



New Generation X12 Server Building Block Solutions®



Intel® 3rd Gen Xeon® Scalable processors (Ice Lake), Intel® Core™ Processors



**UP, DP and MP Serverboards
Enterprise Server/Storage Chassis
Twin Multi-Node, Ultra, GPU, WIO, Workstations,
and IoT/Embedded Application Optimized Solutions**



**Storage (NVMe, 12Gb/s SAS3 & 6Gb/s SATA3), Intel® Optane™ DC Persistent Memory
Networking (100G/40G/25G/10G Ethernet, InfiniBand EDR/FDR and Omni-Path) & Rack Systems
System Management & Security, 96%+ Titanium Level Power, Plus Much More ...**

June 2021



INTRODUCING SUPERMICRO X12 GENERATION



Better

Better Performance
Per Watt and Per Dollar

Faster

40%-60% Better Performance
on Cloud Workloads

Greener

Reduced Environmental
Impact & Lower TCO



OPTIMIZED SYSTEMS FOR YOUR WORKLOAD

- Over 100 Building Block Optimized Designs
- Maximum Processor, Memory and I/O Performance
- Max Performance, High Volume Cloud, High Efficiency Multi- Node, Mainstream

OPEN ARCHITECTURES

- OpenBMC, OCP v3.0 SFF Cards
- New Supermicro AIOM Cards Provide I/O Flexibility with OCP Superset

SECURE

- Enhanced Security with Hardware Root of Trust, Total Memory Encryption, Software Guard Extension

MANAGEABLE & SERVICEABLE

- New Web Management Interface
- Tool-less Designs
- Global Service & Support
- Performance, High Volume Cloud, High Efficiency Multi- Node, Mainstream

FIRST-TO-MARKET WITH MAXIMUM PERFORMANCE

- Thermal Capacity Supports Highest Clock Speeds
- Support for Full Memory Configuration and Bandwidth

CPU & MEMORY

- On Average 62% Better Performance on Network and 5G Workloads
- Web (Crypto) Acceleration
- DDR4-3200MHz
- 1.6x Memory Bandwidth
- 2.66x Memory Capacity

I/O

- PCI-E 4.0
- 2x I/O Bandwidth

SUPERBLADE®:

- Advanced Networking with 200G InfiniBand Switch, and up to 4x 25GbE Switches

BEST-IN-CLASS WORKLOAD PERFORMANCE

- Market-Leading GPU Servers for AI/ML and HPC

MAXIMUM POWER EFFICIENCY

- Both Free Air and Water Cooled
- Titanium-Level (96%) Power Supplies

MULTI-NODE SYSTEMS

- 15-20% Lower Power Costs with Optimized Shared Resource Designs

LONGEVITY

- Multi-Generation Infrastructure for up to 65% CAPEX Savings

SYSTEM REFRESH

- Modular Upgrades for Maximum Performance and Efficiency
- Select Component Refresh Reduces e-Waste

X12 BIGTWIN[®]

Leading Multi-Node Architecture

3rd Gen Intel® Xeon® Scalable processors Dual Socket
LGA-4189 (Socket P+) supported, CPU TDP supports Up to
270W TDP

Up to 4TB DDR4-3200MHz

Up to 2TB Intel® Optane™ Persistent Memory 200 Series

1 PCI-E 4.0 x16 Left Riser Slot,
1 PCI-E 4.0 x16 Right Riser Slot

1 PCI-E 4.0 x8 connector for Supermicro add-on cards,
1 PCI-E 4.0 x40 Proprietary Storage Slot,
1 PCI-E 4.0 x16 AIOM Networking Slot,
1 PCI-E 4.0 x8 M.2 Slot



X12DPT-B6

2U 4-Node BigTwin



SYS-620BT-H Series

3x 3.5" NVMe/SAS/SATA per node

2U 4-Node BigTwin



SYS-220BT-H Series

6x 2.5" NVMe/SAS/SATA per node

2U 2-Node BigTwin



SYS-620BT-D Series

6x 3.5" NVMe/SAS/SATA (per node)

2U 2-Node BigTwin



SYS-220BT-D Series

12x 2.5" NVMe/SAS/SATA per node

Highly Modular Multi-Node Systems with Tool-Less Design

Supermicro X12 BigTwin systems provide superior performance and serviceability with dual 3rd Gen Intel® Xeon® Scalable processors per node and hot swappable tool-less design

Superior modular mid-plane design with PCI-E Gen 4 Storage Controller Options

Multi-node BigTwins with shared components can be more cost effective than standard 1U servers.

Key Applications

- HCI
- HPC
- CDN
- Hybrid Cloud, Container-as-a-Service
- Cloud Computing
- Big Data Analytics
- Back-up and recovery
- Scale-Out Storage

X12 ULTRA AND ULTRA-E

High Performance & Flexible Systems for Enterprise Applications

Ultra-E: Optimized for 5G and Telco

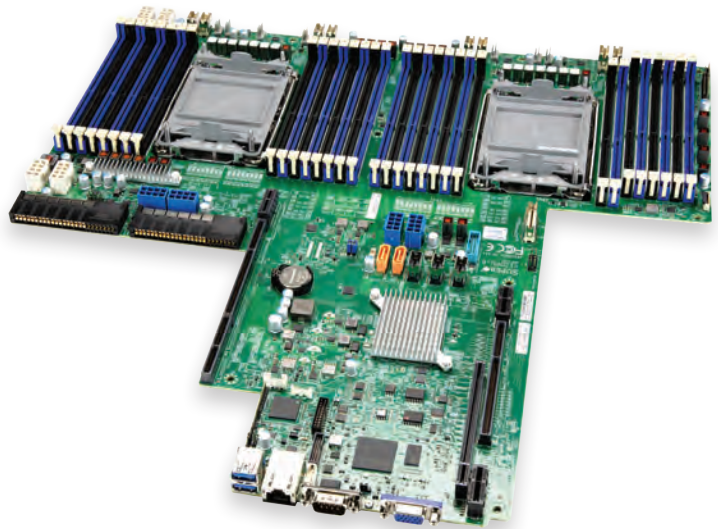
All Flash NVMe Hybrid Storage Options*

1U 12 Hybrid: (6 from CPU1, 6 from CPU2);
1U 4 Hybrid: (2 from CPU1, 2 from CPU2);
2U 22 Hybrid: (10 from CPU1, 12 from CPU2);
2U 6 Hybrid: (4 from CPU1, 2 from CPU2);
2U 12 Hybrid: (6 from CPU1, 6 from CPU2)

Flexible I/O Expansion Slots: (Balanced across both CPUs)

1U: 2 PCI-E 4.0 x16 slot, 1 PCI-E 4.0 x16 slot (LP), 1 PCI-E 4.0 x16 slot (internal LP)

2U: 1 PCI-E 4.0 x16 slot, 5 PCI-E 4.0 x8 slots, 1 PCI-E 4.0 x16 slot (LP), 1 PCI-E 4.0 x8 slot (internal LP)



X12DPU-6

2U Ultra-E



SYS-220U-MTNR
6x 2.5" NVMe/SAS/SATA

2U Ultra



SYS-220U-TNR
22x 2.5" NVMe/SAS/SATA +
2x 2.5" SAS/SATA

2U Ultra



SYS-620U-TNR
12x 3.5" NVMe/SAS/SATA

1U Ultra



SYS-120U-TNR
12x 2.5" NVMe/SAS/SATA

1U Ultra



SYS-610U-TNR
4x 3.5" NVMe/SAS/SATA

Highest Performance X12 Ultra and Ultra-E Servers

The Ultra servers provide modular components for building application optimized solutions from streamlined base models. The Ultra-E server targets the Telco space, which is ideal for 5G networks and edge applications that require local processing. The Ultra server provide highest performance and flexibility for enterprise applications optimized for the best performance per dollar.

Best-in-class server features including all NVMe, hybrid storage and low latency optimization. Ultra Servers feature an uncompromised performance design with 2 CPU sockets optimized for supporting the highest processor TDPs and 32 DIMMs.

Key Applications

- Enterprise Server
- Hyper-converged Storage
- Virtualization
- AI Training/Inferencing
- Big Data Analytic
- Cloud Computing
- CDN
- In-memory Database

X12 CLOUDDC

All-in-one Rackmount Platform for Cloud Data Centers

Dual socket with highest TDP support Architecture

16x DIMM, ECC DDR4 designed for up to 3200Mhz

14x SATA3 (SlimSAS x8 and x4 + 2 SuperDOM)

12x PCI-E 4.0 NVMe ports

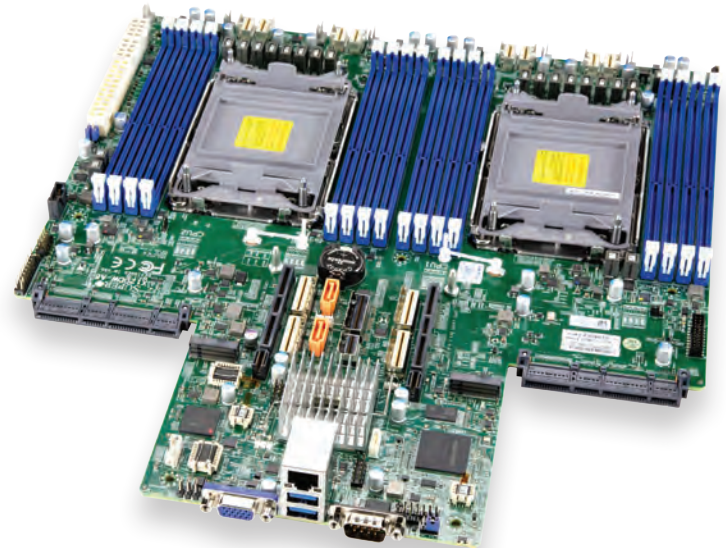
4x USB (2x3.0 rear + 2x2.0 front headers)

Standard e-ATX form factor

Dual AIOM (OCP 3.0 compatible) for networking

BMC AST2600 with dedicated LAN and VGA

1x VGA, 1x COM and 1x Dedicated IPMI por



X12DDW-A6

High Density Cloud Storage



SYS-620C-TN12R
2U CloudDC with
12x 3.5" NVMe/SAS/SATA drives

Compact Cloud Compute



SYS-120C-TN10R
1U CloudDC with
10x 2.5" NVMe/SAS/SATA drives

General Purpose Balanced



SYS-120C-TR
1U CloudDC with
8x 2.5" SAS/SATA drives

Compact Storage Optimized



SYS-610C-TR
1U CloudDC with
4x 3.5" SAS/SATA drives

All-in-one rackmount platform for Cloud Data Centers

Tool-less Mechanical Design for Rapid Cloud Deployment and Easy Maintenance.

Featuring flexible I/O and storage with 2 or 4 PCI-E 4.0 x16 slots and dual AIOM (OCP 3.0 compliant) slots for maximum data throughput, X12 CloudDC is designed for easy serviceability with tool-less brackets, hot-swap drive trays and redundant power supplies that help enable rapid deployment and more efficient maintenance in data centers.

Redundant high-efficiency Platinum/Titanium Level power supplies ensure resiliency and a lower carbon footprint.

Rich Security Features include: TPM 1.2/2.0, signed firmware, Silicon Root of Trust, Secure Boot, System Erase, Runtime FW protection, FIPS Compliance, and Trusted Execution Environment.

Key Applications

- Cloud Computing
- Web Servers
- Hyper-converged Storage
- Virtualization
- File Servers
- Head-node Computing
- 5G Telco AI Inferencing

X12 SUPERBLADE®

Highest Density x86 Multi-Node Server for Enterprise, Cloud, HPC Applications

8U SuperBlade®



SBE-820H/C/J/L-822/622/422

- Up to 20 hot-pluggable nodes in 8U
- Optimized for performance and advanced networking
- Integrated 200G HDR InfiniBand with non-blocking switch

6U SuperBlade®



SBE-610J-822/622/422

- Up to 10 hot-pluggable nodes in 6U
- Performance and memory optimized architecture

4U SuperBlade®



SBE-414J-422/222

- Up to 14 hot-pluggable nodes in 4U
- Optimized for performance, density and value

8U SuperBlade® /
20 DP Nodes in 8U



SBI-420P-1C2N

2 SAS/NVMe



SBI-420P-1T3N

3 SATA or 2 NVMe



OEM SKU*
with liquid cooling option

2 SATA/NVMe

6U SuperBlade® /
10 UP or DP Nodes in 6U



SBI-610P-1C2N

2 SAS/NVMe



SBI-610P-1T2N

2 SATA/NVMe



SBI-620P-1C3N

3 SAS or 2 NVMe



SBI-620P-1T3N

3 SATA/NVMe



SBI-420P-4T2N

2 SATA/NVMe

Coming Soon!

Resource Saving Architecture

Highest Density x86 Multi-Node Server for Enterprise Cloud, HPC Applications with three new Intel® 3rd Generation Xeon® Scalable Processor SuperBlade servers. A 2-socket blade for the 8U enclosure and a single socket and dual-socket blade for the 6U enclosure.

A shared cooling, power and networking infrastructure is key to the high density and server efficiency offered by blade solutions. Supermicro's high performance, density optimized, and energy-efficient.

In particular, Supermicro's new generation blade product portfolio has been designed to optimize the TCO of key components for today's datacenters, such as free-air cooling, power efficiency, node density and networking management.

Key Applications

- HPC
- Hybrid Cloud
- EDA
- Virtualization
- Health
- Financial Services

* Contact Supermicro for more information

X12 GPU

High Performance and Flexibility for AI/ML and HPC Applications

1U, 4U and Tower Form Factors

Up to 8/4 GPUs Support

Highest Density and Efficiency

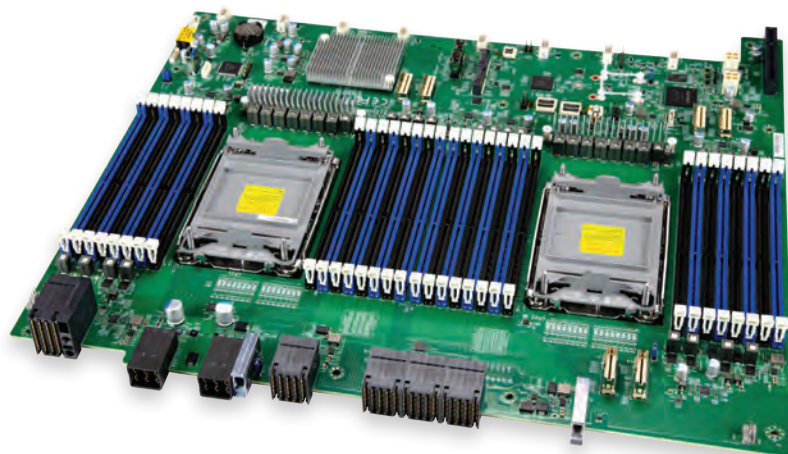
Application Optimized

3rd Gen Intel® Xeon® Scalable Processors,
Dual Socket LGA-4189 (Socket P+) 270W TDP

Up to 4TB 3DS ECC RDIMM, DDR4-3200MHz

6 PCI-E 4.0 x16, 1 PCI-E 4.0 x8 (in x4 slot)

Dual LAN with Intel® X550 10GBase-T
Ethernet Controller



X12DGO-6
4U HGX A100 8-GPU
High Density 4U System with NVIDIA® HGX™ A100 8-GPU

4U 10-GPU



X12DPG-OA6
Up to 10 double width, full length GPUs

4U 4-GPU



X12DPG-QT
Up to 4 Double Width GPUs

2U 6-GPU



X12DPG-AR
Up to 6 double width GPUs

1U 4-GPU



X12DGQ-R
Up to 4 Double Width GPUs

Maximum Acceleration and Cost Efficiency for High Performance Applications

The Supermicro GPU serverboards are designed to generate massive parallel processing power and deliver unrivaled flexibility to intense workloads.

These Supermicro GPU serverboards deliver the maximum processing acceleration for the most compute intensive workloads in the smallest physical dimensions. With support for the very latest 270W DP processors and up to 4 GPU in 1U, these powerful Supermicro GPU serverboards help customers to create the most optimized solutions for their supercomputing needs.

Supermicro's powerful GPU serverboards are optimized for HPC, Medical Imaging, Oil and Gas simulation, Computational Finance, Science and Engineering, Machine Learning, Deep Learning, AI, and Media/Entertainment.

Key Applications

- AI/ML
- Deep Learning Training and Inference
- High-performance Computing (HPC)
- Rendering Platform for High-end Professional Graphics
- Best-in-Class VDI Infrastructure Platform

X12 COST-EFFECTIVE /MAINSTREAM

Highest Density and Flexibility, Optimized Cost-Effectiveness, and Exceptional Energy Efficiency

Cost-effective 2U rackmounts and tower form-factors

Support 3rd Gen Intel® Xeon® Scalable processor, up to 270W TDP

Optimized thermal design for higher performance

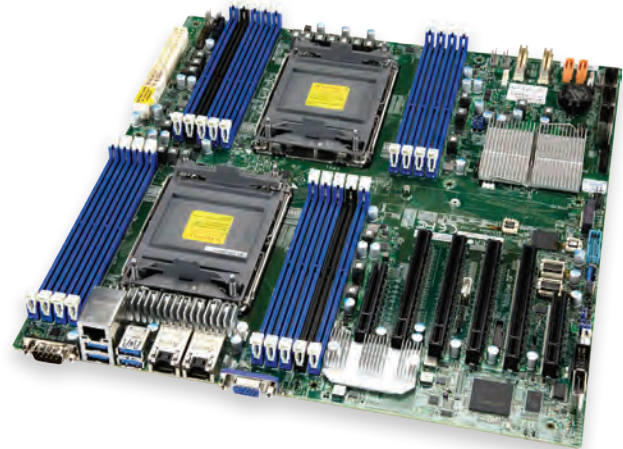
Up to 16 DRAM DIMMs + 2 PMem (Intel® Optane™ PMem 200 Series)

Up to 6 PCI-E 4.0 expansion slots without riser cards;
Up to 2 PCI-E x16 and 1 PCI-E x8 from CPU 1;
Up to 2 PCI-E x16 and 1 PCI-E x8 from CPU 2

On-board networking options 2x 10G or 2x 1G Ethernet

Redundant AC Titanium (96%) Level Power Supplies

High Performance



X12DPI-N6

DP Mainstream



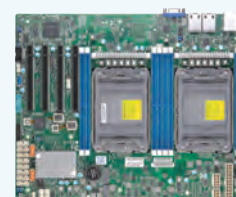
X12DPI-N6

Cost-effective All Purpose Tower



X12SPO-F

Dual ICX CPU with up to 32-core, 185W TDP support



X12DPL-i6/NT6

Powerful & Cost-Effective Entry-Class Serverboards

The Mainstream Application Optimized serverboards from Supermicro are designed for entry level or high-volume server deployments. Customers can choose the exact model, with a precise set of onboard features needed for their applications, from a selection of multi-form factor Supermicro servers. These serverboards enable customers to save significant amounts on CAPEX and OPEX thanks to Supermicro's energy-efficient serverboard designs.

The Supermicro Application Optimized SuperServer® product family supports a wide variety of mainstream server applications, including General Purpose Data Center Servers, Web Servers, and Enterprise/Workgroup Server Systems.

Key Applications

- General Purpose Data Center Servers
- Web Hosting
- Enterprise/Workgroup Server Systems
- Video Surveillance
- SMB

X12 STORAGE

Application-optimized High-Performance Storage Solution

New generation top-loading server optimized for field serviceability and field replacement.

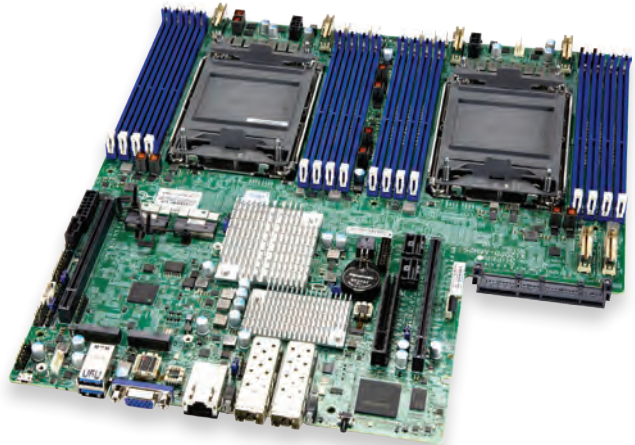
PCIe 4.0 storage controller with Hardware RAID and IT mode

Tool-less Hot-swappable drive bays supporting 3.5" and 2.5" media

Flexible mix of hybrid HDD and SSD drive bays for best performance and TCO

Superior pullout drive drawer design.

Hot swappable nodes, expanders, drives, power supplies and fans.



X12DPD-A6M25



X12DPD-A6M25



X12DPI-NT6



X12DSC-6



X12SPI-TF



X12SPO-NTF



CSE-947SE1C-R1K66JBOD
60x 3.5" 4U Top Loading SAS/SATA
12Gb/s Hot Swapping HHD/SSD



CSE-947SE2C-R1K66JBOD
60x 3.5" 4U Top Loading SAS/SATA
12Gb/s Hot Swapping HHD/SSD



CSE-947HE1C-R2K05JBOD
90x 3.5"/2.5" 4U Top Loading SATA 6Gb/s
/ SAS3 12Gb/s Hot Swappable Single-
Path Storage Enclosure



CSE-947HE2C-R2K05JBOD
90x 3.5"/2.5" 4U Top Loading SAS3
12Gb/s Hot-Swappable HDDs
Dual-path Storage Enclosure

High Density Storage

Extreme High Density and High Capacity Storage Chassis Top Loading Storage Chassis

Support the latest X12 generation motherboards and 3rd Generation Intel® Xeon® Scalable processors

Hot-swappable tool-less Modular Design for Easy Service and Easy Maintenance

Up to Titanium Level (96%) High-Efficiency Power Supplies

Ideal for Cloud backup, Data Replication or High Density Archive Storage Applications

Key Applications

- Object Storage
- Data Intensive HPC/AI
- Private & Hybrid Cloud
- Backup & Active Archive

X12 HYPER-E AND HYPER

Best-in-class Performance and Flexibility Rackmount Server

Dual Processors

32 DIMM slots for maximum memory capacity

PCI-E 4.0 device support with an architecture design

Optimized to support future PCI-E 5.0 devices

All-Flash NVMe storage

200G networking support

2U Hyper-E: Optimized for 5G and Telco



X12DHM-6

2U Hyper-E
Optimized for 5G and Telco



SYS-220HE-FTNRD

6x 2.5" NVMe/SAS/SATA drives,
Short-Depth, Front I/O,
NEBS Level 3, DC -48V redundant
power (shown), AC also available.

2U Hyper-E
Optimized for 5G and Telco



SYS-220HE-FTNR

6x 2.5" NVMe/SAS/SATA drives,
Short-Depth, Front I/O,
with DC power options

2U Hyper
Optimized for Storage Performance



SYS-220H-TN24R

24x 2.5" NVMe/SAS/SATA drives

2U Hyper
Optimized for Storage Capacity



SYS-620H-TN12R

12x 3.5" NVMe/SAS/SATA drives

1U Hyper
Compute & Storage Powerhouse



SYS-120H-TNR

12x 2.5" NVMe/SAS/SATA drives

Ultimate Performance & Configurability for Enterprise and Telco Applications

The all-new Hyper series represents the latest generation of Supermicro rackmount servers built with the highest performance features to take on the most demanding workloads along with the storage & I/O flexibility that provide a custom fit to your application needs.

2U Hyper-E Short-depth with Rear I/O and 1U Hyper with front I/O configurations.

Telco optimized configurations include short depth, carrier grade (NEBS Level 3) Hyper-E servers with AC & DC power options.

Maintenance-friendly design innovations eliminate the need for tools when servicing the system.

Key Applications

- 5G Core and Edge
- Telecom Micro Data Center
- Enterprise Server
- Cloud Computing
- Big Data Analytics
- Hyperconverged Storage
- AI Inference and Machine Learning
- Network Function Virtualization

X12 FATTWIN®

Advanced Multi-node 4U Twin Architecture with 8 and 4 Nodes

Optimized for High Density Compute

Modular Front-accessible for building
Application-optimized Solutions

Highly configurable 4U 8-node and 4-node
systems

Front accessible service design for cold-aisle
serviceability

Hot-swappable drive bays – interchangeable
NVMe, SAS or SATA

Better thermal with new optimized airflow
designs for up to 165W processors

Dual 3rd Gen Intel® Xeon® Scalable
processors up to 270W and 16 DIMM slots



X12DPFR-AN6

4U 8-Node
Optimized for High Density Compute



SYS-F610P2-RTN

4U 4-Node
Optimized for High Density Compute



SYS-F620P3-RTBN

Innovative Twin Architecture to Maximize Serviceability and Reliability

The FatTwin® architecture provides flexibility and system accessibility for unique data center requirements.

Unique one-half width nodes provide for 2 nodes per rack unit, which allows for modularized left and right nodes with redundant power supplies for maximum reliability.

These highly modular multi-node systems feature a tool-less design, and each node supports dual 3rd Gen Intel® Xeon® Scalable processors for improved performance.

Key Applications

- Hyperscale / Hyperconverged
- Cloud Optimized Servers
- Data Center Enterprise Applications
- Scale out of Storage expansion
- Telco Data Center & ETSI certified
- Virtualization Server

X12 TWINPRO®

Cost-effective 2U Multi-node Platforms

4 DP Nodes in 2U

Dual socket support with TDP up to 185W

16 DIMM slots for up to 4TB ECC RDIMM/
LRDIMM DDR4-3200MHz

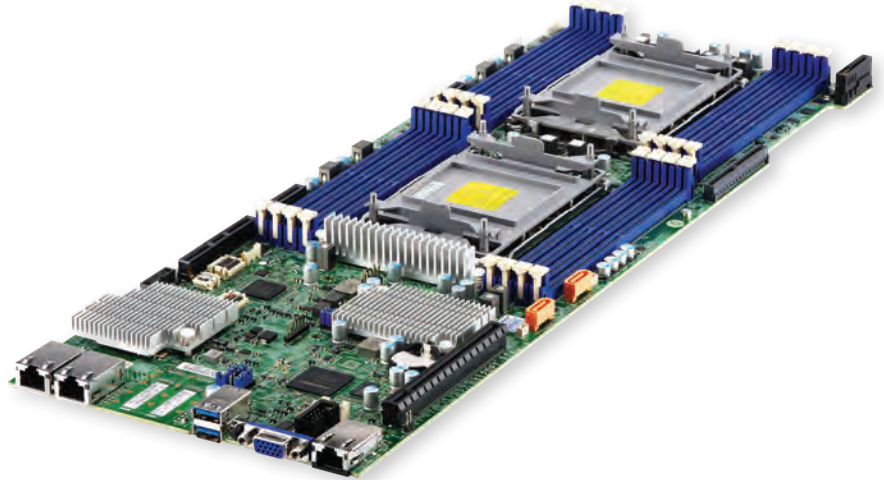
Up to 6 hot-swappable SAS/SATA and 2
internal M.2 NVMe SSDs per node

2200W redundant power supply. Optional
DC power supplies are available

Optimized for both DP and UP

Dual 10GbE ports onboard

Aspeed AST2600 BMC with
HW Root of Trust



X12DPT-PT6

2U 4-Node



SYS-220TP-HTTR / HCOTR / HC1TR

6x 2.5" SAS/SATA and 2x M.2 NVMe drive bays per node

2U 4-Node



SYS-620TP-HTTR / HCOTR / HC1TR

3x 3.5" SAS/SATA and 2x M.2 NVMe drive bays per node

Cost-Effective 2U 4-Node Rackmount Server

Cost-Effective 2U 4-Node Rackmount Server TwinPro® systems are designed for simplified deployment and maintenance, and are assembled with the highest quality to ensure continuous operation even at maximum capacity.

In addition, these 4-node systems feature an optimized thermal design for maximum power efficiency

Key Applications

- Enterprise Mission-critical Applications
- Data Center Cloud Computing
- HPC
- Virtualization
- Big Data
- Financial Analysis

X12 MP 4-WAY SERVER

Highest Performance and Flexibility for Enterprise Applications

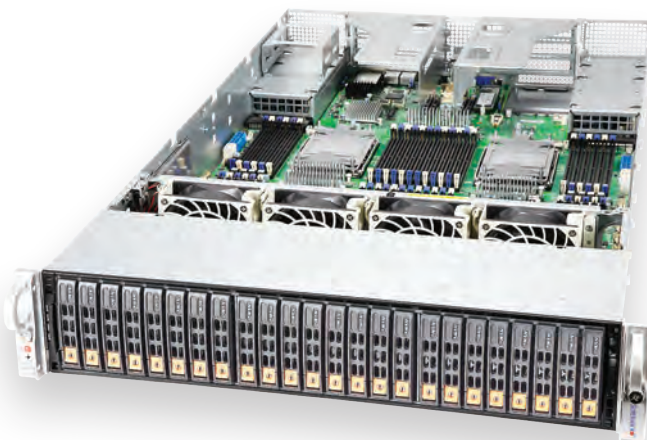
Large memory footprint for up to 18TB

All hybrid hot-swappable drive bays - NVMe, SAS, or SATA

Supports 3rd Gen Intel® Xeon® Scalable (Cooper Lake) processors

Support for PCI-E 3.0 for network interface cards

SAP HANA Certified System – SAP HANA 1.0 SPS 12, SAP HANA 2.0



SYS-240P-TNRT
24x 2.5" NVMe/SAS3/SATA3 drive bays,
48 DIMM slots, up to 18TB



X12QCH+

Highest Performance and Flexibility

These new 2U server delivers new levels of compute performance and flexibility with support for 3rd Gen Intel® Xeon® Scalable processors.

This dynamic storage platform supports direct-attached full-hybrid all NVMe for lower latency and higher throughput and IOPS with up to 24x 2.5" hybrid NVMe/SAS3/SATA3 drive bays.

In addition, the flexible on-board networking with up to dual 10GBase-T and dual SFP+ ports enables cost-effective data communications.

Key Applications

- Artificial Intelligence (AI)
- Business Intelligence
- ERP
- CRM
- Scientific Virtualization
- In-Memory Database
- HCI
- SAP HANA

X12 SUPERWORKSTATIONS

Workstations for High Performance Workloads

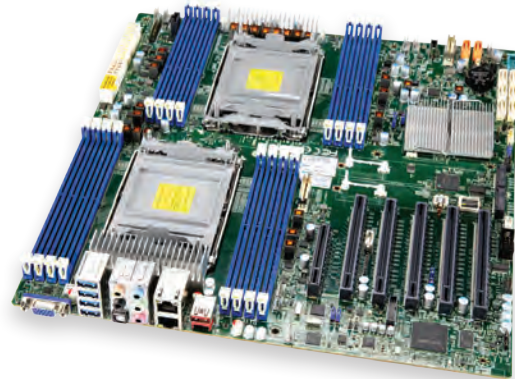
Mid-tower and 4U tower with support for 3rd Gen Intel® Xeon® Scalable processors

Mid-tower with up to 4 internal 3.5" SATA drives and 2 onboard M.2 slots, optional 4x 2.5" drive carrier (for total of 8 drives) and optional NVMe drive support

4U tower with 8 hot-swappable 3.5"/2.5" SATA drive bays and 2 onboard M.2 slots, optional SAS and NVMe drive support



SYS-740A-T
4U Tower, 8x 3.5"/2.5" SATA drives



X12DAI-N6

Server-grade workstations for high-performance workloads

Supermicro's SuperWorkstations are optimized for applications requiring powerful compute and graphics capabilities.

These systems support the latest Intel® Xeon® Scalable processors and multiple NVIDIA GPUs to boost productivity and creativity for professional artists, designers, and engineers across industries such as manufacturing, media and entertainment, and energy.

SuperWorkstation server-grade features include hot-swap storage bays, IPMI, and redundant Titanium-level power supplies.

Key Applications

- Rendering
- CAD
- Multimedia Digital Content Creation
- Engineering/Scientific Research

X12 WIO

Industry's Widest Variety of I/O Optimized Servers

Cost-effective systems supporting
up to 6 PCI-E 4.0 devices

Hot-swappable 2.5" or 3.5" SATA3 storage

Onboard dual 10 Gigabit Ethernet

Optional support for up to 4 NVMe storage
drives

3rd Gen Intel® Xeon® Scalable processors up
to 270W and 8 DIMM slots



X12SPW-TF

2U UP WIO



SYS-520P-WTR

2U 8x 3.5" SATA / option for 2 NVMe
drives / Redundant power

1U UP WIO



SYS-110P-WTR

1U 10x 2.5" SATA /
option for NVMe drives

1U UP WIO



SYS-510P-WT

1U 4x 3.5" SATA /
option for 4 NVMe drives

1U UP WIO



SYS-510P-WTR

1U 4x 3.5" SATA / option for 4 NVMe
drives / Redundant power

Supermicro WIO SuperServer®

Supermicro WIO systems offer a wide range of I/O options to deliver truly optimized systems for specific requirements. Users can optimize the storage and networking alternatives to accelerate performance, increase efficiency and find the perfect fit for their applications.

In addition to enabling customizable configurations and optimization for multiple application requirements, Supermicro WIO SuperServers® also provide attractive cost advantages and investment protection.

Key Applications

- Enterprise Applications
- Networking Appliance
- Firewall / Security Appliances
- General Purpose Computing
- Cloud Computing
- Media Entertainment

X12 IoT/EMBEDDED

High-efficiency, High-performance Portfolio with Compact Form Factors and Long Life Cycle

3rd Gen Intel® Xeon® Scalable processors,
Single Socket LGA-4189 (Socket P+)
supported, CPU TDP supports Up to 270W
TDP

Up to 2TB DDR4-3200MHz; Up to 2TB Intel®
Optane™ Persistent Memory 200 Series, in 8
DIMM slots

Dual LAN with 10GBase-T with Intel® X550

PCI-E 4.0



X12SPW-TF

2U UP WIO / Embedded



X12SPM-LN6TF

2U Compact



SYS-210P-FRDN6T

Ultra short depth, 2U Front I/O

1U Embedded



SYS-110P-FDWTR

1U Front I/O, Front DC PSU

1U UP WIO / Embedded



X12SPW-TF

1U Embedded



SYS-110P-FRDN2T

1U Front I/O, Rear DC PSU

1U Embedded



SYS-110P-FRN2T

1U Front I/O, Rear AC PSU

Expanding our Product Portfolio to address 5G, Edge Computing, and Emerging IoT Systems

High-efficiency, High-performance Portfolio With Compact Form Factors. Supermicro provides innovative and first-to-market technologies that are the building blocks for today's embedded computing platforms. Rapid growth in embedded markets and open standards are driving need for higher levels of product integration and optimization through virtualization, AI inferencing, expanding I/O and device-to-device communications using space and power efficient configurations.

Supermicro's family of high-performance embedded products are optimized for a wide range of applications and solutions. Supermicro offers many flexible and customized solutions for critical OEM projects, as well as advanced designs for stringent environments, firmware customization, BOM enhancements and a wide range of legacy IO support

Key Applications

- Multi-Access Edge Computing
- Outdoor DU of 5G Application
- Open-RAN

SUPERCLOUD COMPOSER

Your Gateway to Compose Disaggregated Infrastructure Quickly and Effortlessly

SuperCloud Composer is a composable cloud management platform that provides a unified dashboard to administer software-defined data centers.

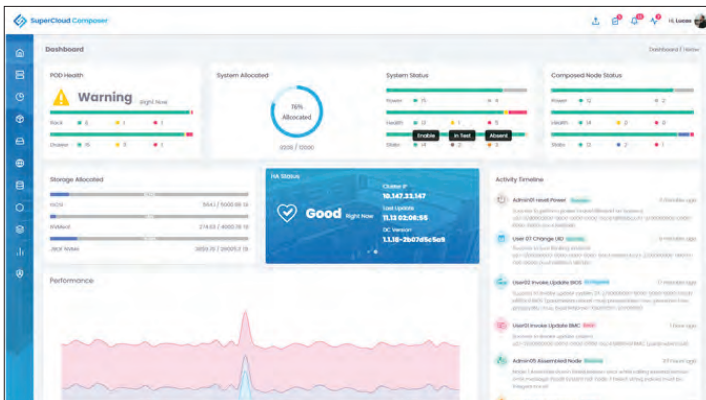
Supermicro's cloud infrastructure management software brings speed, agility, and simplicity to IT administration by integrating data center tasks into a single intelligent management solution.

Our robust composer engine can orchestrate cloud workloads through a streamlined industry standard Redfish API.

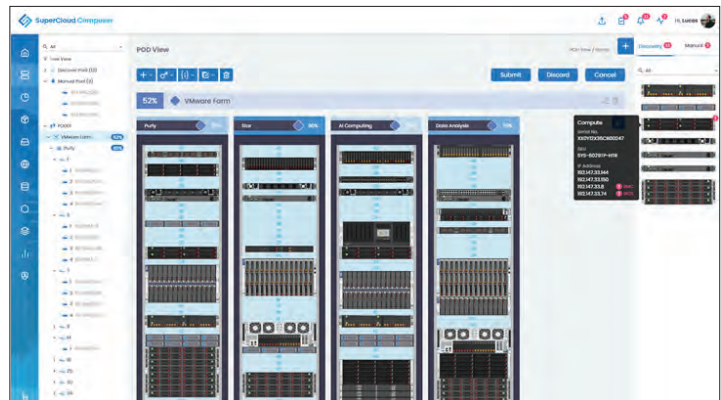
SuperCloud Composer monitors and manages the broad portfolio of multi-generation Supermicro servers and third-party systems through its data center lifecycle management feature set from a single unified console.



Benefits	Features
Cost Savings - Capital Expenditure (CapEx), Operating Expense (OPEX)	- Expands on optimized Supermicro building block solutions - Third Party Vendor Support
Intelligent Data Center Management	- Call Home Management - POD & Rack-level Management (including ToR switch) - Asset Management (Monitoring, Updates)
Frictionless Deployments	- Zero Touch Provisioning for Network Configuration - Hardware Life Cycle Management for Software Define Data Center - Northbound Redfish APIs provides seamless Integration
Dynamically Configured Servers	Zero Touch OS Deployment in Seconds
Device Scaling of Resources	- Monitor/Manage Resource Pools in a Composable Disaggregated Infrastructure - Software Defined Node Composer - Expands storage and accelerators capacities to existing compute nodes - Support for 3rd party devices expands available resource selection
Unified End User Experience Data Driven Decisions	- Single Pane of Glass for Data Center Deployment - Rich Analytics & Telemetry
Compliance & Governance	(SoT) Manage Silicon Root of Trust - SSL Security Compliance - User Define Role Based Access Control



Dashboard aggregates the view of POD health, visualized system data analytics, activity event timeline tracking, providing at-a-glance awareness of data center operations, as well as detailed system status, composed node status, and allocated storage

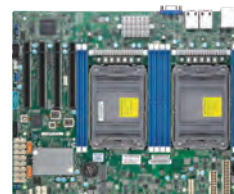
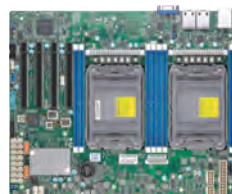


The POD View's rack management solution provides flexibility to organize data center requirements based on common workloads assigned to a rack deployment either at the edge or physical appliances with a Data Center that are miles away

3rd Gen
Intel® Xeon®
Scalable
processors
Supported



NEW! X12 MAINSTREAM



MODEL	X12DPi-N6	X12DPi-NT6	X12DPL-i6	X12DPL-NT6
Processor	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 185W TDP, 2 UPI up to 10.4 GT/s	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 185W TDP, 2 UPI up to 10.4 GT/s
Chipset	Intel® C621A	Intel® C621A	Intel® C621A	Intel® C621A
Form Factor	E-ATX, 12" x 13" (30.48cm x 33.02cm)	E-ATX, 12" x 13" (30.48cm x 33.02cm)	ATX, 12.23" x 10" (31.06cm x 25.4cm)	ATX, 12.23" x 10" (31.06cm x 25.4cm)
Optimized Chassis	● SC213BAC8-R1K23LPB ● SC826BAC12-R1K23LPB ● SC825BTQC-R1K23LPB 2U Heatsink: SNK-P0078PC (Front) 2U Heatsink: SNK-P0078P (Rear) ● SC745BAC-R1K23B 2U Heatsink: SNK-P0078P	● SC213BAC8-R1K23LPB ● SC826BAC12-R1K23LPB ● SC825BTQC-R1K23LPB 2U Heatsink: SNK-P0078PC (Front) 2U Heatsink: SNK-P0078P (Rear) ● SC745BAC-R1K23B 2U Heatsink: SNK-P0078P	SCLA25TQC-R609LP	SCLA25TQC-R609LP
Memory Capacity & Slots	Up to 4TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 4TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 18 DIMM slots P1-DIMMB2 and P2-DIMMB2 are reserved for Intel Optane Persistent Memory 200 Series only.	Up to 4TB RDIMM, DDR4-3200MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 4TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 18 DIMM slots P1-DIMMB2 and P2-DIMMB2 are reserved for Intel Optane Persistent Memory 200 series only.	Up to 2TB RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz, in 8 DIMM slots	Up to 2TB RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz, in 8 DIMM slots
Expansion Slots	2 PCI-E 4.0 x8, 4 PCI-E 4.0 x16, 2 PCI-E 4.0 NVMe x8 Internal Port(s) M.2 Interface: 1 PCI-E 4.0 x4 M.2 Form Factor: 2280/22110 M.2 Key: M-Key	2 PCI-E 4.0 x8, 4 PCI-E 4.0 x16, 2 PCI-E 4.0 NVMe x8 Internal Port(s) M.2 Interface: 1 PCI-E 4.0 x4 M.2 Form Factor: 2280/22110 M.2 Key: M-Key	4 PCI-E 4.0 x16 M.2 Interface: 2 PCI-E 4.0 x4 M.2 Form Factor: 2280/22110, 2280 M.2 Key: M-Key	4 PCI-E 4.0 x16, 1 PCI-E 4.0 NVMe x8 Internal Port(s) M.2 Interface: 2 PCI-E 4.0 x4 M.2 Form Factor: 2280/22110, 2280 M.2 Key: M-Key
Onboard RAID Controller	Intel® C621A controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621A controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621A controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621A controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with Intel® i350 Gigabit Ethernet Controller	Dual LAN with 10GBase-T with Intel® X550	Dual LAN with Intel® i210 Gigabit Ethernet Controller	Dual LAN with Intel® X550 10GBase-T Ethernet Controller
Onboard VGA	2 VGA (1 rear bezel, 1 front panel) ports,	2 VGA (1 rear bezel, 1 front panel) ports,	1 VGA port, ASPEED AST2600 BMC	1 VGA port, ASPEED AST2600 BMC
USB Ports	2 USB 2.0 ports (2 via headers) 7 USB 3.2 Gen1 ports (4 rear + 2 via headers + 1 Type A)	2 USB 2.0 ports (2 via headers) 7 USB 3.2 Gen1 ports (4 rear + 2 via headers + 1 Type A)	5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)	5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)
Other Onboard I/O Devices	TPM 2.0 Header 2 COM Ports (1 rear, 1 header)	TPM 2.0 Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM 2.0 Header 1 COM Port (1 header)	2 ports SuperDOM TPM 2.0 Header 1 COM Port (1 header)
Manageability	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, 3.3V standby, 8 -fan status, Chassis intrusion header, CPU temperature, LAN temperature, Memory temperature, Memory Voltages, Monitors CPU voltages, PCH temperature, System temperature, VBAT, VRM temperature	+12V, +3.3V, +5V, +5V standby, 3.3V standby, 8 -fan status, Chassis intrusion header, CPU temperature, LAN temperature, Memory temperature, Memory Voltages, Monitors CPU voltages, PCH temperature, System temperature, VBAT, VRM temperature	+12V, +3.3V, +5V, +5V standby, 3.3V standby, 8 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V standby, 3.3V standby, 8 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility
Other Features	ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, NCSI header, Node Manager Support, RoHS, RoT, SDDC, UID, WOL	ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, NCSI header, Node Manager Support, RoHS, RoT, SDDC, UID, WOL	ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, NCSI header, Node Manager Support, RoT, UID	ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, NCSI header, Node Manager Support, RoT, UID
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

NEW! X12 DP SERVERBOARDS

3rd Gen
Intel® Xeon®
Scalable
processors
Supported



Workstation



WIO



MODEL	X12DAi-N6	X12DDW-A6
Processor	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s
Chipset	Intel® C621A	Intel® C621A
Form Factor	E-ATX, 12" x 13" (30.48cm x 33.02cm)	Proprietary WIO, 12.288" x 13.404" (31.21cm x 34.05cm)
Optimized Chassis	745BAC-R1K23B-SQ 745BTS-R1K23BP3	- LA15TQC-R860AW - LB16AC10-R860AW - LB13AC2-R860AW - LA26AC12-R1K23AW
Memory Capacity & Slots	Up to 4TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 6TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 16 DIMM slots; Up to 6TB Intel® Optane™ DC Persistent Memory in memory mode.	Up to 4TB RDIMM, DDR4-3200MHz; Up to 4TB LRDIMM, DDR4-3200MHz Up to 4TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz (OC), in 16 DIMM slots
Expansion Slots	5 PCI-E 4.0 x16, 1 PCI-E 4.0 x8, 4 PCI-E 4.0 NVMe x4 Internal Port(s) M.2 Interface: 2 PCI-E 4.0 x4, RAID 0 & 1 M.2 Form Factor: 2280/22110 M.2 Key: M-Key	1 PCI-E 4.0 x16 Left Riser Slot, 1 PCI-E 4.0 x16 Right Riser Slot, 2 PCI-E 4.0 x16 Center Right Hand Slot, 8 PCI-E 4.0 NVMe Internal Port(s) M.2 Interface: 2 PCI-E 2.0 x1 M.2 Form Factor: 2260/2280 M.2 Key: M-Key 2 PCI-E 4.0 x16, AIOM slots Superset of OCP 3.0 Expansion
Onboard RAID Controller	Intel® C621A controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with Intel® i210 Gigabit Ethernet Controller	AIOM for LAN
Onboard VGA	1 VGA D-Sub Connector port, ASPEED AST2600 BMC	1 VGA D-Sub Connector port, ASPEED AST2600 BMC
USB Ports	6 USB 3.2 Gen1 ports (4 rear + 2 via headers) 2 USB 3.2 Gen2 ports (1 Rear Type A)	4 USB 3.1 Gen1 ports (2 rears, 2 via headers)
Other Onboard I/O Devices	7.1 HD Audio TPM 2.0 Header 1 COM Port (1 header)	TPM Header 1 COM Port (1 header)
Manageability	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, SuperDoctor® III, vPro, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, 8 -fan status, CPU, CPU temperature, Memory temperature, Memory Voltages, Monitors CPU voltages, PCH temperature, System temperature, VBAT, VRM temperature	+1.8V PCH, +12V, +5V standby, 6 -fan status, Chassis intrusion header, CPU temperature, CPU thermal trip support, Memory Voltages, Monitors CPU voltages, PCH temperature
Other Features	ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, CPU thermal trip support for processor protection, NCSI header, Node Manager Support, RoHS, RoT, UID, WOL	ACPI power management, ATX Power connector, Chassis intrusion detection, NCSI header, Node Manager Support, RoHS, RoT, UID, WOL
BIOS	AMI UEFI	AMI UEFI

NEW! X12 DP TWIN SERVERBOARDS

(For Complete System Only)

TwinPro®

BigTwin®

FatTwin

3rd Gen
Intel® Xeon®
Scalable
processors
Supported



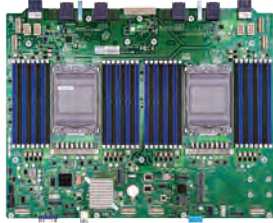
MODEL	X12DPT-PT6 X12DPT-PT46	X12DPT-B6	X12DPFR-AN6
Processor	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 185W TDP, 2 UPI up to 10.4 GT/s	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 165W TDP, 3 UPI up to 10.4 GT/s
Chipset	Intel® C621A	Intel® C621A	Intel® C621A
Form Factor	Proprietary, 6.8" x 18.86" (17.27cm x 47.9cm)	Proprietary Twin, 7.6" x 18.9" (19.3cm x 48.01cm)	Proprietary FatTwin, 8.53" x 19.66" (21.59cm x 48.26cm)
Optimized Chassis	● SC827HQ+-R2K20BP4 ● SC217HQ+-R2K20BP4	--	● F424AS3-R2K20BP ● F418BC3-R2K20BP
Memory Capacity & Slots	Up to 4TB RDIMM, DDR4-3200MHz; Up to 4TB LRDIMM, DDR4-3200MHz Up to 2TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz (OC), in 16 DIMM slots	Up to 4TB RDIMM, DDR4-3200MHz; Up to 4TB LRDIMM, DDR4-3200MHz Up to 2TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 20 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 4TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 16 DIMM slots
Expansion Slots	1 PCI-E 4.0 x16 Left Riser Slot, 1 PCI-E 4.0 x16 Right Riser Slot 1 PCI-E 4.0 x8 Proprietary Storage Slot, 1 PCI-E 4.0 x8 Proprietary Slot	1 PCI-E 4.0 x16 Left Riser Slot, 1 PCI-E 4.0 x16 Right Riser Slot, 1 PCI-E 4.0 x8 connector for SMC add-on cards 1 PCI-E 4.0 x40 Proprietary Storage Slot, 1 PCI-E 4.0 x16 AIOM Networking Slot, 1 PCI-E 4.0 x8 M.2 Slot M.2 Form Factor: 2260/2280/22110 1 PCI-E 4.0 x16	1 PCI-E 4.0 x16 Right Riser Slot, 1 PCI-E 4.0 x8 connector for SMC add-on cards, 3 PCI-E 4.0 NVMe x8 Internal Port(s) 1 PCI-E 4.0 x16, OCP 3.0 compliant
Onboard RAID Controller	Intel® C621A controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	-PT6: Dual LAN with 10Gbase-T -PT46: Dual LAN with 10Gbase-T + Dual LAN with 10G SFP+	Single LAN with Networking options provided via AIOM module	Single LAN with Networking options provided via AIOM module
Onboard VGA	1 VGA port, ASPEED AST2600 BMC	1 VGA port, ASPEED AST2600 BMC	1 VGA port, ASPEED AST2600 BMC
USB Ports	2 USB 3.2 Gen1 ports (2 rear)	2 USB 3.2 Gen1 ports (2 rear)	2 USB 3.2 Gen1 ports (2 rear)
Other Onboard I/O Devices	TPM 2.0 Header 1 COM Port (1 header)	TPM 2.0 Header 1 COM Port (1 header)	TPM 2.0 Header 1 COM Port (1 header)
Manageability	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, NMI, SPM, SSM, SUM, SuperDoctor® 5	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, 5+1 Phase-switching voltage regulator, Memory temperature, Memory Voltages, PCH temperature, VBAT, VRM temperature	+1.8V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), Chipset Voltage, Memory Voltages, Monitors CPU voltages	+1.8V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), Chipset Voltage, Monitors CPU voltages
Other Features	NCSI header, Node Manager Support, RoHS, RoT, UID, WOL	CPU thermal trip support for processor protection, Node Manager Support, RoHS, SDDC, UID, WOL	CPU thermal trip support for processor protection, Node Manager Support, RoHS, SDDC, UID, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

NEW! **X12 DP GPU SERVERBOARDS**
(For Complete System Only)

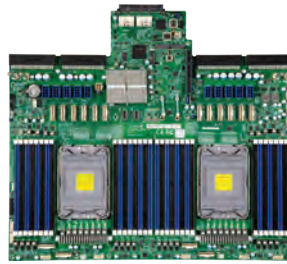
3rd Gen
Intel® Xeon®
Scalable
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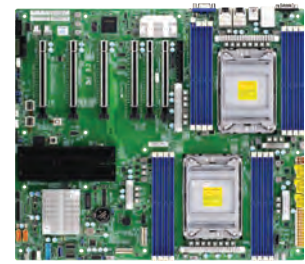
GPU Serverboard



GPU Serverboard



GPU Serverboard
3 UPI, 4 GPUs



MODEL	X12DPG-U6	X12DPG-OA6	X12DPG-QT6
Processor	3rd Gen Intel® Xeon® Scalable processors. Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s
Chipset	Intel® C621A	Intel® C621A	Intel® C621A
Form Factor	Proprietary, 13.98" x 11.81" (35.51cm x 30cm)	Proprietary, 15" x 17" (38.1cm x 43.18cm)	Proprietary, 15.12" x 13.2" (38.4cm x 33.53cm)
Optimized Chassis	--	● SC418G2TS-R4016BP	● SC747BTS-R2K20BP ● SC747BTQ-R2K04B
Memory Capacity & Slots	Up to 8TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 8TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 8GB Unbuffered ECC Intel® Optane™ Persistent Memory 200 Series, DDR4-2933MHz, in 32 DIMM slots	Up to 8TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 8TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 8GB Unbuffered ECC Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 32 DIMM slots	Up to 4TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 6TB Intel® Optane™ Persistent Memory 200 Series, in 16 DIMM slots; Up to 6TB Intel® Optane™ DC Persistent Memory in memory mode.
Expansion Slots	8 PCI-E 4.0 x16 M.2 Interface: 2 PCI-E 4.0 x4, RAID 0 & 1 M.2 Form Factor: 2280/22110	16 PCI-E 4.0 x8 M.2 Interface: 2 PCI-E 4.0 x4 M.2 Form Factor: 2280/22110 1 PCI-E 4.0 x16	6 PCI-E 4.0 x16, 1 PCI-E 4.0 x8 M.2 Interface: 2 PCI-E 4.0 x4, RAID 0 & 1 M.2 Form Factor: 2242/2260/2280/22110 M.2 Key: M-Key
Onboard RAID Controller	Intel® C621A controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10		Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN		Networking options provided via Ultra RiserDual LAN with 1GbE LAN via Intel® i350-AM2	Dual LAN with Intel® X550 10GBase-T Ethernet Controller
Onboard VGA	1 VGA D-Sub Connector port, ASPEED AST2600 BMC	1 VGA port,	1 VGA D-Sub Connector port, ASPEED AST2600 BMC
USB Ports	4 USB 3.2 Gen1 ports (2 rear + 1 via header)	5 USB 3.2 Gen2 ports (2 rears + 2 via headers + 1 Type A)	2 USB 2.0 ports (2 via headers) 6 USB 3.1 Gen1 ports (3 Rears Type A + 1 Rear Type C, 1 via header, 1 via header, 1 Type A) 6 USB 3.2 Gen1 ports (4 rear + 1 via header + 1 Type A)
Other Onboard I/O Devices	TPM 2.0 Header	1 COM Port (1 header)	2 ports SuperDOM 7.1 HD Audio Header TPM 2.0 Header 2 COM Ports (1 rear, 1 header)
Manageability	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 6+1 Phase-switching voltage regulator, Chassis intrusion header, CPU thermal trip support	+1.0V PCH, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 10 -fan status, CPU, CPU temperature, CPU thermal trip support, Memory, Memory temperature, Memory Voltages, PCH temperature, System temperature, VBAT, VRM temperature	+1.8V, +12V, +3.3V, +5V, +5V standby, 10 -fan status, 5+1 Phase-switching voltage regulator, Chassis intrusion header, HT, Supports system management utility, VBAT
Other Features	Chassis intrusion detection, CPU thermal trip support for processor protection, NCSI header, Node Manager Support, RoT	Chassis intrusion detection, NCSI header	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS
BIOS	AMI 64Mb SPI Flash ROM with UEFI	AMI UEFI	AMI UEFI

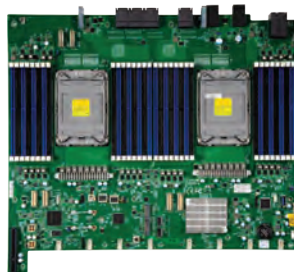
NEW! X12 DP GPU SERVERBOARDS

(For Complete System Only)

3rd Gen
Intel® Xeon®
Scalable
processors
Supported



4 GPUs



4 GPUs



MODEL	X12DGO-6	X12DPG-QT6
Processor	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s
Chipset	Intel® C621A	Intel® C621A
Form Factor	Proprietary, 15.09" x 16.85" (38.33cm x 42.8cm)	Proprietary, 15.12" x 13.2" (38.4cm x 33.53cm)
Memory Capacity & Slots	Up to 8TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 8TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 8GB Unbuffered ECC Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 32 DIMM slots	Up to 4TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 6TB Intel® Optane™ Persistent Memory 200 Series, in 16 DIMM slots; Up to 6TB Intel® Optane™ DC Persistent Memory in memory mode.
Expansion Slots	3 PCI-E 4.0 x16 M.2 Interface: 2 PCI-E 4.0 x4 M.2 Form Factor: 2280/22110	6 PCI-E 4.0 x16, 1 PCI-E 4.0 x8 M.2 Interface: 2 PCI-E 4.0 x4, RAID 0 & 1 M.2 Form Factor: 2242/2260/2280/22110 M.2 Key: M-Key
Onboard RAID Controller	Intel® C621A controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN		Dual LAN with Intel® X550 10GBase-T Ethernet Controller
Onboard VGA	1 VGA port,	1 VGA D-Sub Connector port, ASPEED AST2600 BMC
USB Ports	3 USB 3.1 Gen2 ports, 1 via header, 2 Type A) 3 USB 3.2 Gen2 ports, 1 via header) + 2 Type A	2 USB 2.0 ports (2 via headers) 6 USB 3.1 Gen1 ports (3 Rears Type A + 1 Rear Type C, 1 via header, 1 via header, 1 Type A) 6 USB 3.2 Gen1 ports (4 rear + 1 via header + 1 Type A)
Other Onboard I/O Devices	TPM 2.0 Header 1 COM Port (1 header)	2 ports SuperDOM 7.1 HD Audio Header TPM 2.0 Header 2 COM Ports (1 rear, 1 header)
Manageability	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, SuperDoctor® III, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+3.3V, +5V, 3.3V standby, CPU, CPU temperature, CPU thermal trip support, Memory temperature, Memory Voltages, PCH temperature, System temperature, VBAT, VRM temperature	+1.8V, +12V, +3.3V, +5V, +5V standby, 10 -fan status, 5+1 Phase-switching voltage regulator, Chassis intrusion header, HT, Supports system management utility, VBAT
Other Features	N/A	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS
BIOS	AMI UEFI	AMI UEFI

NEW! X12 DP STORAGE SERVERBOARDS

(For Complete System Only)

3rd Gen
Intel® Xeon®
Scalable
processors
Supported



Datacenter Optimized



Storage Serverboard



MODEL	X12DPD-A6M25	X12DSC-6
Processor	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s
Chipset	Intel® C621A	Intel® C621A
Form Factor	Proprietary, 12" x 13" (30.48cm x 33.02cm)	Proprietary, 14.8" x 10.9" (37.59cm x 27.69cm)
Memory Capacity & Slots	Up to 4TB RDIMM, DDR4-3200MHz; Up to 4TB LRDIMM, DDR4-3200MHz Up to 4TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 16 DIMM slots	Up to 4TB RDIMM, DDR4-3200MHz; Up to 4TB LRDIMM, DDR4-3200MHz, DDR4-3200MHz Up to 2TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 16 DIMM slots
Expansion Slots	3 PCI-E 4.0 x16 (in x16 slot), 8 PCI-E 3.0 NVMe x4 M.2 Interface: 2 PCI-E 3.0 x2, RAID 0 & 1 M.2 Form Factor: 2242/2280 M.2 Key: M-Key 1 PCI-E 4.0 x16, AIOM superset of OCP 3.0 Ethernet	3 PCI-E 4.0 x16 M.2 Form Factor: 22110
Onboard RAID Controller	Intel® C621A controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10	
Onboard LAN	Dual LAN with 25GbE with Mellanox ConnectX-4 Lx EN	Dual LAN with 10GBase-T with Intel® X550
Onboard VGA	1 VGA D-Sub Connector port, ASPEED AST2600 BMC	1 VGA (Rear/Internal) port,
USB Ports	4 USB 3.1 Gen2 ports (2 rears, 2 via headers)	2 USB 3.1 Gen1 ports(2 rears)
Other Onboard I/O Devices	TPM Header	TPM 2.0 Header 1 COM Port (1 header)
Manageability	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, SuperDoctor® III, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.0V PCH, 1.2V (VDIMM), 6 Phase-switching voltage regulator, Chipset Voltage, CPU, CPU temperature, CPU thermal trip support, Memory Voltages	+12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, Chipset Voltage, CPU, CPU temperature, CPU thermal trip support, Memory, Memory temperature, Memory Voltages, Monitors CPU voltages, Supports system management utility, System level control, System temperature
Other Features	Chassis intrusion detection, Chassis intrusion header, Node Manager Support, RoHS, RoT, UID, WOL	ACPI power management, Chassis intrusion detection, Chassis intrusion header, CPU thermal trip support for processor protection, Hyper-Speed Technology hardware acceleration, Intel® QuickAssist Technology , RoHS, Halogen Free, RoT, WOL
BIOS	AMI UEFI	AMI UEFI

NEW! X12 DP/MP

(For Complete System Only)

Hyper-E

Ultra Series

3rd Gen
Intel® Xeon®
Scalable
processors
Supported

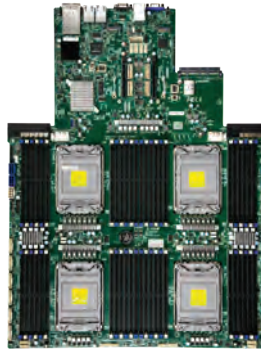


MODEL	X12DHM-6	X12DPU-6
Processor	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s
Chipset	Intel® C621A	Intel® C621A
Form Factor	Proprietary, 17" x 10.7" (43.18cm x 27.18cm)	Proprietary, 17" x 16.8" (43.18cm x 42.67cm)
Optimized Chassis	● HS119-R1K24P ● HS829-R1K24P ● HS219-R1K63P	● SC119UH3TS-R1K22P-T ● SC819U3TS-R1K22P-T ● SC829U3TS-R1K22P-T ● SC219U3TS-R1K22P-T ● SC219ULTS-R1K62
Memory Capacity & Slots	Up to 8TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 8TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 8TB 3DS ECC Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 32 DIMM slots	Up to 8TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 8TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 8TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 32 DIMM slots
Expansion Slots	8 PCI-E 4.0 x16 1 PCI-E 4.0 x16 AIOM Slot, 8 PCI-E 4.0 NVMe x4 M.2 Interface: 2 SATA/PCI-E 3.0 x2, RAID 0 & 1 M.2 Form Factor: 2280/22110 1 PCI-E 4.0 x16	1 PCI-E 4.0 x32 Right Riser Slot, 1 PCI-E 4.0 x16 Right Riser Slot, 1 PCI-E 4.0 x40 Ultra Riser Slot, 1 NVMe x4 Internal Port(s)
Onboard RAID Controller	Intel® C621A controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621A controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN		Networking options provided via Ultra Riser
Onboard VGA	1 VGA D-Sub Connector port, ASPEED AST2600 BMC	1 VGA D-Sub Connector port, ASPEED AST2600 BMC
USB Ports	2 USB 3.2 Gen1 ports (2 via headers) 2 USB 3.2 Gen2 ports , 2 via headers)	4 USB 3.2 Gen1 ports (2 rear + 2 via headers)
Other Onboard I/O Devices	TPM 2.0 Header 1 COM Port (1 header)	TPM Header 1 COM Port (1 rear)
Manageability	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, SuperDoctor® III, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SSM, SUM, SuperDoctor® 5, SuperDoctor® III, vPro, Watchdog
PC Health Monitoring	+1.8V PCH, +12V, +5V standby, 10 -fan status, 3.3V standby, Chassis intrusion header, CPU temperature, Memory temperature, Memory Voltages, Monitors CPU voltages, Monitors for CPU Cores, PCH temperature, VRM temperature	+1.8V PCH, +12V, +5V standby, 3.3V standby, 8 -fan status, Chassis intrusion header, Memory Voltages, PCH temperature
Other Features	ACPI power management, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, NCSI header, Node Manager Support, RoHS, Halogen Free, RoT, UID, WOL	ACPI power management, Chassis intrusion detection, Chassis intrusion header, CPU thermal trip support for processor protection, Node Manager Support, RoHS, RoHS, Halogen Free, RoT, UID, WOL
BIOS	AMI UEFI	AMI UEFI

NEW! X12 MP SERVERBOARD

(For Complete System Only)

MP 4-Way



3rd Gen
Intel® Xeon®
Scalable
processors
Supported



MODEL

X12QCH+

Processor	3rd Gen Intel® Xeon® Scalable processors Quad Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 250W TDP, 6 UPI up to 10.4 GT/s
Chipset	Intel® C621A
Form Factor	Proprietary, 17" x 21.9" (43.18cm x 55.63cm)
Memory Capacity & Slots	Up to 12TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 12TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 6TB Intel® Optane™ Persistent Memory 200 Series, DDR4-2666MHz, in 48 DIMM slots
Expansion Slots	3 PCI-E 3.0 x32 Left Riser Slot, 3 PCI-E 3.0 x32 Right Riser Slot M.2 Interface: 2 SATA/PCI-E 3.0 x4 M.2 Form Factor: 2280/22110 M.2 Key: M-Key U.2 Interface: 8 PCI-E 3.0 x4 and 8 PCI-E 3.0 x4 and 8 PCI-E 3.0 x4 and 8 PCI-E 3.0 x4 1 PCI-E 3.0 x32 Left Riser Slot, Riser card PN: RSC-D2-668G4 1 PCI-E 3.0 x32 Right Riser Slot, Riser card PN: RSC-D2R-668G4
Onboard RAID Controller	Intel® C621A controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Quad LAN with 2x 10G BaseT with Intel® X710-TM4; 2x 10G SFP+ with Intel® X710-TM4,(Optional) AIOM up to 100G QSFP 28
Onboard VGA	1 VGA port,
USB Ports	2 USB 3.2 Gen1 ports ()
Other Onboard I/O Devices	TPM 2.0 Header 1 COM Port (1 rear)
Manageability	IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, 3.3V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, VBAT
Other Features	ACPI power management, CPU thermal trip support for processor protection, RoHS, RoT, UID
BIOS	AMI UEFI

DP SERVERBOARDS

NEW!

Intel® Xeon® Scalable processors Supported



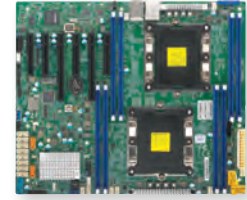
Mainstream
6 PCI-E 3.0, 14 SATA3
and 2 NVMe, Dual 1GbE



Mainstream
6 PCI-E 3.0, 14 SATA3
and 2 NVMe, Dual 10GbE



Mainstream
ATX, M.2 NVMe,
6 PCI-E slots



MODEL	X11DPi-N	X11DPi-NT	X11DPL-i
Processor	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 140W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).
Chipset	Intel® C621	Intel® C622	Intel® C621
Form Factor	E-ATX, 12" x 13" (30.48cm x 33.02cm)	E-ATX, 12" x 13" (30.48cm x 33.02cm)	ATX, 12.076" x 10.15" (30.67cm x 25.78cm)
Memory Capacity & Slots*	16 DIMM slots; Up to 4TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	16 DIMM slots; Up to 4TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	8 DIMM slots; Up to 2TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)
Expansion Slots	4 PCI-E 3.0 x16, 2 PCI-E 3.0 x8, 2 PCI-E 3.0 NVMe x4 Internal Port(s) M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2260, 2280, 22110 M.2 Key: M-Key	4 PCI-E 3.0 x16, 2 PCI-E 3.0 x8, 2 PCI-E 3.0 NVMe x4 Internal Port(s) M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2260, 2280, 22110 M.2 Key: M-Key	2 PCI-E 3.0 x16, 3 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot) M.2 Interface: 1 SATA/PCI-E 3.0 x4 M.2 Form Factor: 2260, 2280 M.2 Key: M-Key
Onboard RAID Controller	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C622 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with 1GbE LAN with Intel® X722	Dual LAN with 10GbBase-T with Intel® X722 + X557	Dual LAN with 1GbE with Intel® X722 + Marvell 88E1512
Onboard VGA	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC
USB Ports	4 USB 2.0 ports (2 rear + 2 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)	4 USB 2.0 ports (2 rear + 2 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)	4 USB 2.0 ports (2 rear + 2 via headers) 3 USB 3.2 Gen1 ports (2 via headers + 1 Type A)
Other Onboard I/O Devices	2 ports SuperDOM TPM 2.0 Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM 2.0 Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM 2.0 Header 1 COM Port (1 header)
Manageability	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, 3.3V standby, Monitors CPU voltages	+12V, +3.3V, +5V, +5V standby, 3.3V standby, Monitors CPU voltages	+12V, +3.3V, +5V, +5V standby, 3.3V standby, 8 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility
Thermal Control			
Other Features	ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, NCSI header, Node Manager Support, RoHS, SDDC, UID	ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, NCSI header, Node Manager Support, RoHS, SDDC, UID	ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, SDDC, UID
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

** For integration into SuperServer® systems only, not available for sale as subsystems.

† 2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro.

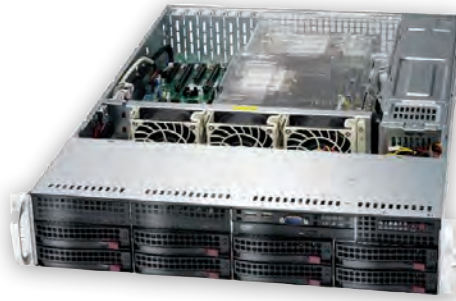
†† For 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake Refresh & Cascade Lake) only. Contact your Supermicro sales rep for more info.

OPTIMIZED CHASSIS AND ACCESSORIES

SC825TQC-R1K03LPB

2U Chassis with Flexible Expansion Slots

- SAS3 (12Gb/s) HDD support
- 8x 3.5" Hot-swap SAS3/ SATA Drive Bays & 2x Fixed 3.5" Drive Bays
- 1000W Redundant power supplies **Titanium Level** (96%)
- Adjustable Air Shroud with Enhanced cooling design
- 7 Slots Low-profile PCI expansion



SC846BE1C-R1K23B

4U Storage Chassis

- Optimized chassis cooling with redundant cooling fans and adjustable air shroud
- 24x 3.5" hot-swap SAS/SATA drive bays supporting SAS3/2 or SATA3 HDDs with 12Gb/s throughput
- Redundant 1200W **Titanium Level** power supplies
- E1C: Single SAS3 (12Gb/s) expander backplane
- Mini SAS HD (SFF 8643) connectivity on backplane



MB Chassis	X11DPi-N	X11DPi-NT	X11DPL-i
1U			● SC813MF2TQC-R608CB2 ● SC813MF2TQC-505CB2 ● SC113MFAC2-R608CB ● SC113MFAC2-605CB ● SC514-R407C 1U Heatsink:SNK-P0067PD
2U	● SC825TQC-R1K03LPB ● SC213AC-R1K23LPB 2U Heatsink: SNK-P0068PSC (Front) 2U Heatsink: SNK-P0068PS (Rear)	● SC825TQC-R1K03LPB ● SC213AC-R1K23LPB 2U Heatsink: SNK-P0068PSC (Front) 2U Heatsink: SNK-P0068PS (Rear)	825TQC-R740LPB 825MBTQC-R802LPB
3U			835TQC-R802B
Mid/Mini-Tower			732i-865B
4U/Tower	● SC745BAC-R1K28B2 2U Heatsink: SNK-P0068PS	● SC745BAC-R1K28B2 2U Heatsink: SNK-P0068PS	842XTQC-R606B 842TQC-865B

RESOURCE OPTIMIZED / DCO

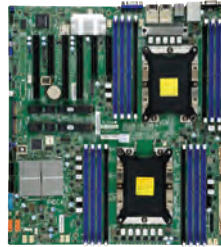
Resource Optimized
7 PCI-E 3.0 Slots,
1GbE



Resource Optimized
7 PCI-E 3.0 Slots,
10GbE



Resource Optimized
Intel® Quick Assist Technology
10GbE



Datacenter Optimized
Dual 1GbE,
opt. SAS3



Datacenter Optimized
Dual 10GbE and NVMe
Opt. SAS3



MODEL	X11DPH-i	X11DPH-T	X11DPH-Tq	X11DDW-L	X11DDW-NT
Processor	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).
Chipset	Intel® C621	Intel® C622	Intel® C627	Intel® C621	Intel® C622
Form Factor	E-ATX, 12" x 13" (30.48cm x 33.02cm)	E-ATX, 12" x 13" (30.48cm x 33.02cm)	E-ATX, 12" x 13" (30.48cm x 33.02cm)	Proprietary WIO, 12.3" x 13.4" (31.24cm x 34.04cm)	Proprietary WIO, 12.3" x 13.4" (31.24cm x 34.04cm)
Memory Capacity & Slots*	16 DIMM slots; Up to 4TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	16 DIMM slots; Up to 4TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	16 DIMM slots; Up to 4TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	12 DIMM slots; Up to 3TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	12 DIMM slots; Up to 3TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)
Expansion Slots	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8 M.2 Interface: 2 PCI-E 3.0 x4 M.2 Form Factor: 2242/2260/2280/22110 M.2 Key: M-Key (RAID 0,1 support)	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8 M.2 Interface: 2 PCI-E 3.0 x4 M.2 Form Factor: 2242/2260/2280/22110 M.2 Key: M-Key (RAID 0,1 support)	3 PCI-E 3.0 x16, 3 PCI-E 3.0 x8 M.2 Interface: 2 PCI-E 3.0 x4 M.2 Form Factor: 2242/2260/2280/22110 M.2 Key: M-Key (RAID 0,1 support)	1 PCI-E 3.0 x32 Left Riser Slot, 1 PCI-E 3.0 x16 Right Riser Slot, 1 PCI-E 3.0 x16 for Add-On-Module (AOM) M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2242, 2260, 2280, 22110 M.2 Key: M-Key	1 PCI-E 3.0 x32 Left Riser Slot, 1 PCI-E 3.0 x16 Right Riser Slot, 1 PCI-E 3.0 x16 for Add-On-Module (AOM), 4 PCI-E 3.0 NVMe x4 Internal Port(s) M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2242, 2260, 2280, 22110 M.2 Key: M-Key
Onboard RAID Controller	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C627 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C622 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with 1GbE with Intel® X722 + Marvell 88E1512	Dual LAN with 10GbBase-T with Intel® X722 + X557	Dual LAN with 10GbBase-T with Intel® X722 + X557	Dual LAN with GbE from C621	Dual LAN with 10GbBase-T from C622
Onboard VGA	1 VGA port	1 VGA port	1 VGA port	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC
USB Ports	7 USB 3.2 Gen1 ports (4 rear + 2 via headers + 1 Type A)	7 USB 3.2 Gen1 ports (4 rear + 2 via headers + 1 Type A)	7 USB 3.2 Gen1 ports (4 rear + 2 via headers + 1 Type A)	6 USB 3.2 Gen1 ports (4 rear + 2 via headers)	6 USB 3.2 Gen1 ports (4 rear + 2 via headers)
Other Onboard I/O Devices	2 ports SuperDOM TPM 2.0 Header 1 COM Port (1 rear)	2 ports SuperDOM TPM 2.0 Header 1 COM Port (1 rear)	2 ports SuperDOM TPM 2.0 Header 1 COM Port (1 rear)	2 ports SuperDOM TPM 2.0 Header	2 ports SuperDOM TPM 2.0 Header
Manageability	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), Chipset Voltage, Memory Voltages, Monitors CPU voltages	+1.8V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), Chipset Voltage, Memory Voltages, Monitors CPU voltages	+1.8V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), Chipset Voltage, Memory Voltages, Monitors CPU voltages	+1.8V, +12V, +3.3V, +5V, +5V standby, Memory Voltages, Monitors CPU voltages	+1.8V, +12V, +3.3V, +5V, +5V standby, Memory Voltages, Monitors CPU voltages
Thermal Control					
Other Features	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, CPU thermal trip support for processor protection, NCSI header, RoHS, SDDC, UID, WOL	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, CPU thermal trip support for processor protection, NCSI header, RoHS, SDDC, UID, WOL	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, CPU thermal trip support for processor protection, Intel® QuickAssist Technology, NCSI header, RoHS, SDDC, UID, WOL	Chassis intrusion detection, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, RoHS, UID	Chassis intrusion detection, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, RoHS, UID
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

** For integration into SuperServer® systems only, not available for sale as subsystems.

† 2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro.

†† For 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake Refresh & Cascade Lake) only. Contact your Supermicro sales rep for more info.

OPTIMIZED CHASSIS AND ACCESSORIES

SC116AC2-R706WB2

1U Rackmount Chassis

- SAS3 12Gb/s and NVMe support
- 700W/750W redundant **Platinum Level** (PWS-706) or **Gold Level** (PWS-704) high-efficiency power supplies
- 10x 2.5" Hot-swap SAS3/SATA3 Drive Bays
- 4x 4cm Counter-rotating PWM fans
- 2x Full-height I/O Expansion slots & 1x Low-profile I/O Expansion slot
- Supports maximum motherboard size 12" x 13"
- Optimized for 8x SAS3/2x NVMe HDDs
- Optimized for WIO motherboards
- 2x Front USB



SC846BE1C-R1K23B

4U Storage Chassis

- Optimized chassis cooling with redundant cooling fans and adjustable air shroud
- 24x 3.5" hot-swap SAS/SATA drive bays supporting SAS3/2 or SATA3 HDDs with 12Gb/s throughput
- Redundant 1200W **Titanium Level** power supplies
- E1C: Single SAS3 (12Gb/s) expander backplane
- Mini SAS HD (SFF 8643) connectivity on backplane



MB Chassis	X11DPH-i	X11DPH-T	X11DPH-Tq	X11DDW-L	X11DDW-NT
1U				● SC815TQC-R706WB2 ● SC116AC2-R706WB2 ● SC113AC2-R706WB2 1U Heatsink: SNK-P0067PSMB	● SC815TQC-R706WB2 ● SC116AC2-R706WB2 ● SC113AC2-R706WB2 1U Heatsink: SNK-P0067PSMB
2U	● SC826BE1C4-R1K23LPB ● SC216BE1C4-R1K23LPB ● SC829HE1C4-R1K62LPB 2U Heatsink: SNK-P0068PSC (Front); 2U Heatsink: SNK-P0068PS (Rear)	● SC826BE1C4-R1K23LPB ● SC216BE1C4-R1K23LPB ● SC829HE1C4-R1K62LPB 2U Heatsink: SNK-P0068PSC (Front); 2U Heatsink: SNK-P0068PS (Rear)	● SC826BE1C4-R1K23LPB ● SC216BE1C4-R1K23LPB ● SC829HE1C4-R1K62LPB 2U Heatsink: SNK-P0068PSC (Front); 2U Heatsink: SNK-P0068PS (Rear)	● SC825TQC-R1K03WB ● SC826BAC4-R1K23WB 2U Heatsink: SNK-P0068PS	● SC825TQC-R1K03WB ● SC826BAC4-R1K23WB 2U Heatsink: SNK-P0068PS
3U	● SC836BE1C-R1K23B 2U Heatsink: SNK-P0068PS	● SC836BE1C-R1K23B 2U Heatsink: SNK-P0068PS	● SC836BE1C-R1K23B 2U Heatsink: SNK-P0068PS		
Mid/Mini-Tower					
4U/Tower	● SC846BE1C-R1K23B ● SC847BE1C4-R1K23LPB 2U Heatsink: SNK-P0068PSC (Front); 2U Heatsink: SNK-P0068PS (Rear)	● SC846BE1C-R1K23B ● SC847BE1C4-R1K23LPB 2U Heatsink: SNK-P0068PSC (Front); 2U Heatsink: SNK-P0068PS (Rear)	● SC846BE1C-R1K23B ● SC847BE1C4-R1K23LPB 2U Heatsink: SNK-P0068PSC (Front); 2U Heatsink: SNK-P0068PS (Rear)		

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 product family and Intel® Xeon® Scalable processors. ● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

** For integration into SuperServer® systems only, not available for sale as subsystems.

WORKSTATION

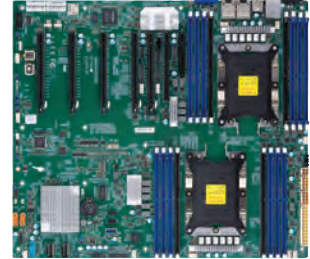
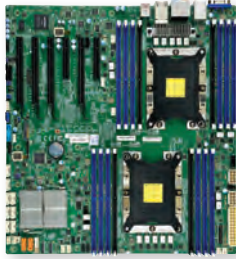
Thunderbolt 3.0 / NVMe
Dual 1GbE, PCI-E 3.0 slots

LSI 3008 SAS3 SW RAID,
16 DIMMs, IPMI

4 GPUs, 16 DIMMs
GPU Serverboard, IPMI

NEW!

Intel® Xeon®
Scalable
processors
Supported



MODEL	X11DAi-N	X11DAC	X11DPG-QT
Processor	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).
Chipset	Intel® C621	Intel® C621	Intel® C621
Form Factor	E-ATX, 12" x 13" (30.48cm x 33.02cm)	E-ATX, 12" x 13" (30.48cm x 33.02cm)	Proprietary, 15.12" x 13.2" (38.4cm x 33.53cm)
Memory Capacity & Slots*	16 DIMM slots; Up to 4TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	16 DIMM slots; Up to 4TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	16 DIMM slots; Up to 4TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)
Expansion Slots	4 PCI-E 3.0 x16, 2 PCI-E 3.0 x8, 2 PCI-E 3.0 NVMe x4 Internal Port(s) M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2260, 2280, 22110 M.2 Key: M-Key	3 PCI-E 3.0 x16 (in x16 slot), 3 PCI-E 3.0 x8	6 PCI-E 3.0 x16, 1 PCI-E 3.0 x4 (in x8 slot) M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2280, 22110 M.2 Key: M-Key
Onboard RAID Controller	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with GbE from C621	Dual LAN with GbE from C621	Dual LAN with Intel® X550 10GBase-T Ethernet Controller
Onboard VGA	1 VGA port, ASPEED AST2500 BMC	1 VGA D-Sub Connector port, ASPEED AST2500 BMC	1 VGA D-Sub Connector port, ASPEED AST2500 BMC
USB Ports	7 USB 3.2 Gen1 ports (4 rear + 2 via headers + 1 Type A) 2 USB 3.2 Gen2 ports (2 rears (1 Rear Type A + 1 Rear Type C))	6 USB 3.2 Gen1 ports (4 rear + 2 via headers)	4 USB 2.0 ports (2 rear + 2 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)
Other Onboard I/O Devices	2 ports SuperDOM 7.1 HD Audio TPM 2.0 Header 1 COM Port (1 header)	2 ports SuperDOM 7.1 HD Audio TPM 2.0 Header 1 COM Port (1 header) PS/2 COMBO	2 ports SuperDOM 7.1 HD Audio Header TPM 2.0 Header 2 COM Ports (1 rear, 1 header)
Manageability	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, Memory Voltages, Monitors CPU voltages	+12V, +3.3V, +5V, +5V standby, Memory Voltages, Monitors CPU voltages	+1.8V, +12V, +3.3V, +5V, +5V standby, 10 -fan status, 5+1 Phase-switching voltage regulator, Chassis intrusion header, HT, Supports system management utility, VBAT
Thermal Control			
Other Features	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

** For integration into SuperServer® systems only, not available for sale as subsystems.

† 2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro.

†† For 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake Refresh & Cascade Lake) only. Contact your Supermicro sales rep for more info.

OPTIMIZED CHASSIS AND ACCESSORIES

SC732D4-903B

Mid-Tower Chassis, Whisper-Quiet (<21dB)

- Mid-Tower Chassis Supports Micro-ATX Motherboard sizes – E-ATX/ ATX/Micro ATX
- 90° Rotatable HDD Cage
- Whisper-Quiet (<21dB)
- Kensington Lock Support
- Front I/O Ports: 2x Audio (HD/AC97) & 2x USB 3.0
- 1x Optional Front 12cm (1850 RPM) PWM Fan
- 900W **Gold Level** High-Efficiency power supply
- 1x Rear 12cm (1850 RPM) PWM Fan
- 2x 5.25" External HDD Drive Bays & 4x 3.5" Internal HDD Drive Bays



SC743AC-1200B-SQ

4U Tower 1200W **Platinum Level** Whisper-Quiet (<27dB)

- 8x 3.5" SAS3/SATA3 Backplane for Hot-swap drives
- Whisper-Quiet (<27dB)
- Front HDD Door Lock & Side Panel Intrusion Switch
- Front I/O Ports: 2x USB 3.0
- 2x 8cm PWM Fans & 1x 9cm Rear PWM Fan
- 4U / Full Tower Chassis Supports max. Motherboard, Sizes – E-ATX 12" x 13"/ATX/Micro ATX
- 1200W **Platinum Level** Certified High-Efficiency power supply
- 3x 5.25" External HDD Drive Bays & 8x 3.5" Hot-swap HDD drives



MB Chassis	X11DAi-N	X11DAC	X11DPG-QT
1U			
2U			
3U			
Mid/Mini-Tower	● SC732D4-1200B 4U Heatsink:SNK-P0070APS4	● SC732D3-1200B ● SC732D4-903B 4U Heatsink:SNK-P0070APS4	
4U/Tower	● SC743AC-1200B-SQ 4U Heatsink:SNK-P0070APS4	● SC743AC-1200B-SQ 4U Heatsink:SNK-P0070APS4	(For Supermicro Complete System Only)

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 product family and Intel® Xeon® Scalable processors

● Most Optimized Chassis for SuperServer Configuration

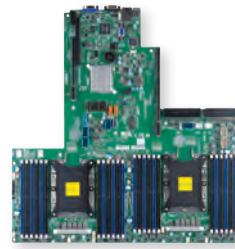
* Heatsinks & Riser Cards sold separately

ULTRA SERIES

Support up to Highest Performing 205W TDP CPUs, 24 DIMMs DDR, Hyper-Speed Option
All Hot-swap NVMe Storage Supporting RAID (optional), Integrated 100G Omni-Path Fabrics or FPGA Options
(For Complete System Only)

NEW!

Intel® Xeon®
Processors
Scalable
Supported



MODEL	X11DPU**	X11DPU-Z+**	X11DPU-ZE+**	X11DPU-V**	X11DPU-XLL**
Processor	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).
Chipset	Intel® C621	Intel® C621	Intel® C621	Intel® C621	Intel® C621
Form Factor	Proprietary Ultra/WIO, 17" x 16.8" (43.18cm x 42.67cm) 24 DIMM slots; Up to 6TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	Proprietary Ultra/WIO, 17" x 16.8" (43.18cm x 42.67cm) 24 DIMM slots; Up to 6TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	Proprietary Ultra/WIO, 17" x 16.8" (43.18cm x 42.67cm) Up to 6TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 6TB 3DS ECC LRDIMM, DDR4-2933MHz, in 24 DIMM slots; Up to 6TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only).	Proprietary Ultra/WIO, 17" x 16.8" (43.18cm x 42.67cm) 24 DIMM slots; Up to 6TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	Proprietary Ultra/WIO, 17" x 16.8" (43.18cm x 42.67cm) 16 DIMM slots; Up to 4TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)
Memory Capacity & Slots*					
Expansion Slots	1 PCI-E 3.0 x32 Right Riser Slot, 1 PCI-E 3.0 x8 Right Riser Slot, 1 PCI-E 3.0 x40 Ultra Riser Slot, 4 PCI-E 3.0 NVMe x4 Internal Port(s)	1 PCI-E 3.0 x32 Left Riser Slot, 1 PCI-E 3.0 x8 Right Riser Slot, 1 PCI-E 3.0 x40 Far Right Riser Slot, 4 PCI-E 3.0 NVMe x4 Internal Port(s)	1 PCI-E 3.0 x32 Left Riser Slot, 1 PCI-E 3.0 x8 Right Riser Slot, 1 PCI-E 3.0 x40 Far Right Riser Slot, 4 PCI-E 3.0 NVMe x4 Internal Port(s)	1 PCI-E 3.0 x32 Right Riser Slot, 1 PCI-E 3.0 x8 Right Riser Slot, 1 PCI-E 3.0 x40 Ultra Riser Slot, 4 PCI-E 3.0 NVMe x4 Internal Port(s)	1 PCI-E 3.0 x32 Left Riser Slot, 1 PCI-E 3.0 x8 Center Right Riser Slot, 1 PCI-E 3.0 x40 Far Right Riser Slot, 4 PCI-E 3.0 NVMe x4 Internal Port(s)
Onboard RAID Controller	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; SATA3 (6 Gbps) RAID 0,1,5,10	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; SATA3 (6 Gbps) RAID 0,1,5,10	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Networking options provided via Ultra Riser	Networking options provided via Ultra Riser	Networking options provided via Ultra Riser	Networking options provided via Ultra Riser	Networking options provided via Ultra Riser
Onboard VGA	2 VGA D-Sub Connector ports, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC	2 VGA D-Sub Connector ports, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC
USB Ports	5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A) 2 ports SuperDOM	3 USB 3.2 Gen1 ports (2 rear + 1 via header)	3 USB 3.2 Gen1 ports (2 rear + 1 via header)	5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A) 2 ports SuperDOM	3 USB 3.2 Gen1 ports (2 rear + 1 Type A)
Other Onboard I/O Devices	TPM 2.0 Header & Chip both 1 COM Port (1 rear)	TPM 2.0 Header 1 COM Port (1 rear) 2 ports SuperDOM	TPM 2.0 Header 1 COM Port (1 rear) 2 ports SuperDOM	TPM 2.0 Header & Chip both 1 COM Port (1 rear)	TPM 2.0 Header 1 COM Port (1 rear) 2 ports SuperDOM
Manageability	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, 5+1 Phase-switching voltage regulator, 8-fan status, Chassis intrusion header, HT, Supports system management utility, VBAT	+12V, +3.3V, +5V, +5V standby, 3.3V standby	+12V, +3.3V, +5V, +5V standby, 3.3V standby	+1.8V, +12V, +3.3V, +5V, +5V standby, 5+1 Phase-switching voltage regulator, 8-fan status, Chassis intrusion header, HT, Supports system management utility, VBAT	+12V, +3.3V, +5V, +5V standby, Monitors CPU voltages
Thermal Control		8x 4-pin fan headers (up to 8 fans), 8x fans with tachometer monitoring, PWM fan speed control, Status monitoring for speed control	8x 4-pin fan headers (up to 8 fans), 8x fans with tachometer monitoring, PWM fan speed control, Status monitoring for speed control	8x 4-pin fan headers (up to 8 fans), 8x fans with tachometer monitoring, Pulse Width Modulated (PWM) fan connectors, Status monitoring for speed control	
Other Features	4x 8-pin GPU power connectors, Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS, SDDC	Chassis intrusion detection, Chassis intrusion header, RoHS, SDDC	Chassis intrusion detection, Chassis intrusion header, RoHS, SDDC	4x 8-pin GPU power connectors, Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS, SDDC	ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Hyper-Speed Technology hardware acceleration, Node Manager Support, RoHS, SDDC, UID
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

** For integration into SuperServer® systems only, not available for sale as subsystems.

† 2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro.

†† For 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake Refresh & Cascade Lake) only. Contact your Supermicro sales rep for more info.

OPTIMIZED CHASSIS AND ACCESSORIES

SC819U-R751P-T**

1U chassis optimized for Ultra SuperServer
(For Complete System Only)

- 4x 3.5" hot-swap drive bay
- 2x 1U 750W CRPS, +12V/+12Vsb output, **Platinum Level** AC-DC power supply Module (203x73.5x40mm)
- 8x 4cm high-performance counter-rotating PWM fans with optimal fans speed control



SC219U2-R1K02-T**

2U chassis optimized for Ultra SuperServer
(For Complete System Only)

- 24x 2.5" hot-swap drive bay
- 2x 1U 800/1000W Redundant Single Output power supplies **Titanium Level**, CRPS 203mm length
- 4x 80mm Hot-swap PWM Fans



MB Chassis	X11DPU**	X11DPU-Z+**	X11DPU-V**	X11DPU-XLL**
1U	● SC119U-R751P-T** ● SC819U-R751P-T** 1U Heatsink: SNK-P0067PS	● SC119U-R751P-T** ● SC819U-R751P-T** 1U Heatsink: SNK-P0067PS	● SC119U-R751P-T** ● SC819U-R751P-T** 1U Heatsink: SNK-P0067PS	● SC119U-R751P-T** ● SC819U-R751P-T** 1U Heatsink: SNK-P0067PS
2U	● SC219U2-R1K02-T** ● SC829U2-R1K02-T** 2U Heatsink: SNK-P0068PS	● SC219U2-R1K02-T** ● SC829U2-R1K02-T** 2U Heatsink: SNK-P0068PS	● SC219U2-R1K02-T** ● SC829U2-R1K02-T** 2U Heatsink: SNK-P0068PS	● SC219U2-R1K02-T** ● SC829U2-R1K02-T** 2U Heatsink: SNK-P0068PS
3U				
Mid/Mini-Tower				
4U/Tower				

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 product family and Intel® Xeon® Scalable processors

● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

** For integration into SuperServer® systems only, not available for sale as subsystems.

TWIN SERIES

(For Complete System Only)

NEW!

Intel® Xeon® Scalable processors Supported



MODEL	X11DPT-BH**	X11DPT-B**	X11DPT-BR	X11DPT-PS**	X11DPT-L
Processor	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 165W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 140W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).
Chipset	Intel® C621	Intel® C621	Intel® C621	Intel® C621	Intel® C621
Form Factor	Proprietary Twin 7.62" x 19.4" (19.35cm x 49.28cm)	Proprietary Twin 7.62" x 18.86" (19.35cm x 47.9cm)	Proprietary Twin, 7.62" x 18.86" (19.35cm x 47.9cm)	Proprietary Twin 6.8" x 18.86" (17.27cm x 47.9cm)	Proprietary Twin, 6.8" x 16.64" (17.27cm x 42.27cm)
Memory Capacity & Slots*	24 DIMM slots; Up to 6TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	24 DIMM slots; Up to 6TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	24 DIMM slots; Up to 6TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	16 DIMM slots; Up to 4TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	8 DIMM slots; Up to 2TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM
Expansion Slots	1 PCI-E 3.0 x16 Left Riser Slot, 1 PCI-E 3.0 x16 Right Riser Slot, 1 PCI-E 3.0 x24 Proprietary Slot (for Supermicro storage add-on card), 1 PCI-E 3.0 x16 SIOM LAN Networking Slot, 1 PCI-E 3.0 x8 Proprietary Slot (For M.2 add-on card) 1 PCI-E 3.0 x16	1 PCI-E 3.0 x16 Left Riser Slot, 1 PCI-E 3.0 x16 Right Riser Slot, 1 PCI-E 3.0 x24 Proprietary Slot (for Supermicro storage add-on card), 1 PCI-E 3.0 x16 SIOM LAN Networking Slot, 1 PCI-E 3.0 x8 Proprietary Slot (For M.2 add-on card) 1 PCI-E 3.0 x16	1 PCI-E 3.0 x16 Left Riser Slot, 1 PCI-E 3.0 x16 Right Riser Slot, 1 PCI-E 3.0 x24 Proprietary Slot (for Supermicro storage add-on card), 1 PCI-E 3.0 x8 Proprietary Slot (for M.2 add-on card), 2 PCI-E 3.0 NVMe x4 Internal Port(s) 1 PCI-E 3.0 x16	1 PCI-E 3.0 x16 Right Riser Slot, 1 PCI-E 3.0 x24 riser, 1 PCI-E 3.0 x16 connector for SMC add-on cards, 1 PCI-E 3.0 x8 connector for SMC add-on cards, PCI-E 3.0 x16 SIOM LAN Networking slot 1 PCI-E 3.0 x16	1 PCI-E 3.0 x16
Onboard RAID Controller	Intel® C621 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 2 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Single LAN with Networking option provided via SIOM module	Single LAN with Networking options provided via SIOM module	Single LAN with Networking options provided via SIOM module	Single LAN with Networking options provided via SIOM module	Dual LAN with 1GbE with Marvel® 88E1512
Onboard VGA	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC	1 VGA D-Sub Connector port, ASPEED AST2500 BMC
USB Ports	2 USB 3.2 Gen1 ports (2 rear)	2 USB 3.2 Gen1 ports (2 rear)	2 USB 3.2 Gen1 ports (2 rear)	2 USB 3.2 Gen1 ports (2 rear)	2 USB 3.2 Gen1 ports (2 rear)
Other Onboard I/O Devices	TPM 2.0 Header	TPM 2.0 Header	TPM 2.0 Header	2 ports SuperDOM TPM 2.0 Header	TPM 2.0 Header 1 COM Port (1 rear)
Manageability	IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), Chipset Voltage, Memory Voltages, Monitors CPU voltages	+1.8V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), Chipset Voltage, Memory Voltages, Monitors CPU voltages	+1.8V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), Chipset Voltage, Memory Voltages, Monitors CPU voltages	+1.8V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), Chipset Voltage, Memory Voltages, Monitors CPU voltages, Supports system management utility	+3.3V, +5V, +5V standby, 1.2V (VDIMM), HT, Monitors CPU voltages, Supports system management utility, System level control, VBAT
Thermal Control	6x 4-pin fan headers (up to 6 fans), Dual Cooling Zone, PWM fan speed control	2x 4-pin fan headers (up to 2 fans), PWM fan speed control	2x 4-pin fan headers (up to 2 fans), PWM fan speed control		
Other Features	Chassis intrusion detection, Chassis intrusion header, CPU thermal trip support for processor protection, Node Manager Support, RoHS, SDDC, UID, WOL	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS, SDDC, UID, WOL	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS, SDDC, UID, WOL	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS, SDDC, UID, WOL	CPU thermal trip support for processor protection
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

** For integration into SuperServer® systems only, not available for sale as subsystems.

† 2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro.

†† For 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake Refresh & Cascade Lake) only. Contact your Supermicro sales rep for more info.

OPTIMIZED CHASSIS AND ACCESSORIES

SC217BHQ+-R2K22B**

Next generation Twin server chassis support Supermicro Twin size Motherboard

- 2U rackmount server chassis, 2.5" SKU depth: ~28.75"; 3.5" SKU depth: ~30.5"
- Support 7.42" x 18.86" Twin MB, 4x node MB tray and 2x node MB tray design
- 4x 80x38mm chassis cooling fans
- 1+1 redundant PWS (PWS width 45mm) and cable-less PDB
- 24x 2.5" SWAP HDD; or, 12x 3.5" HSWP HDD bay
- 2x 2200W Redundant **Titanium Level** (96%) power supplies with PMBus



SC827HQ+-R2K02B**

Next generation Twin server chassis support Supermicro Twin size Motherboard

- Up to 4x swappable motherboard modules in 2U server
- Independent front control panel with UID and Fail-Monitor for each node
- 12x 3.5" hot-swap SAS/SATA drive trays
- 2000W **Platinum Level** redundant high-efficiency power supplies
- 1x LP and 1x Zero slot per node



MB Chassis	X11DPT-BH**	X11DPT-B**	X11DPT-PS**	X11DPT-L**
1U				
2U	● SC217BHQ+-R2K22BP** ● SC217BHD+-R2K22BP** ● SC827BHQ+-R2K22BP** ● SC827BHD+-R2K22BP**	● SC217BHQ+-R2K22B** ● SC217BHD+-R2K22B** 1U Heatsink: SNK-P0067PSM (Front) 1U Heatsink: SNK-P0067PS (Rear)	● SC217HQ+-R2K02B** ● SC827HQ+-R2K02B** ● SC827HD+-R2K02B** 1U Heatsink: SNK-P0067PSM (Front) 1U Heatsink: SNK-P0067PS (Rear)	SC827HD-R1K23BP3 SC827HQ-R1K68BP3
3U				
Mid/Mini-Tower				
4U/Tower				

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 product family and Intel® Xeon® Scalable processors

● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

** For integration into SuperServer® systems only, not available for sale as subsystems.

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

FATTWIN™ SERIES

Optimized for HPC and Web, 2 PCI-E / SIOM / Storage AOC slot (For Complete System Only)

NEW!

Intel® Xeon® Scalable processors Supported



MODEL	X11DPFR-S**	X11DPFR-SN**	X11DPFF-SN**	X11DPFF-SNR
Processor	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 165W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 165W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 165W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 165W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).
Chipset	Intel® C621	Intel® C621	Intel® C621	Intel® C621
Form Factor	Proprietary FatTwin, 8.53" x 19.66" (21.67cm x 49.94cm)	Proprietary FatTwin, 8.53" x 19.66" (21.67cm x 49.94cm)	Proprietary FatTwin, 8.441" x 18.724" (21.44cm x 47.56cm)	Proprietary FatTwin, 8.441" x 18.724" (21.44cm x 47.56cm)
Memory Capacity & Slots*	12 DIMM slots; Up to 3TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	12 DIMM slots; Up to 3TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	12 DIMM slots; Up to 3TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 3TB 3DS ECC LRDIMM, DDR4-2933MHz Or 2TB DCPMM, DDR4-2666MHz, in 12 DIMM slots
Expansion Slots	1 PCI-E 3.0 x24 Left Riser Slot, 1 PCI-E 3.0 x16 Left Riser Slot, 1 PCI-E 3.0 x16 connector for SMC add-on cards 1 PCI-E 3.0 x16 SIOM LAN Networking Slot M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2260, 2280, 22110 M.2 Key: M-Key 1 PCI-E 3.0 x16	1 PCI-E 3.0 x16 Left Riser Slot, 1 PCI-E 3.0 x16 Right Riser Slot, 1 PCI-E 3.0 x16 connector for SMC add-on cards 1 PCI-E 3.0 x16 SIOM LAN Networking Slot, 4 NVMe Internal Port(s) M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2260, 2280, 22110 M.2 Key: M-Key 1 PCI-E 3.0 x16	1 PCI-E 3.0 x16 Left Riser Slot, 1 PCI-E 3.0 x16 Right Riser Slot, 4 PCI-E 3.0 NVMe x4 Internal Port(s) M.2 Interface: 2 SATA/PCI-E 3.0 x4, RAID 0 & 1 M.2 Form Factor: 2260/2280/22110 M.2 Key: M-Key U.2 Interface: 4 PCI-E 3.0 x4 1 PCI-E 3.0 x16	1 PCI-E 3.0 x16 Left Riser Slot, 1 PCI-E 3.0 x16 Right Riser Slot, 4 PCI-E 3.0 NVMe x4 Internal Port(s) M.2 Interface: 2 SATA/PCI-E 3.0 x4, RAID 0 & 1 M.2 Form Factor: 2242/2260/2280/22110 U.2 Interface: 4 PCI-E 3.0 x4 1 PCI-E 3.0 x16
Onboard RAID Controller	Intel® C621 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Single LAN with Networking options provided via SIOM module	Single LAN with Networking options provided via SIOM module	Single LAN with Networking options provided via SIOM module	Single LAN with Networking options provided via SIOM module
Onboard VGA	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC	1 VGA port,	1 VGA port,
USB Ports	2 USB 3.2 Gen1 ports (2 rear)	2 USB 3.2 Gen1 ports (2 rear)	2 USB 3.2 Gen1 ports (2 rear)	2 USB 3.2 Gen1 ports (2 rear)
Other Onboard I/O Devices	TPM 2.0 Header	TPM 2.0 Header	TPM 2.0 Header	
Manageability	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, KVM with dedicated LAN, SPM, SSM, SUM, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), Chipset Voltage, Memory Voltages, Monitors CPU voltages	+1.8V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), Chipset Voltage, Memory Voltages, Monitors CPU voltages	+1.8V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), Chipset Voltage, Memory Voltages, Monitors CPU voltages, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), Chipset Voltage, Memory Voltages, Monitors CPU voltages, VBAT
Thermal Control		3x 4-pin fan headers (up to 3 fans), PWM fan speed control	4x 4-pin fan headers (up to 4 fans), PWM fan speed control	4x 4-pin fan headers (up to 4 fans), PWM fan speed control
Other Features	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS, SDDC, UID, WOL	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS, SDDC, UID, WOL	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS, SDDC, UID, WOL	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS, RoT, SDDC, UID, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

** For integration into SuperServer® systems only, not available for sale as subsystems.

† 2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro.

†† For 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake Refresh & Cascade Lake) only. Contact your Supermicro sales rep for more info.

OPTIMIZED CHASSIS AND ACCESSORIES



SCF418BC2-R2K20BP**

SYS-F619P2-RC0**

4U rack mount chassis, 28.5" depth
(For Complete System Only)

- 8x 1U hot-swap DP Twin MB node
- 6x hot-swap 2.5" HDD, 1x AOC, 1x swappable SIOM, 12DIMM per node
- 48x 2.5" hot-swap HDD bay for server chassis
- 1+1 Redundant power supplies each side, total 4x power supplies in system (PWS-2K20-1R)
- 3x 4cm fan

SCF424AS2-R1K23BP**

SYS-F629P3-RC0B**

4U rack mount chassis, 28.5" depth
(For Complete System Only)

- 4X 2U hot-swap DP Twin MB node
- 6x hot-swap 3.5" HDD, 2x rear hot-swap 3.5" HDD, 1x AOC, 1x swappable SIOM, 12 DIMM per node
- 24x 3.5" hot-swap drive bay
- 1+1 redundant power supplies each side, total 4x power supplies in system (PWS-1K23P-1R)
- 8x8cm fan



Chassis \ MB	X11DPFR-S**	X11DPFR-SN**	X11DPFF-SN**
1U			
2U			
3U			
Mid/Mini-Tower			
4U/Tower	● SCF418BC2-R2K20BP** 1U Heatsink: SNK-P0067PSM (Front) 1U Heatsink: SNK-P0067PS (Rear) ● SCF424AS2-R1K23BP** 2U Heatsink: SNK-P0068PS Optimized FatTwin™ Servers: SYS-F619P2-RT SYS-F619P2-RTN SYS-F629P3-RTB SYS-F629P3-RC0B SYS-F629P3-RTBN SYS-F619P2-FT	● SCF418BC2-R2K20BP** 1U Heatsink: SNK-P0067PSM (Front) 1U Heatsink: SNK-P0067PS (Rear) ● SCF424AS2-R1K23BP** 2U Heatsink: SNK-P0068PS Optimized FatTwin™ Servers: SYS-F619P2-RTN SYS-F619P2-RC0 SYS-F619P2-RC1 SYS-F629P3-RC0B SYS-F629P3-RC1B SYS-F629P3-RTBN SYS-F619H6-FT	Optimized FatTwin™ Servers: SYS-F619P2-FT SYS-F619P3-FT SYS-F619H6-FT

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 product family and Intel® Xeon® Scalable processors

● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

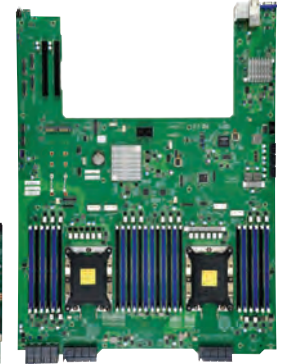
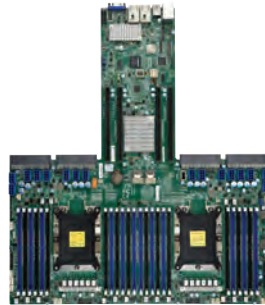
** For integration into SuperServer® systems only, not available for sale as subsystems.

GPU SERIES

(For Complete System Only)

NEW!

Intel® Xeon® Scalable processors Supported



MODEL	X11DPG-HGX2	X11DPG-SN**	X11DPG-OT-CPU**	X11DQG**	X11DGO-T**
Processor	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).
Chipset	Intel® C621	Intel® C621	Intel® C622	Intel® C621	Intel® C621
Form Factor	Proprietary, 21.94" x 16.85" (55.73cm x 42.8cm)	Proprietary, 9.2" x 19.8" (23.37cm x 50.29cm)	Proprietary, 17.0" x 19.5" (43.18cm x 49.53cm)	Proprietary, 16.9" x 12.9" (42.93cm x 32.77cm)	Proprietary, 17.0" x 22.78" (43.18cm x 57.86cm)
Memory Capacity & Slots*	Up to 6TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 6TB 3DS ECC LRDIMM, DDR4-2933MHz, in 24 DIMM slots; Up to 6TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)	16 DIMM slots; Up to 4TB DDR4-2933 MHz± with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	24 DIMM slots; Up to 6TB DDR4-2933 MHz± with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	12 DIMM slots; Up to 3TB DDR4-2933 MHz± with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	24 DIMM slots; Up to 6TB DDR4-2933 MHz± with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)
Expansion Slots	2 PCI-E 3.0 x16 M.2 Interface: 2 PCI-E 3.0 x4 M.2 Form Factor: 2280/22110 M.2 Key: M-Key	4 PCI-E 3.0 x16, 1 PCI-E 3.0 x8, 2 PCI-E 3.0 NVMe x4 Internal Port(s) 1 PCI-E 3.0 x16	4 PCI-E 3.0 x24 slots to PCI-E board, 2 PCI-E 3.0 NVMe x4 Internal Port(s) M.2 Interface: 1 PCI-E 3.0 x4 M.2 Form Factor: 2280, 22110 M.2 Key: M-Key	4 PCI-E 3.0 x16, 1 PCI-E 3.0 x32 Riser Slot M.2 Interface: 1 PCI-E 3.0 x4 M.2 Form Factor: 2242, 2260, 2280 M.2 Key: M-Key M.2 type: SATA and NVMe	2 PCI-E 3.0 x16 4 PCI-E 3.0 x16 to midplane M.2 Interface: 2 PCI-E 3.0 x4 M.2 Form Factor: 2260/2280/22110 M.2 Key: M-Key M.2 Type: NVMe
Onboard RAID Controller	Intel® C621 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C622 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with 10GBase-T with Intel® X540 10GbE Controller	Networking options provide via SIOM or AOC NIC	Dual LAN with 10GBase-T from C622	Dual LAN with 10GBase-T with Intel® X540 10GbE Controller	Dual LAN with Intel® X540 10GbE Ethernet Controller
Onboard VGA	1 VGA D-Sub Connector port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC		1 VGA port, ASPEED AST2500 BMC
USB Ports	3 USB 3.2 Gen1 ports (2 rear + 1 via header)	2 USB 3.2 Gen1 ports (2 rear)	4 USB 3.2 Gen1 ports (1 Type A)	Via proprietary riser	3 USB 3.2 Gen1 ports (2 rear + 1 Type A)
Other Onboard I/O Devices	TPM 2.0 Header	TPM 2.0 Header 1 COM Port (1 header)	TPM 2.0 Header 1 COM Port (1 rear)	TPM 2.0 Header	TPM 2.0 Header 1 COM Port (1 header)
Manageability	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, Memory Voltages, Monitors CPU voltages	+12V, +3.3V, +5V, +5V standby, 12 -fan status, Chassis intrusion header, Memory Voltages, Monitors CPU voltages, Supports system management utility, System temperature	+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, Monitors CPU voltages	+1.8V, +12V, +3.3V, +5V, +5V standby, 5+1 Phase-switching voltage regulator, Monitors CPU voltages, Supports system management utility	+1.8V, +12V, +3.3V, +5V, +5V standby, 2 fans with tachometer status monitoring, 3.3V standby, Memory Voltages, Monitors CPU voltages, Supports system management utility
Thermal Control	PWM fan speed control	ACPI power management, Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS, UID	ACPI power management, Chassis intrusion header, SDDC, UID	ACPI power management, Chassis intrusion detection, Node Manager Support, RoHS	ACPI power management, Node Manager Support, RoHS, UID
Other Features	ACPI power management, UID				
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

** For integration into SuperServer® systems only, not available for sale as subsystems.

† 2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro.

†† For 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake Refresh & Cascade Lake) only. Contact your Supermicro sales rep for more info.

OPTIMIZED CHASSIS AND ACCESSORIES

SC218GHTS-R2K03BP3**

2U chassis optimized for 4x Double Width GPU Solution
(For Complete System Only)

- Supports 4x FH & 2x LP expansion slots; optimized for 4x Double Width GPU Solution
- Redundant 2000W **Platinum Level** (94%+) high-efficiency power supplies
- 10x 2.5" hot-swap SAS / SATA HDD Bays; 5x 8cm heavy duty fans with intelligent cooling fan speed control
- Ideal for GPU Server, Mission-critical app., enterprise server, large database, e-business, on-line transaction processing, oil & gas, medical app.



SCR422BG-1**

4U rack mount chassis, 31.7" depth
(For Complete System Only)

- 4x 2200W Titanium Level power supplies - PWS-2K21A-2R, 4x Fan Modules
- 1x DP CPU node with 16x 2.5" Hot-swap SSD/HDD, 2x LP AOC, 1x GPU node supporting 8 SXM GPU, 4x LP AOC
- 16x 2.5" hot-swap SAS/SATA drive bay



MB Chassis	X11DPG-HGX2	X11DPG-SN**	X11DPG-OT-CPU**	X11DGQ**	X11DGO-T**
1U		● SC118GHTS-R1K66BP2**		● SC118GQE-R2K05** ● SC118GQP-R2K05** 1U Heatsink: SNK-P0067PS	
2U		● SC218GHTS-R2K03BP3**			
3U					
Mid/Mini-Tower					
4U/Tower			● SC418GTS-R4000BP2**		● SCR422BG-1** Heatsink: SNK-P0068APS4
10U	● SYS-9029GP-TNVRT** (10U system with 16 GPUs using NVLink and NVSwitch)				

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 product family and Intel® Xeon® Scalable processors

● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

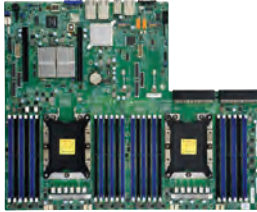
** For integration into SuperServer® systems only, not available for sale as subsystems.

STORAGE SERIES

(For Complete System Only)

NEW!

Intel® Xeon® Scalable processors Supported



MODEL	X11DPS-RE**	X11DPD-M25	X11DPD-L	X11DPX-T
Processor	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).
Chipset	Intel® C627	Intel® C621	Intel® C621	Intel® C621
Form Factor	Proprietary, 13.5" x 16.73" (34.29cm x 42.49cm)	Proprietary, 12" x 13" (30.48cm x 33.02cm)	E-ATX, 12" x 13" (30.48cm x 33.02cm)	Proprietary, 15.12" x 13.2" (38.4cm x 33.53cm)
Memory Capacity & Slots*	24 DIMM slots; Up to 6TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 3TB 3DS ECC LRDIMM, DDR4-2933MHz, in 16 DIMM slots; Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)	Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 3TB 3DS ECC LRDIMM, DDR4-2933MHz, in 12 DIMM slots; Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)	16 DIMM slots; Up to 4TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)
Expansion Slots	2 PCI-E 3.0 x16 (Low Profile), 4 PCI-E 3.0 x16 M.2 Interface: 2 PCI-E 3.0 x2 M.2 Form Factor: 2260/2280/22110 M.2 Key: M-Key *2 SATA Hybrid ports, RAID 0 & 1	1 PCI-E 3.0 x16 (Low Profile), 1 PCI-E 3.0 x8 Right Riser Slot, 2 PCI-E 3.0 x8 Proprietary Slot, 1 PCI-E 3.0 x16 Left Riser Slot, 1 PCI-E 3.0 x16 for Add-On-Module (AOM), 2 PCI-E 3.0 NVMe x4 Internal Port(s) M.2 Interface: 1 PCI-E 3.0 x4 and 1 PCI-E 3.0 x1 M.2 Form Factor: 2280 M.2 Key: M-Key U.2 Interface: 2 PCI-E 3.0 x4	1 PCI-E 3.0 x16 (HBA Add-On-Module), 1 PCI-E 3.0 x16 Left Riser Slot, 1 PCI-E 3.0 x24 Right Riser Slot, 1 PCI-E 3.0 x16 (Low Profile), 2 PCI-E 3.0 NVMe x4 Internal Port(s) M.2 Interface: 1 PCI-E 3.0 x4 and 1 PCI-E 3.0 x1 M.2 Form Factor: 2280 M.2 Key: M-Key U.2 Interface: 2 PCI-E 3.0 x4	2 PCI-E 3.0 x16, 8 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot) Or 4 PCI-E 3.0 x16 and 4 PCI-E 3.0 x8 and 1 PCI-E 3.0 x4 (in x8 slot) M.2 Interface: 1 PCI-E 3.0 x4 M.2 Form Factor: 2280, 22110 M.2 Key: M-Key
Onboard RAID Controller		Intel® C621 controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with 10GBase-T with Intel® X550	Dual LAN with SoC Mellanox CONNECTX-4 LX EN 25GbE		Dual LAN with Intel® X550 10GBase-T Ethernet Controller
Onboard VGA	1 VGA D-Sub Connector port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC	1 VGA D-Sub Connector port, ASPEED AST2500 BMC
USB Ports	2 USB 3.2 Gen1 ports (2 rear)	2 USB 2.0 ports (2 via headers), 2 USB 3.0 ports (2 rear)	2 USB 2.0 ports (2 via headers), 2 USB 3.0 ports (2 rear)	4 USB 2.0 ports (2 rear + 2 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)
Other Onboard I/O Devices	TPM 2.0 Header 2 COM Ports (1 rear, 1 header)	TPM 2.0 Header; MicroUSB	2 ports SuperDOM TPM 2.0 Header 1 COM Port (1 header)	2 ports SuperDOM TPM 2.0 Header 2 COM Ports (1 rear, 1 header)
Manageability	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, Chipset Voltage, Memory Voltages, Monitors CPU voltages, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, Memory Voltages, Monitors CPU voltages	+1.8V, +12V, +3.3V, +5V, +5V standby, Memory Voltages, Monitors CPU voltages	+1.8V, +12V, +3.3V, +5V, +5V standby, -fan status, 5+1 Phase-switching voltage regulator, Chassis intrusion header, HT, Supports system management utility, VBAT
Thermal Control			6x 4-pin fan headers (up to 6 fans), 6 fans with tachometer status monitoring, PWM fan speed control, Status monitoring for speed control	
Other Features	Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Innovation Engine, Intel® QuickAssist Technology, Node Manager Support, RoHS, RoHS, Halogen Free, System level control, UID, WOL	Chassis intrusion detection, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, RoHS, UID	Chassis intrusion detection, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, RoHS, UID	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS
BIOS	AMI UEFI	UEFI 256Mb	UEFI 256Mb	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

** For integration into SuperServer® systems only, not available for sale as subsystems.

† 2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro.

†† For 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake Refresh & Cascade Lake) only. Contact your Supermicro sales rep for more info.

OPTIMIZED CHASSIS AND ACCESSORIES

SC846XE2C/E1C/A

4U 13-Slot Storage Chassis with BBP® Support

- 100% cooling redundancy, supports up to 24 hot-swap SAS/SATA drive bays
- Redundant 1200W Titanium Level redundant cooling fans w/ adjustable air shroud
- E1C: Single SAS3 (12Gb/s) expander backplane; E2C: Dual SAS3 (12Gb/s) expander backplane
- MiniSAS HD (SFF 8643) connectivity (E1C/E2C)
- Can be configured as "JBOD or Headunit"
- Support two 1000W BBP
- Mini-iPass (SFF8087) connectivity (A model)



SC213XAC-R1K05LP

2U Chassis solution

- Direct-attached SAS3 backplane supporting 16x SAS3/SATA 2.5" Hot-swap HDDs
- Redundant 1000W Titanium Level (96%) power supplies
- 4x 80mm Hot-swap 7k RPM PWM fans with enhanced cooling design
- 1x Slim DVD-ROM Drive; 2x USB + 1x COM port (optional)
- 11 Slots Low-profile PCI expansion



Chassis	MB	X11DPS-RE**	X11DPD-M25	X11DPD-L	X11DPX-T
1U		● SC136HTS-R1K69P-R2** ● SC136HTS-R1K69P-P2**	● SC802TS-R804AMP	● SC802TS-R804AMP	
2U			● SCLA26TS-R1K62AMBP ● SCLA26TS-R751AMAP	● SCLA26TS-R1K62AMBP ● SCLA26TS-R751AMAP	● SC213XAC-R1K05LP 2U Heatsink: SNK-P0068PSC (Front) 2U Heatsink: SNK-P0068PS (Rear)
3U/ Mid-Tower					- SC835XTQ-R982B 2U Heatsink: SNK-P0068PS
4U/ Tower					- SC846XA-R1K23B - SC846XE1C-R1K23B - SC846XE2C-R1K23B 2U Heatsink: SNK-P0068PS

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 family.

● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

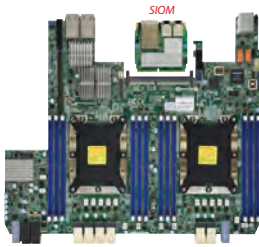
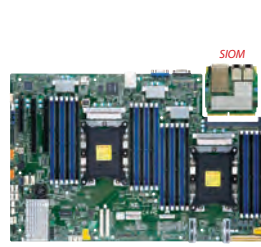
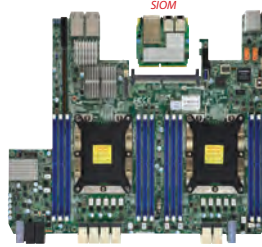
† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

** For integration into SuperServer® systems only, not available for sale as subsystems.

STORAGE SERIES

NEW!

Intel® Xeon® Scalable processors Supported

NVMe
SIOM LAN SupportIntel® Quick Assist Technology
SIOM LAN Support, NVMe

MODEL	X11DSN-TS	X11DSN-TSq	X11DSC+**	X11DSF-E**
Processor	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake Refresh).
Chipset	Intel® C624	Intel® C627	Intel® C621	Intel® C627
Form Factor	Proprietary, 11.5" x 13.9" (29.21cm x 35.31cm)	Proprietary, 11.5" x 13.9" (29.21cm x 35.31cm)	Proprietary, 16.9" x 11" (42.93cm x 27.94cm)	Proprietary, 16.337" x 17" (41.5cm x 43.18cm)
Memory Capacity & Slots*	Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 3TB 3DS ECC LRDIMM, DDR4-2933MHz, in 12 DIMM slots; Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)	Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 3TB 3DS ECC LRDIMM, DDR4-2933MHz, in 12 DIMM slots; Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)	24 DIMM slots; Up to 6TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)	24 DIMM slots; Up to 6TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)
Expansion Slots	2 PCI-E 3.0 x16 Left Riser Slot M.2 Interface: 1 PCI-E 3.0 x4 M.2 Form Factor: 2242/2260/2280 M.2 Key: M-Key 1 PCI-E 3.0 x16	2 PCI-E 3.0 x16 Left Riser Slot M.2 Interface: 1 PCI-E 3.0 x4 M.2 Form Factor: 2242/2260/2280 M.2 Key: M-Key 1 PCI-E 3.0 x16 connector for SMC add-on cards	2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x16 for Add-On-Module (AOM), 4 PCI-E 3.0 NVMe x4 Internal Port(s) 1 PCI-E 3.0 x16 connector for SMC add-on cards	1 PCI-E 3.0 x32 Left Riser Slot, 2 PCI-E 3.0 x4 (Low Profile), 4 PCI-E 3.0 x16
Onboard RAID Controller	Intel® PCH SATA controller for	Intel® PCH SATA controller for	Intel® C621 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10 Networking options provide via SIOM or AOC NIC	Intel® C627 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with 10GBase-T with Intel® X557	Dual LAN with 10GBase-T with Intel® X557		Dual LAN with 10GBase-T with Intel® X550
Onboard VGA	1 VGA D-Sub Connector port, ASPEED AST2500 BMC	1 VGA D-Sub Connector port, ASPEED AST2500 BMC	1 VGA D-Sub Connector port, ASPEED AST2500 BMC	1 VGA D-Sub Connector port
USB Ports	3 USB 3.2 Gen1 ports (2 rear + 1 Type A)	3 USB 3.2 Gen1 ports (2 rear + 1 Type A)	3 USB 3.2 Gen1 ports (2 rear + 1 Type A)	5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)
Other Onboard I/O Devices	TPM 2.0 Header 2 COM Ports (1 rear, 1 header)	TPM 2.0 Header 2 COM Ports (1 rear, 1 header)	TPM 2.0 Header 1 COM Port (1 rear)	TPM 2.0 Header 1 COM Port (1 header)
Manageability	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, SuperDoctor® III, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.35V, +1.5V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), Memory Voltages, Monitors CPU voltages, VBAT	+1.35V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), Memory Voltages, Monitors CPU voltages, VBAT	+1.8V, +3.3V, +5V, +5V standby, 5 (4-pin), 5+1 Phase-switching voltage regulator, Chassis intrusion header, Chipset Voltage, Supports system management utility, VBAT	+1.5V, +1.8V, +12V, +3.3V, +5V, +5V standby, Chipset Voltage, Memory Voltages, Monitors CPU voltages, VBAT
Thermal Control				8x 4-pin fan headers (up to 8 fans), 8x fans with tachometer monitoring, Fan speed control, Overheat LED indication, Pulse Width Modulated (PWM) fan connectors Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Innovation Engine, Intel® QuickAssist Technology, Node Manager Support, RoHS, RoHS, Halogen Free, UID, WOL
Other Features	Chassis intrusion detection, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Innovation Engine, Node Manager Support, RoHS, RoHS, Halogen Free, UID, WOL	Chassis intrusion detection, Control of power-on for recovery from AC power loss, Innovation Engine, Intel® QuickAssist Technology, M.2 NGFF connector, Node Manager Support, RoHS, RoHS, Halogen Free, UID, WOL	Chassis intrusion detection, Chassis intrusion header, RoHS	Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Innovation Engine, Intel® QuickAssist Technology, Node Manager Support, RoHS, RoHS, Halogen Free, System level control, UID, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

** For integration into SuperServer® systems only, not available for sale as subsystems.

† 2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro.

†† For 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake Refresh & Cascade Lake) only. Contact your Supermicro sales rep for more info.

OPTIMIZED CHASSIS AND ACCESSORIES

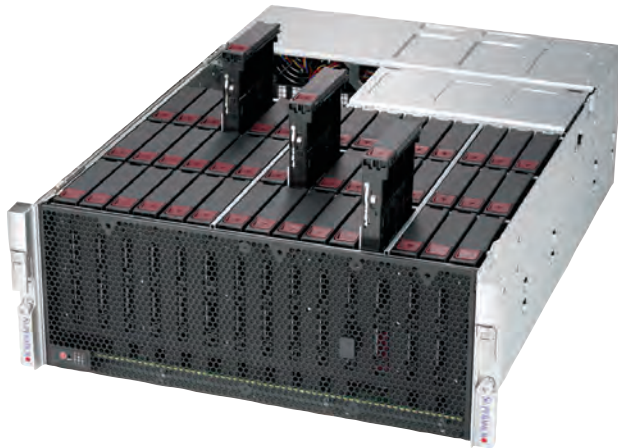
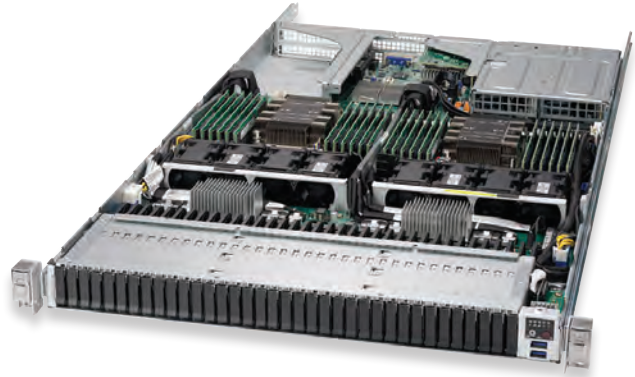
SC121NF-R1K62P**

SSG-1029P-NMR36L

(For Complete System Only)

IOPS Intensive Storage App., Database App. (MySQL, Casandra),
Hyperconverged Infrastructure / Scale-out Architectures

- Dual socket P (LGA 3647) supports Intel® Xeon® Scalable processors, 3 UPI up to 10.4GT/s
- Up to 3TB ECC 3DS LRDIMM, up to DDR4-2666MHz; 24 DIMM slots
- 2 PCI-E 3.0 x16 slots, 1 PCI-E 3.0 x4 slot
- 32 Hot-swap NGSFF drive bays, 4 hybrid PCI-E NGSFF; or, SATA3 M.2 drive bays
- 2x 10GBase-T LAN ports via Intel® X550
- 8 Heavy duty 4cm counter-rotating fans with air shroud
- 1600W Redundant power supplies **Titanium Level** (96%)



SC946LE1C-R1K66**

SSG-5049P-E1CR45L/H

(For Complete System Only)

Short-Depth JBOD Storage, Up to 45x 3.5" Top-Loading Hot-Swap HDDs in 4U

- Support 45 x 3.5" Top Loading SAS/SATA 12Gb/s hot swap HDD/SSD Bays
- Short depth to fit into standard rack
- Tool-less HDD tray with HDD LED indicator
- Support standard UP Motherboard
- 1600W Redundant High-efficiency **Platinum Level** power supplies
- Optional rear dual 2.5" HDD kit for mirrored OS
- Optional rear dual 2.5" **NVMe** Drive Bay
- Optimized cooling w/ 5x 80x38mm rear hot-swap fans
- 7x Low-profile expansion slots



Chassis \ MB	X11DSN-TS	X11DSN-TSq	X11DSC+**	X11DSF-E**
1U				● SC121NF-R1K62P**
2U	● SC227N-R2K053	● SC227RN-R2K05	● SC226SE1C8-R1K62** ● SC826SE1C4-R1K62**	
3U/ Mid-Tower				
4U/ Tower			● SC946LE1C-R1K66**	

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 family.

● Most Optimized Chassis for SuperServer Configuration

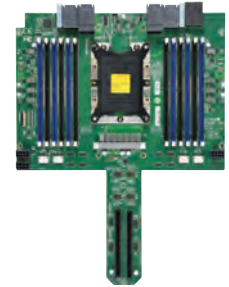
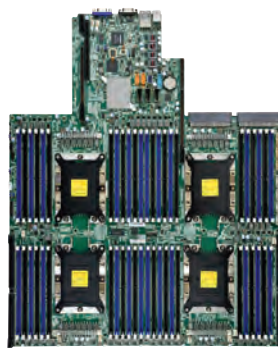
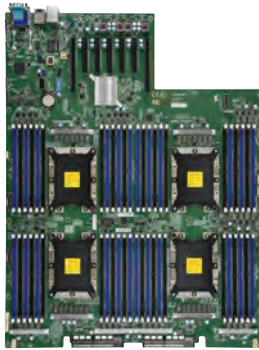
* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

** For integration into SuperServer® systems only, not available for sale as subsystems.

MP SERIES

Support up to Highest Performing 205W TDP CPUs, Up to 24TB/12TB in DDR4 96/48 DIMM slots
(For Complete System Only)



MODEL	X11QPL	X11QPH+** (4-way)	X11OPi-CPU** (8-way)
Processor	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Quad Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s.	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Quad Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s.	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Octal Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s.
Chipset	Intel® C621	Intel® C621	Intel® C621
Form Factor	Proprietary, 16.8" x 23.35" (42.67cm x 59.31cm)	Proprietary, 16.8" x 20.5" (42.67cm x 52.07cm)	Proprietary, 11" x 14.33" (27.94cm x 36.4cm)
Memory Capacity & Slots*	Up to 12TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 12TB 3DS ECC LRDIMM, DDR4-2933MHz Up to 12TB 3DS ECC Intel® Optane™ Persistent Memory 200 Series, DDR4-2666MHz, in 48 DIMM slots	48 DIMM slots Up to 12TB DDR4-2933 MHz† with 256GB memory modules Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM Supports Intel® Optane™ DCPMM†† (128/256/512GB)	8 CPU modules, 96 DIMM slots Up to 24TB DDR4-2933 MHz† with 256GB memory modules Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM Supports Intel® Optane™ DCPMM†† (128/256/512GB)
Expansion Slots	5 PCI-E 3.0 x8, 2 PCI-E 3.0 x16, 8 PCI-E 3.0 NVMe x4 External Port(s) M.2 Interface: 2 SATA/PCI-E 3.0 x4 M.2 Form Factor: 2280/22110 M.2 Key: M-Key	1 PCI-E 3.0 x32 Left Riser. 1 PCI-E 3.0 x40 Ultra Riser. 1 PCI-E 3.0 x8 in x16 slot rear Middle Riser. 1 PCI-E 3.0 x32 for 2U (or x48+x8 for 4U) on front for NVMe card support. 1 PCI-E 3.0 (x32 for 2U or x48 for 4U) on front for NVMe card support.	2 PCI-E 3.0 x16, 4 PCI-E 3.0 NVMe x4 Internal Port(s) M.2 Interface: 2 SATA/PCI-E 3.0 x4, RAID 0 & 1 M.2 Form Factor: 2260/2280/22110 (M.2 slots on PCH board) U.2 Interface: 4 PCI-E 3.0 x4
Onboard RAID Controller	Intel® C621 controller for 2 SATA3 (6 Gbps) ports; RAID 0,1	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10 (on Storage board)
Onboard LAN	Single LAN with GbE from C621	Networking options provided via Ultra Riser	Quad LAN with Intel® X550 10GBase-T Ethernet Controller (on PCH board)
Onboard VGA	1 VGA port,	1 VGA port, ASPEED AST2500 BMC	1 VGA D-Sub Connector port, (on PCH board), ASPEED AST2500 BMC
USB Ports	1 USB 3.2 Gen1 ports (1 via header)	2 USB 2.0 ports (2 via headers) 3 USB 3.2 Gen1 ports (2 rear + 1 Type A)	2 USB 2.0 ports (2 via headers) 1 USB 3.2 Gen1 ports (+ 1 Type A); (on PCH board)
Other Onboard I/O Devices	TPM 2.0 Header 1 COM Port	TPM 2.0 Header 1 COM Port (1 rear)	(TPM header on PCH board)
Manageability	IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, NMI, SUM, SuperDoctor® 5, Watchdog	IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor® 5, Watchdog	IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SUM, SuperDoctor® 5
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, 4 - fan status, 5 Phase-switching voltage regulator, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, 4 - fan status, 5 Phase-switching voltage regulator, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, VBAT	+12V, +3.3V, +5V, 1.05 (PCH), 1.2V (VDIMM), 8 - fan status, Monitors CPU voltages (on PCH board)
Thermal Control			8x 4-pin fan headers (up to 8 fans), 8x fans with tachometer monitoring, PWM fan speed control (on BPN-X11OPi board)
Other Features	RoHS, Halogen Free, SDDC	4x 8-pin GPU power connectors, RoHS, Halogen Free, SDDC	4x 8-pin GPU power connectors, RoHS, Halogen Free, SDDC, UID
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

** For integration into SuperServer® systems only, not available for sale as subsystems.

† 2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro.

†† For 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake Refresh & Cascade Lake) only. Contact your Supermicro sales rep for more info.

OPTIMIZED CHASSIS AND ACCESSORIES

SYS-2049U-TR4**

(For Complete System Only)

Ultra 2U 4-Way, Up to 112 cores, 11 PCI-E 3.0 slots, 4 NVMe/24 2.5" SAS3 option



- Intel® Xeon® Scalable processors (Cascade Lake Refresh / Cascade Lake / Skylake), Quad Socket P (LGA 3647) supported, CPU TDP support 205W, 3 UPI up to 10.4GT/s
- Up to 12TB DDR4-2933 MHz† with 256GB memory modules in 48 DIMM slots; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)
- 2 LPHL PCI-E 3.0 x16 (Left-internal) + 2 LPHL PCI-E 3.0 x16 (Right-internal), 2 Double Width FH PCI-E 3.0 x16 (Rear) + 1 LPHL PCI-E 3.0 x8 (Rear) + 2 FHFL PCI-E 3.0 x8 (Rear) + 2 FHHL PCI-E 3.0 x8 (Rear)
- 4 x Gigabit Ethernet ports via AOC-2UR66-i4G; 1 dedicated IPMI LAN port
- 24 hot-swap 2.5" SAS3/SATA3 drives supported via optional; Add-on RAID controller card; 4 Hybrid ports with NVMe; supported via optional Add-on card
- 1600W Redundant **Titanium Level** (96%) power supplies



SYS-8049U-E1CR4T**

(For Complete System Only)

4U 4-Way, up to 112 cores, 16 PCI-E 3.0 slots, 8 NVMe/24 3.5" SAS3 option



- Intel® Xeon® Scalable processors (Cascade Lake Refresh / Cascade Lake / Skylake), Quad Socket P (LGA 3647) supported, CPU TDP support 205W, 3 UPI up to 10.4GT/s
- Up to 12TB DDR4-2933 MHz† with 256GB memory modules in 48 DIMM slots; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)
- 2 LPHL PCI-E 3.0 x16 (Left-internal) + 2 LPHL PCI-E 3.0 x16 (Right-internal), 2 Double Width FH PCI-E 3.0 x16 (Rear) + 1 LPHL PCI-E 3.0 x8 (Rear) + 2 FHFL PCI-E 3.0 x8 (Rear) + 2 FHHL PCI-E 3.0 x8 (Rear)
- 24 hot-swap 3.5" SAS3/SATA3 drives supported via optional; Add-on RAID controller card; 8 Hybrid ports with NVMe supported via optional Add-on card
- (3+1) Redundant 1600W **Platinum Level** power supplies



SYS-7089P-TR4T**

(For Complete System Only)

7U 8-Way, Up to 224 cores per system, 23 PCI-E 3.0 slots, 41 NVMe/24 SAS3 option



- Intel® Xeon® Scalable processors (Cascade Lake Refresh / Cascade Lake / Skylake), Octal Socket P (LGA 3647) supported, CPU TDP support 205W, 3 UPI up to 10.4GT/s
- 8 CPU modules, 96 DIMM slots; Up to 24TB DDR4-2933 MHz† with 256GB memory modules; Supports RDIMM, LRDIMM, 3DS RDIMM, and 3DS LRDIMM; Supports Intel® Optane™ DCPMM†† (128/256/512GB)
- 23 or 39 (OEM) PCI-E 3.0 slots include 8 FH x16 PCI-E cards or 8 GPUs or 16 U.2 NVMe + 8 FHFL x16 PCI-E cards or 16 U.2 NVMe + 2 LP x8 (in x16 slot) PCI-E internal cards (storage module) + 5 FHHL x16 PCI-E cards (rear)
- 4-port 10GBASE-T Ethernet SIOM (Intel® X550 10GbE controller), 1 VGA, 2 USB 2.0, 1 COM via KVM
- 16 hot swap 2.5" SAS3 HDDs (w/ RAID cards) 8 2.5" or 6 3.5" internal HDDs (w/ RAID cards)
- 8x 9cm Hot-swap counter-rotating rear fans
- 5x 1600W (N+2) Redundant **Titanium Level** (96%) power supplies



Chassis	MB	X11QPL**	X11QPH+**	X11OPi-CPU**
2U		SYS-2049P-TN8R** (For Supermicro Complete System Only)	SC218UAC4-R1K62** (For Supermicro Complete System Only)	
4U			SC848UAC8-R4800** (For Supermicro Complete System Only)	
7U				SC718SAC-R4800** (For Supermicro Complete System Only)

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 family.

● Most Optimized Chassis for SuperServer® Configuration

* Heatsinks & Riser Cards sold separately

** For integration into SuperServer® systems only, not available for sale as subsystems.

† 2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro.

†† For 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake Refresh & Cascade Lake) only. Contact your Supermicro sales rep for more info.

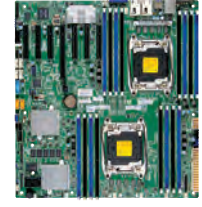
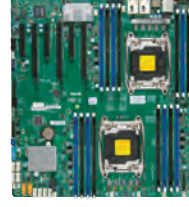
Broadcom® 3108
SAS3 HW RAID
Quad 10GBase-T
24 DIMMs

Quad 10GBase-T
24 DIMMs

6 PCI-E 3.0 slots,
Dual 10GBase-T

Quad 1GbE LAN
Broadcom® 3008
SAS3 SW RAID

7 PCI-E 3.0 slots
Broadcom® 3108 SAS3 HW RAID,
Dual 10GBase-T



MODEL	X10DRC-T4+ X10DRC-LN4+	X10DRi-T4+ X10DRi-LN4+	X10DRi X10DRi-T	X10DRH-iLN4 X10DRH-CLN4	X10DRH-C(T) X10DRH-i(T)
Processor†	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
Form Factor	E.E. ATX 13.68" x 13"	E.E. ATX 13.68" x 13"	E. ATX 12" x 13"	E. ATX 12" x 13"	E. ATX 12" x 13"
Memory Capacity & Slots*	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 3 PCI-E 3.0 x8 1 PCI-E 2.0 x4 (in x8 slot)	2 PCI-E 3.0 x16 3 PCI-E 3.0 x8 1 PCI-E 2.0 x4 (in x8 slot)	3 PCI-E 3.0 x16 3 PCI-E 3.0 x8	2 PCI-E 3.0 x16 4 PCI-E 3.0 x8 1 PCI-E 3.0 x4	1 PCI-E 3.0 x16 6 PCI-E 3.0 x8
Onboard RAID Controller	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10; Broadcom® 3108 HW with 2G Cache controller for 8 SAS3 (12Gb/s) ports; RAID 0,1,5,6,10,50,60 SuperCap option support; supports up to 16 drives**	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10	Intel® C612 controller for 6 SATA3 (6Gb/s) ports; 4 SATA3 (6Gb/s) RAID 0,1,10 Broadcom® 3008 SW controller for 8 SAS3 (12Gb/s) ports; RAID 0,1,10	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10; Broadcom® 3108 HW with 2G Cache controller for 8 SAS3 (12Gb/s) ports; RAID 0,1,5,6,10,50,60 (-C SKU only)
Onboard LAN	-T4+: Quad LAN with Intel® X540 10GBase-T Ethernet Controller; -LN4+: Quad LAN with Intel® i350 Gigabit Ethernet Controllers	-T4+: Quad LAN with Intel® X540 10GBase-T Ethernet Controller; -LN4+: Quad LAN with Intel® i350 Gigabit Ethernet Controllers	Dual LAN with Intel® i350 Gigabit Ethernet Controllers -T: Dual LAN with Intel® X540 10GBase-T Ethernet Controller	Quad LAN with Intel® i350 Gigabit Ethernet Controllers;	Dual LAN with Intel® i350 Gigabit Ethernet Controllers; -T: Dual LAN with 10GBase-T with Intel® X540 10GbE Controller
Onboard VGA	AST2400 VGA	AST2400 VGA	AST2400 VGA	AST2400 VGA	AST2400 VGA
USB Ports	5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	5 USB 3.0 ports (2 rear + 2 via headers + 1 Type A) 6 USB 2.0 ports (2 rear + 4 via headers)	4 USB 3.0 ports (2 rear + 1 via header + 1 Type A) 4 USB 2.0 ports (2 rear + 2 via headers)	5 USB 3.0 ports (2 rear + 2 via headers + 1 Type A) 4 USB 2.0 ports (2 rear + 2 via headers)
Other Onboard I/O Devices	2 SuperDOM ports TPM module header 2 COM Ports (1 rear, 1 header)	2 SuperDOM ports TPM module header 2 COM Ports (1 rear, 1 header)	2 SuperDOM ports TPM module header 2 COM Ports (1 rear, 1 header)	TPM module header	2 SuperDOM ports TPM module header 2 COM Ports (1 rear, 1 header)
Manageability	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V Standby, 3.3v standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V Standby, 3.3v standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V Standby, 3.3v standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V standby, 3.3V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V standby, 3.3V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility
Thermal Control	8 4-pin, Overheat LED indication, PWM fan speed control, System level control	8 4-pin, Overheat LED indication, PWM fan speed control, System level control	8 4-pin, Overheat LED indication, PWM fan speed control, System level control	8 4-pin, Overheat LED indication, PWM fan speed control, System level control	8 4-pin, Overheat LED indication, PWM fan speed control, System level control
Other Features	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL, UID	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL, UID	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

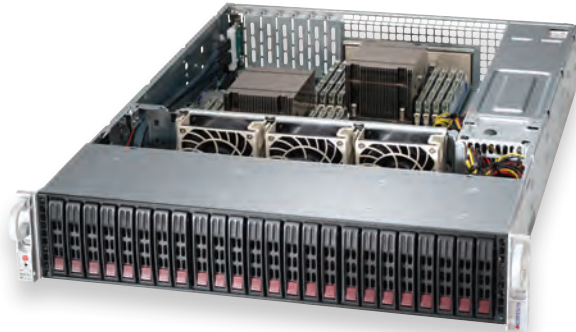
** For integration into SuperServer® systems only, not available for sale as subsystems.

OPTIMIZED CHASSIS AND ACCESSORIES

SC216BE1C/BE2C-R920LPB

2U Storage Chassis with 24x 2.5" HDDs and
SAS3 12Gb/s Technology

- 24x 2.5" hot-swap SAS3 drive bays, and optional rear 2.5" HDD
- Single/Dual SAS3 (12Gb/s) expander w/ MiniSAS HD connector
- 920W Redundant high-efficiency Platinum Level power supplies
- Optimized cooling w/ 3x 80x38mm hot-swap fans;
optional 5x60mm middle fan kit
- 7x low-profile expansion slots



SC846BE1C-R1K28B

4U chassis with 100% Cooling Redundancy, Highly Reliable, Available
and Scalable Storage

- 24x 3.5" hot-swap SAS3 drive bays; optional rear 2x 2.5 HDD with SES-II
- Single/Dual SAS3 (12Gb/s) expander w/ MiniSAS HD connector
- Redundant 1280W Platinum Level (94%+) power supplies w/ PMBus
- 5 hot-plug redundant cooling fans w/ adjustable air shroud
- 7 full-height full-length expansion slots



Chassis	MB	X10DRC-T4+ X10DRC-LN4+	X10DRi-T4+ X10DRi-LN4+	X10DRi X10DRi-T	X10DRH-iLN4 X10DRH-CLN4	X10DRH-C(T) X10DRH-i(T)
2U		● SC216BAC-R920LPB ● SC826BAC4-R920LPB ● SC826BE1C-R920LPB ● SC216BE1C-R920LPB ● SC826BE2C-R920LPB ● SC216BE2C-R920LPB 2U Heatsink: SNK-P0048P	● SC216BAC-R920LPB ● SC825MBTQC-R802LPB ● SC823MTQ-R802LPB ● SC826BAC4-R920LPB ● SC826BE1C-R920LPB ● SC216BE1C-R920LPB ● SC826BE2C-R920LPB ● SC216BE2C-R920LPB ● SC825TQ-R740LPB ● SC826BA-R920LPB ● SC216BA-R920LPB ● SC213A-R740LPB 2U Heatsink: SNK-P0048P	● SC823TQ-653LPB ● SC825MBTQC-R802LPB ● SC823MTQ-R802LPB ● SC825TQ-R740LPB ● SC826BA-R920LPB ● SC826BE1C-R920LPB ● SC216BE1C-R920LPB ● SC826BE2C-R920LPB ● SC216BE2C-R920LPB ● SC213A-R740LPB ● SC216BA-R920LPB 2U Heatsink: SNK-P0048PS	● SC826BE1C-R920LPB ● SC826BE2C-R920LPB ● SC826BAC-R920LPB ● SC216BE1C-R920LPB ● SC216BE2C-R920LPB 2U Heatsink: SNK-P0048PS	● SC826BE1C-R920LPB ● SC826BE2C-R920LPB ● SC826BAC-R920LPB ● SC216BE1C-R920LPB ● SC216BE2C-R920LPB 2U Heatsink: SNK-P0048PS
3U/ Mid-Tower		● SC836BE1C-R1K03B ● SC835BTQ-R1K28B 2U Heatsink: SNK-P0048P	● SC836BE1C-R1K03B ● SC835BTQ-R1K28B ● SC835TQ-R920B ● SC836BA-R920LPB 2U Heatsink: SNK-P0048P	● SC835TQ-R920B ● SC836BA-R920LPB 2U Heatsink: SNK-P0048PS	● SC836BE1C-R1K03B ● SC836BE2C-R1K03B ● SC835TQ-R920B 2U Heatsink: SNK-P0048PS	● SC836BE1C-R1K03B ● SC836BE2C-R1K03B ● SC835TQ-R920B 2U Heatsink: SNK-P0048PS
4U/ Tower		● SC846BE1C-R1K28B ● SC847BE1C-R1K28LPB ● SC745TQ-R920LPB 2U Heatsink: SNK-P0048P	● SC846BE1C-R1K28B ● SC847BE1C-R1K28LPB ● SC745TQ-R920B ● SC846BA-R920B 2U Heatsink: SNK-P0048P	● SC743TQ-1200B ● SC842TQ-865B ● SC846BA-R920B ● SC846BE1C-R1K28B ● SC847BE1C-R1K28LPB ● SC847BE2C-R1K28LPB ● SC417BE1C-R1K28LPB ● SC417BE2C-R1K28LPB ● SC417BE2C-R1K28LPB 2U Heatsink: SNK-P0048PS	● SC745TQ-R920B ● SC743TQ-1200B ● SC847BE1C-R1K28LPB ● SC847BE2C-R1K28LPB ● SC417BE1C-R1K28LPB ● SC417BE2C-R1K28LPB 2U Heatsink: SNK-P0048PS	● SC745TQ-R920B ● SC743TQ-1200B ● SC846BE1C-R1K28B ● SC847BE1C-R1K28LPB ● SC847BE2C-R1K28LPB ● SC417BE1C-R1K28LPB ● SC417BE2C-R1K28LPB 2U Heatsink: SNK-P0048PS

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 family.

● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

** For integration into SuperServer® systems only, not available for sale as subsystems.

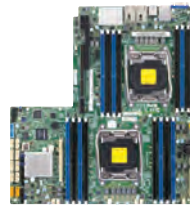
2400MHz DDR4
Datacenter Optimized
Dual 10GbE/1G
2 Ports NVMe



2400MHz DDR4
Datacenter Optimized
Dual 10G SFP+
Power Optimized (-LTP)
2 Ports NVMe



12" x 13"
W/O, Dual 10GbE
SAS3 AOM



16 DIMMs
2400MHz DDR4
W/O, 2 Ports NVMe



Datacenter Optimized
3 AOC in 1U
SAS3 AOM Support
4 Ports NVMe
Power Optimized (-iN)



MODEL	X10DRD-L(T) X10DRD-i(T) X10DRD-iNT	X10DRD-LTP X10DRD-iTP X10DRD-iNTP	X10DRW-i X10DRW-iT	X10DRW-E(T) X10DRW-N(T)	X10DDW-i X10DDW-iN
Processor†	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
Form Factor	Proprietary 10.5" x 13.05"	Proprietary 10.5" x 13.05"	Proprietary 12.3" x 13"	Proprietary 12.3" x 13"	Proprietary 12.8" x 13.4"
Memory Capacity & Slots*	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	-L(T): 1 PCI-E 3.0 x8 -i(N)(T): 4 PCI-E 3.0 x8	-LTP: 1 PCI-E 3.0 x8 -iTP/ iNTP: 4 PCI-E 3.0 x8	1 PCI-E 3.0 x32 Left Riser Slot 1 PCI-E 3.0 x16 Right Riser Slot 1 PCI-E 3.0 x16 for SAS3 AOM	1 PCI-E 3.0 x32 Left Riser Slot	1 PCI-E 3.0 x32 Left Riser Slot 1 PCI-E 3.0 x8 Right Riser Slot 1 PCI-E 3.0 x8 for SAS3 AOM
Onboard RAID Controller	-L(T): Intel® C612 controller for 6 SATA3 (6Gb/s) ports; RAID 0,1,5,10 -i(N)(T): Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10	-LTP: Intel® C612 controller for 6 SATA3 (6Gb/s) ports; RAID 0,1,5,10; -iNTP: Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10
Onboard LAN	Single LAN with Virtual Machine Device Queues reduce I/O overhead; Single LAN with Supports 10Base-T, 100BASE-TX, and 1000BASE-T. RJ45 output Single LAN with 1 Realtek RTL8211E PHY (dedicated IPMI) -L/i: Dual LAN with Intel® i350 Gigabit Ethernet Controller -LT/iT/iNT: Dual LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with Intel® 82599ES 10 Gigabit Ethernet w/ SFP+ Single LAN with Virtual Machine Device Queues reduce I/O overhead; Single LAN with Realtek RTL8201N PHY (dedicated IPMI) -iTP/iNTP: Single LAN with 10G SFP+	-i: Dual LAN with Intel® i350 Gigabit Ethernet Controllers -iT: Dual LAN with Intel® X540 10GBase-T Ethernet Controller	-E/N: Dual LAN with Intel® i350 Gigabit Ethernet Controllers -ET/NT: Dual LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with Intel® i350 Gigabit Ethernet Controllers
Onboard VGA	AST2400 VGA	AST2400 VGA	AST2400 VGA	AST2400 VGA	AST2400 VGA
USB Ports	7 USB 2.0 ports (4 rear + 2 via headers + 1 Type A)	7 USB 2.0 ports (4 rear + 2 via headers + 1 Type A)	6 USB 3.0 ports (4 rear + 2 via headers)	2 USB 3.0 ports (headers), and 4 USB 2.0 ports (rear)	3 USB 3.0 ports (2 rear + 1 Type A) 4 USB 2.0 ports (2 rear + 2 via headers)
Other Onboard I/O Devices	2 SuperDOM ports TPM module header 2 COM Ports (1 rear, 1 header) -iNT: 2x PCI-E 3.0 NVMe x4 Internal Ports	2 SuperDOM ports TPM module header 2 COM Ports (1 rear, 1 header) -iNTP: 2x PCI-E 3.0 NVMe x4 Internal Ports	2 SuperDOM ports TPM module header 1 COM port (1 header)	2 SuperDOM ports TPM onboard Header 1 COM Ports (1 header) -N(T): 2x PCI-E 3.0 NVMe x4 Internal Ports	2 SuperDOM ports TPM module header 1 COM port (1 header) -iN: 4 ports internal NVMe
Manageability	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SSM, SuperDoctor® 5, Watchdog	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, 3.3V standby, Chassis intrusion header, Monitors CPU voltages, System level control	+12V, +3.3V, +5V, +5V standby, 3.3V standby, Chassis intrusion header, Monitors CPU voltages, System level control	+12V, +3.3V, +5V, +5V Standby, 3.3v standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V standby, 3.3V standby, Chassis intrusion header, Monitors CPU voltages, System level control	+12V, +3.3V, +5V, +5V standby, 3.3V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility
Thermal Control	8 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	8 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	8 4-pin, Overheat LED indication, PWM fan speed control, System level control
Other Features	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL, UID AMI UEFI	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL, UID AMI UEFI	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL, UID AMI UEFI	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL, UID AMI UEFI	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL, UID AMI UEFI
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

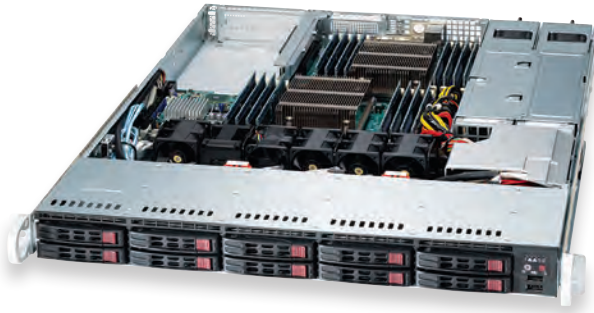
** For integration into SuperServer® systems only, not available for sale as subsystems.

OPTIMIZED CHASSIS AND ACCESSORIES

SC116AC2-R706WB

An efficient 1U rackmount design optimized for best price/performance

- Redundant 750W/700W **Platinum/Gold Level** power supplies with PMBus function
- 10x hot-swap 2.5" SAS/SATA HDD bays
- AC2: 8x **SAS3** 12Gb/s + 2x **NVMe**/SAS2/SATA3 2.5" drive bays
- AC: 8x **SAS3** 12Gb/s + 2x SAS2/SATA3 6Gb/s 2.5" drive bays
- 2x full-height and 1x low-profile expansion slots



SC213A-R740WB

2U chassis supports Supermicro proprietary WIO motherboards

- 740W Redundant **Platinum Level** (94%) power supplies
- 16x 2.5" hot-swap SAS/SATA HD bays
- 1x Slim DVD-ROM Drive (optional); 2x USB + 1x COM port (optional)
- 3x 80mm 7K RPM PWM fans
- Mini-I-pass connectivity
- Adjustable Air Shroud
- Power switch & 6x LED indicators



MB Chassis	X10DRD-L(N)(T) X10DRD-i(N)(T)	X10DRD-LTP X10DRD-iTP X10DRD-iNTP	X10DRW-i X10DRW-iT	X10DRW-E(T) X10DRW-N(T)	X10DDW-i X10DDW-iN
1U	● SC514-441 ● SC514-R400C ● SC514-505 ● SC813T-441CB ● SC813LT-350CB ● SC813LT-R500CB 1U Heatsink: SNK-P0047PS	● SC514-441 ● SC514-R400C ● SC514-505 ● SC815TQ-600CB ● SC815TQ-R500CB 1U Heatsink: SNK-P0047PS	● SC116TQ-R700WB ● SC116AC-R700WB ● SC116AC2-R706WB ● SC113TQ-R700WB ● SC815TQ-600WB ● SC815TQ-600WB ● SC113TQ-600WB ● SC815TQ-R706WB 1U Heatsink: SNK-P0047PSC (Front) 1U Heatsink: SNK-P0057PS (Rear)	● SC116TQ-R700WB ● SC116AC2-R706WB ● SC113TQ-R700WB ● SC815TQ-600WB ● SC113TQ-600WB ● SC815TQ-R706WB ● SC514-R400W 1U Heatsink: SNK-P0047PSC (Front) 1U Heatsink: SNK-P0057PS (Rear)	● SC113TQ-600WB ● SC815TQ-600WB ● SC8015FT-656D** ● SC8015T-656D** 1U Heatsink: SNK-P0047PS
2U			● SC825TQ-R740WB ● SC825MBTQC-R802WB ● SC823MTQ-R802LPB ● SC826BA-R920WB ● SC826BAC4-R920WB ● SC213A-R740WB ● SC216BA-R920WB 2U Heatsink: SNK-P0048PS (Front) 2U Heatsink: SNK-P0048PSC (Rear)	● SC825TQ-R740WB ● SC825MBTQC-R802WB ● SC823MTQ-R802WB ● SC826BA-R920WB ● SC826BAC4-R920WB ● SC213A-R740WB ● SC216BA-R920WB 2U Heatsink: SNK-P0048PS (Front) 2U Heatsink: SNK-P0048PSC (Rear)	● SC825TQ-R740WB ● SC826BA-R920WB ● SC826BAC4-R920WB ● SC213A-R740WB ● SC216BA-R920WB 2U Heatsink: SNK-P0048PS

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 family.

● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

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*TwinPro
SIOM Ready*



*TwinPro
56/40Gb InfiniBand/
Dual 10GbE*



*Twin
2400MHz DDR4
56/40Gb InfiniBand
Power Optimized(-H)*



*1U Twin
2400MHz DDR4
6Gb/s SATA3*

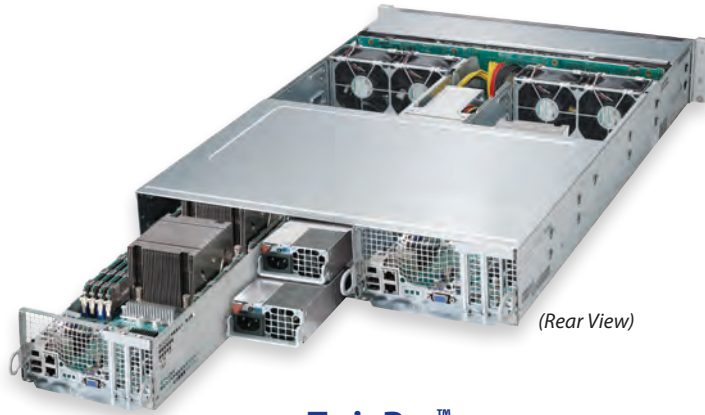


MODEL	X10DRT-PS**	X10DRT-P** X10DRT-PT** X10DRT-PIBQ** X10DRT-PIBF**	X10DRT-H** X10DRT-HIBF**	X10DRT-L X10DRT-LIBQ X10DRT-LIBF
Processor†	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
Form Factor	Proprietary 6.8" x 18.64"	Proprietary 6.8" x 18.64"	Proprietary 6.5" x 16.64"	Proprietary 6.5" x 16.64"
Memory Capacity & Slots*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 1 PCI-E 3.0 x8 Proprietary Slot 1 PCI-E 3.0 x8 connector for Supermicro add-on cards 1 PCI-E 3.0 x16 connector for Supermicro add-on cards	1 PCI-E 3.0 x16 1 PCI-E 3.0 x8 1 PCI-E 3.0 x8 connector for Supermicro add-on cards 1 PCI-E 3.0 x16 connector for Supermicro add-on cards	1 PCI-E 3.0 x16 2 PCI-E 3.0 x8 connector for Supermicro add-on cards	1 PCI-E 3.0 x16 (in x16 slot)
Onboard RAID Controller	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10	Intel® C612 controller for 8 SATA3 (6Gb/s) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10
Onboard LAN	Provided by SIOM Add-on-Module	Dual LAN with Intel® i350 Gigabit Ethernet Controllers -PT: Dual LAN with Intel® X540 10GBase-T Ethernet Controller -PIBQ: 1 Mellanox Connect-X3 QDR, QSFP connector (40Gb) -PIBF: 1 Mellanox Connect-X3 FDR, QSFP connector (56Gb)	Dual LAN with Intel® Ethernet Controller i350-AM2; -HIBF: 1 Mellanox Connect-X3 FDR, QSFP connector (56Gb)	Dual LAN with Intel® Ethernet Controller i350-AM2; -LIBQ: 1 Mellanox Connect-X3 QDR, QSFP connector (40Gb) -LIBF: 1 Mellanox Connect-X3 FDR, QSFP connector (56Gb)
Onboard VGA	AST2400 VGA	AST2400 VGA	AST2400 VGA	AST2400 VGA
USB Ports	2 USB 3.0 ports (2 rear)	3 USB 3.0 ports (2 rear + 1 Type A)	2 USB 3.0 ports (2 rear)	2 USB 2.0 ports (2 rear) 1 USB 3.0 Type A (internal)
Other Onboard I/O Devices	1 SuperDOM port TPM module header 1 COM port (1 header)	1 SuperDOM port TPM module header 1 COM port (1 header)	2 SuperDOM ports 1 fast UART 16550 serial; TPM onboard Header 1 COM Ports (1 rear)	2 SuperDOM ports TPM module header 1 COM Ports (1 rear)
Manageability	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control	+12V, +3.3V, +5V, +5V Standby, 3.3v standby, Monitors CPU voltages, Supports system management utility	+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, Monitors CPU voltages, Supports system management utility, System level control	+12V, +3.3V, +5V, +5V standby, 3.3V standby, Monitors CPU voltages, System level control
Thermal Control	Overheat LED indication, PWM fan speed control, System level control	Overheat LED indication, PWM fan speed control, System level control	1 4-pin, Overheat LED indication, PWM fan speed control, System level control	3 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors
Other Features	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL, UID	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL, UID	ACPI power management, Control of power-on for recovery from AC power loss, Node Manager Support, UID, WOL	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, Node Manager Support, SDDC
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

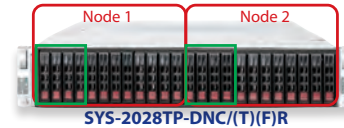
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OPTIMIZED CHASSIS AND ACCESSORIES



(Rear View)

TwinPro™



SYS-2028TP-DNC/(T)(F)R
Up to 4x NVMe + 8x SAS 3.0 drives (per node)

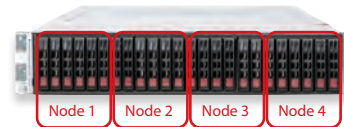


SYS-6028TP-DNC/(T)(F)R
Up to 4x NVMe + 2x SAS 3.0 drives (per node), or
Up to 6x SAS 3.0 support (per node)

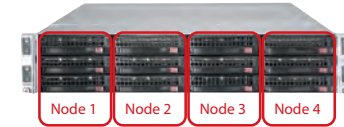


(Rear View)

TwinPro2™



SYS-2028TP-H Series
4 DP Nodes in 2U, 24x 2.5" SAS/SATA drives



SYS-6028TP-H Series
4 DP Nodes in 2U, 12x 3.5" SAS/SATA3 drives

Chassis	MB	X10DRT-PS**	X10DRT-P** X10DRT-PT** X10DRT-PIBQ** X10DRT-PIBF**	X10DRT-H** X10DRT-HIBQ** X10DRT-HIBF**	X10DRT-L X10DRT-LIBQ X10DRT-LIBF
1U					● SC809BTQ-1K28B ● SC809BTQ-1K03B ● SC808BT-1K28B ● SC808BT-1K03B 1U Heatsink: SNK-P0047PS (Front) 1U Heatsink SNK-P0047PW (Rear).
2U TwinPro™ TwinPro2™		● SC217HQ+-R2K04B2** ● SC827HQ+-R2K04B2** 2U Heatsink: SNK-P0048PS	● SC217HQ+-R2K02B** ● SC217HQ+-R1K28B** ● SC827HQ+-R2K02B** 1U Heatsink: SNK-P0047PSM (Front) 1U Heatsink: SNK-P0057PS (Rear)	● SC217HQ-R1K68B** ● SC217HQ-R1620B** ● SC827HQ-R1K68B** ● SC827HQ-R1620B** 1U Heatsink: SNK-P0047PS (Front) 1U Heatsink SNK-P0047PW (Rear).	
4U/ Tower			● SC217HD+-R1K28B** ● SC827HD+-R1K28B** ● SC827HD+-R1K68B** 2U Heatsink: SNK-P0048PS	● SC827HD-R1K28B** 2U Heatsink: SNK-P0048PS (Front) 2U Heatsink: SNK-P0048PW (Rear)	

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 family.

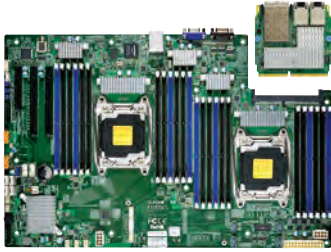
● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

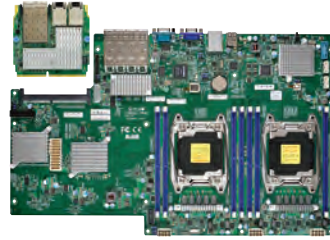
† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

** For integration into SuperServer® systems only, not available for sale as subsystems.

24 DIMMs
SIOM LAN Support
SAS3 AOM Support



SIOM LAN Support
Quad 10G SFP+
Dual Broadcom® 3008 Controller



SIOM LAN Support
24 DIMMs



MODEL	X10DSC+**	X10DSC-TP4S**	X10DRT-B+
Processor†	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
Form Factor	Proprietary 17.0" x 10.4"	Proprietary	Proprietary
Memory Capacity & Slots*	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots
Expansion Slots	1 PCI-E 3.0 x8 2 PCI-E 3.0 x16	N/A	Left Riser: 1 PCI-E 3.0 x16, Right Riser: 1 PCI-E 3.0 x16, Proprietary: 1 PCI-E 3.0 x24 (for Supermicro storage add-on card), SIOM: 1 PCI-E 3.0 x16 SIOM LAN Networking Slot, M.2: 1 PCI-E 3.0 x8 (for M.2 add-on card)
Onboard RAID Controller	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10 BBU option support, JBOD support (IT Mode); 4 U.2 (NVMe) PCI-E 3.0 x4 ports	Dual Broadcom® 3008 SW controller for SAS3 (12Gb/s) ports; RAID 0,1,10, JBOD support (IT Mode); Intel® C612 controller for 4 SATA3 (6Gb/s) ports	Intel® C612 controller for 6 SATA3 (6Gb/s) ports; RAID 0,1,5,10
Onboard LAN	Flexible LAN options via Supermicro I/O Module (SIOM) LAN cards	Quad LAN with Intel® XL710 10G SFP+ & SIOM	
Onboard VGA	AST2400 VGA	AST2400 VGA	AST2400 VGA
USB Ports	3 USB 3.0 ports (2 rear + 1 Type A)	4 USB 2.0 ports (2 rear + 2 via headers) 2 USB 3.0 ports (2 rear)	2 USB 3.0 ports (2 rear)
Other Onboard I/O Devices	2 SuperDOM ports TPM module header 1 COM port (1 header)	2 SuperDOM ports TPM 1.2 Header 1 COM Ports (1 rear)	TPM 1.2 Header
Manageability	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SSM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, 3.3V standby, 4 -fan status, chassis intrusion header, monitors CPU voltages, supports system management utility, system level control	+1.8V, +12V, +3.3V, +5V, 5 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control	+1.8V, +12V, +3.3V, +5V, 3.3V standby, 4 -fan status, monitors CPU voltages, supports system management utility, system level control
Thermal Control	4 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control	5 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control	2x 4-pin fan headers (up to 2 fans), Pulse Width Modulated (PWM) fan connectors, Status monitoring for speed control, Thermal control tachometer fan connectors
Other Features	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Intel® Smart Response Technology, Node Manager Support, SDDC, System level control, UID, WOL	Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, System level control, UID	UID, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

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OPTIMIZED CHASSIS AND ACCESSORIES

S5G-2028R-NR48N

All Flash Solutions, 2U 48x 2.5" hot-swap NVMe bays

- Dual socket R3 (LGA 2011) supports Intel® Xeon® Processor E5-2600 v4/v3 family; QPI up to 9.6GT/s
- Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots
- 2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8
- SIOM for flexible networking options
- 48x 2.5" Hot-swap NVMe bays; 2x 2.5" rear Hot-swap drive bays
- 1600W redundant Titanium Level (96%) power supplies



S5G-6048R-E1CR60N/L (Shown)

SC946SE2C/1C-R1K66JB0D

4U 60x 3.5" Hot-swap SAS3/SATA3 drive bays

- Intel® Xeon® Processor E5-2600 v4/v3 family; QPI up to 9.6GT/s; Dual socket R3 (LGA 2011) supports
- Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots
- 2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8
- SIOM for flexible networking options
- 60x 3.5" Hot-swap SAS3/SATA3 drive bays; 2x 2.5" rear Hot-swap SATA3 drive bays; optional 6x NVMe bays
- Broadcom® 3108 SAS3 HW RAID controller
- 2000W Redundant Titanium Level (96%) power supplies
- Front 3.5" LCD display



Chassis	MB	X10DSC+**	X10DSC-TP4S**	X10DRT-B+
2U		● SC226SE1C8-R1K62** ● SC226SN-R1K62** ● SC826SE1C4-R1K62** 1U Heatsink: SNK-P0047PS		● SC217BHQ-R2K22B** ● SC217BHD-R2K22B**
4U		● SC946LE1C-R1K66** ● SC946SE1C-R2K05** 2U Heatsink: SNK-P0048PS	● SC946E1C-R3KB** 2U Heatsink: SNK-P0058PSC	

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 family.

● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

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Rear I/O FatTwin
Dual 10 GbE, NVMe



Front I/O FatTwin GPU
Dual 10GBase-T
Broadcom® 3008 Controller



Front I/O FatTwin
Broadcom® 3108 SAS3 Controller
Power Optimized



MODEL	X10DRFR(-N)** X10DRFR(-NT)**	X10DRFF-i(T)G** X10DRFF-C(T)G**	X10DRFF** X10DRFF-C**
Processor†	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
Form Factor	Proprietary FatTwin 6.8" x 19.463"	Proprietary 8.54" x 18.72"	Proprietary 8.54" x 18.72"
Memory Capacity & Slots*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 1 PCI-E 3.0 x8 connector for Supermicro add-on cards 1 PCI-E 3.0 x8 (Micro Low Profile)	1 PCI-E 3.0 x32 Right Riser Slot 1 PCI-E 3.0 x16 2 PCI-E 3.0 x8 1 PCI-E 2.0 x4 (in x8)	2 PCI-E 3.0 x16 (Low Profile)
Onboard RAID Controller	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10; JBOD support (IT Mode); -C(T)G:Broadcom® 3008 SW controller for 8 SAS3 (12Gb/s) ports	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10; -C: Broadcom® 3008 SW controller for 8 (12Gb/s) ports; RAID 0,1,10, JBOD support (IT Mode)
Onboard LAN	Dual LAN with Intel® i350 Gigabit Ethernet Controllers -NT: Dual LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with Intel® i350 Gigabit Ethernet Controllers -iTG/CTG: Dual LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with Intel® Ethernet Controller i210
Onboard VGA	AST2400 VGA	AST2400 VGA	AST2400 VGA
USB Ports	3 USB 3.0 ports (2 rear + 1 Type A)	2 USB 3.0 ports (2 rear)	3 USB 3.0 ports (2 rear + 1 Type A)
Other Onboard I/O Devices	2 SuperDOM ports TPM module header 1 COM port (1 header) 2 Ports NVMe	TPM module header	2 SuperDOM ports TPM module header 1 COM port (1 header)
Manageability	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SSM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V Standby, 3.3v standby, Monitors CPU voltages, Supports system management utility	+1.8V, +12V, +3.3V, +5V, +5V standby, 1.2V (VDIMM), 3.3V standby, 8 -fan status, Chassis intrusion header, VBAT	+12V, +3.3V, +5V, +5V Standby, 3.3v standby, Monitors CPU voltages, Supports system management utility
Thermal Control	Overheat LED indication, PWM fan speed control, System level control	8 4-pin, Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors	2 4-pin, Overheat LED indication, PWM fan speed control, System level control
Other Features	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL, UID	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, System level control, UID WOL, UID	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

** For integration into SuperServer® systems only, not available for sale as subsystems.

OPTIMIZED CHASSIS AND ACCESSORIES



SYS-F628G3-F+ Series (shown)
SYS-F628G2-F+ Series
*4 DP Nodes,
 3 GPU/Coprocessor per Node,
 Front I/O, 16 DIMMs*

SYS-F628R2-F+ Series (shown)
SYS-F628R3-F+ Series
*4 DP Nodes,
 Front I/O, 16 DIMMs*

SYS-F618R3-F+ Series
SYS-F618R2-F+ Series
*8 DP Nodes,
 Highest Density & Efficiency,
 Front I/O, 16 DIMMs*

SYS-F618H6-F+ Series
*Hadoop
 4-Node Front I/O, 16 DIMMs
 12x 3.5" HDDs per Node*



SYS-F618R2-F Series
*8-Node, Front I/O, 8 DIMMs
 Highest Density & Efficiency*

SYS-F628R3-F Series (shown)
SYS-F628R2-F Series
4-Node, Front I/O, 8 DIMMs

SYS-F618R2-R+ Series
*8-Node, Rear I/O, 16 DIMMs
 Highest Density
 4x SAS/SATA3 + 2 NVMe drives per
 node*

SYS-F628R3-R+ Series
*4-Node, Rear I/O, 16 DIMMs
 6x SAS/SATA3 + 2 NVMe drives per
 node*

Chassis	MB X10DRFR(-N)** X10DRFR(-NT)**	X10DRFF-i(T)G** X10DRFF-C(T)G**	X10DRFF** X10DRFF-C**
4U FatTwin™	● SCF418BC-R1K62BP** 1U Heatsink: SNK-P0047PSM (Front) 1U Heatsink: SNK-P0057P (Rear) ● SCF424AS-R1K28BP** 2U Heatsink: SNK-P0048PS (Front) 2U Heatsink: SNK-P0048P (Rear)	● SCF418iL-R1K62BP** 1U Heatsink: SNK-P0047P (Front) 1U Heatsink: SNK-P0057P (Rear) ● SCF424AF-R1K28B** ● SCF424BD-R1K28B** 2U Heatsink: SNK-P0048P	● SCF418iL-R1K62BP** 1U Heatsink: SNK-P0047P (Front) 1U Heatsink: SNK-P0057P (Rear) ● SCF424AF-R1K28B** ● SCF424BD-R1K28B** 2U Heatsink: SNK-P0048P

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 family.

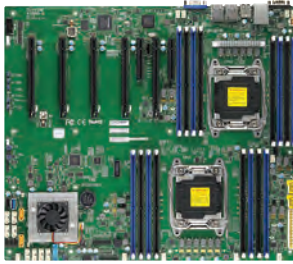
● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

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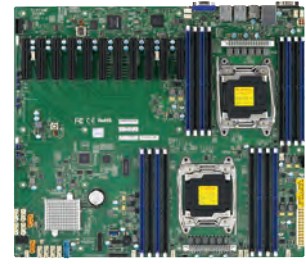
Workstation
16 DIMMs, 4 GPUs
Thunderbolt™ AOC,
4-way Geforce SLI Support



Up to 6 GPUs/Coprocessors in 2U
16 DIMMs, 10 GbE



16 DIMMs
11 PCI-E Slots



MODEL	X10DRG-Q	X10DRG-H** X10DRG-HT**	X10DRX
Processor†	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 160W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
Form Factor	15.2" x 13.2"	Proprietary 9.2" x 19.8"	Proprietary 15.2" x 13.2"
Memory Capacity & Slots*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	4 PCI-E 3.0 x16 1 PCI-E 3.0 x8 (in x16 slot) 1 PCI-E 3.0 x8 1 PCI-E 2.0 x4 (in x8 slot)	4 PCI-E 3.0 x16 1 PCI-E 3.0 x8 (in x16 slot)	10 PCI-E 3.0 x8 1 PCI-E 2.0 x4 (in x8 slot)
Onboard RAID Controller	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with Intel® i350 Gigabit Ethernet Controllers	-H: Dual LAN with Intel® Ethernet Controller i350 -HT: Dual LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with Intel® i350 Gigabit Ethernet Controller
Onboard VGA	AST2400 VGA	AST2400 VGA	AST2400 VGA
USB Ports	5 USB 3.0 ports (2 rear + 2 via headers + 1 Type A) 4 USB 2.0 ports (2 rear + 2 via headers)	4 USB 3.0 ports (2 rear + 2 via headers) 2 USB 2.0 ports (2 via headers)	5 USB 3.0 ports (2 rear + 2 via headers + 1 Type A) 4 USB 2.0 ports (2 rear + 2 via headers)
Other Onboard I/O Devices	2 SuperDOM ports 7.1 HD Audio Header TPM onboard header 2 COM Ports (1 rear, 1 header) Thunderbolt™ AOC header Supports 4-way Geforce SLI	2 SuperDOM ports TPM Module header 1 COM port (1 header)	2 SuperDOM ports TPM module header 2 COM Ports (1 rear, 1 header)
Manageability	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V Standby, 3.3v standby, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V standby, Monitors CPU voltages, Supports system management utility
Thermal Control	10 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control	12 4-pin, Overheat LED indication, PWM fan speed control, System level control	11 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control
Other Features	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

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OPTIMIZED CHASSIS AND ACCESSORIES

SC835XTQ-R982B

3U Chassis with 11 PCI Slots

- Supports up to 11x PCI-E 3.0 expansion slots
- 980W Redundant **Platinum Level** w/ PMBus
- Supports up to 8 hot-swap SAS/SATA drives
- 100% cooling redundancy, 5 hot-plug redundant cooling fans, and adjustable air shroud supports



SC213XAC-R1K05LP

2U Chassis solution

- Direct-attached SAS3 backplane supporting 16x SAS3/SATA 2.5" Hot-swap HDDs
- Redundant 1000W Titanium Level (96%) power supplies
- 4x 80mm Hot-swap 7k RPM PWM fans with enhanced cooling design
- 1x Slim DVD-ROM Drive; 2x USB + 1x COM port (optional)
- 11 Slots Low-profile PCI expansion

Chassis \ MB	X10DRG-Q	X10DRG-H** X10DRG-HT**	X10DRX
1U		● SC118GH-R1K66B** 1U Heatsink: SNK-P0047PSC (Front) 1U Heatsink: SNK-P0047PS (Rear)	
2U		● SC218GH-R2K03B** 1U Heatsink: SNK-P0047PS (Front) 2U Heatsink: SNK-P0048PS (Rear)	● SC213XAC-R1K05 2U Heatsink: SNK-P0048PS
3U/ Mid-Tower			● SC835XTQ-R982B 2U Heatsink: SNK-P0048PS
4U/ Tower	● SC747TQ-R1620B ● SC747BTQ-R1K62B 4U Heatsink: SNK-P0050AP4		● SC842XTQ-R606B 2U Heatsink: SNK-P0048AP4 ● SC846XA-R1K23B ● SC846XE1C-R1K23B ● SC846XE2C-R1K23B 2U Heatsink: SNK-P0048PS

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 family.

● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

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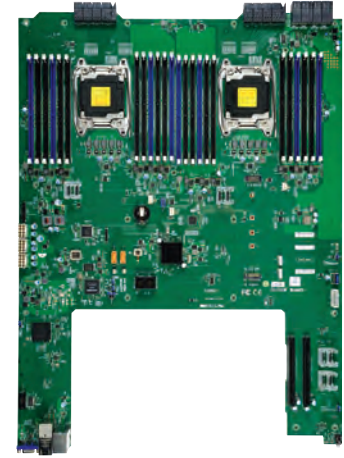
Up to 4 GPUs/Coprocessors in 1U
(maximum support in a 1U server)



GPU Serverboard



GPU Serverboard



MODEL	X10DGQ**	X10DRG-OT+-CPU** X10DRG-O+-CPU**	X10DGO** X10DGO-T**
Processor†	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® processor E5-2600 v3, Intel® Xeon® processor E5-2600 v4 Dual Socket LGA-2011-3 (Socket R3) supported, CPU TDP supports Up to 160W TDP, 1 QPI up to 9.6 GT/s	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; Dual Socket R3 (LGA 2011) supported; QPI up to 9.6GT/s; CPU TDP support Up to 160W
Chipset	Intel® C612 Chipset	Intel® C612	Intel® C612 Chipset
Form Factor	Proprietary 13.2" x 14.75"	Proprietary 17.0" x 19.5" (43.18cm x 49.53cm)	Proprietary 17" x 22.76"
Memory Capacity & Slots*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	768GB Registered ECC RDIMM, DDR4-2400MHz 3TB 3DS ECC LRDIMM, DDR4-2400MHz, in 24 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots
Expansion Slots	4 PCI-E 3.0 x16 2 PCI-E 3.0 x8	8 PCI-E 3.0 x16, 2 PCI-E 3.0 x8 (in x16 slot) 1 PCI-E 2.0 x4 (in x16 slot) (Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram for details.)	4 PCI-E 3.0 x16 to mid-plane, 2 PCI-E 3.0 x8
Onboard RAID Controller	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10		Intel® C612 controller for 8 SATA3 ports to the mid-plane + 2 SATADOM ports for 10 total; RAID 0, 1, 5, 10
Onboard LAN	Networking options provided via I/O Riser	-OT+-CPU: Dual LAN with 10GBase-T with Intel® X540 10GbE Controller Single LAN with Supports 10Base-T, 100BASE-TX, and 1000BASE-T, RJ45 output Single LAN with Realtek RTL8211E PHY (dedicated IPMI) -O+-CPU: Dual LAN with Intel® i350 Gigabit Ethernet Controller Option for 10GBase-T support with X540 Ethernet controller (T SKU) Single LAN with Supports 10Base-T, 100BASE-TX, and 1000BASE-T, RJ45 output Single LAN with Realtek RTL8211E PHY (dedicated IPMI)	X10DGO: Dual LAN with Intel® Ethernet Controller I350-AM2 X10DGO-T: Dual LAN with Intel® X540 10GBase-T Ethernet Controller
Onboard VGA	AST2400 VGA	ASPEED AST2400 BMC	AST2400 VGA
USB Ports	2 USB 3.0 ports (2 rear) 2 USB 2.0 ports (2 via headers) The USB 3.0 ports are found on the IO riser	4 USB 2.0 ports (4 via headers) 5 USB 3.2 Gen1 ports (4 rear + 1 Type A)	3 USB 3.0 ports (2 rear + 1 Type A)
Other Onboard I/O Devices	2 SuperDOM ports TPM Module header 1 COM port (1 header)	2 ports SuperDOM TPM 1.2 Header	2 SATA DOM power connector TPM Module header 1 COM port header
Manageability	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog	IPMI2.0, SPM, SUM, SuperDoctor® 5	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +3.3V standby, Monitors CPU voltages, Supports system management utility	+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 5 Phase-switching voltage regulator, Memory Voltages, Monitors for CPU Cores, Supports system management utility, VBAT	+3.3V, +5V, +12V standby, +5V standby, +3V standby, 1.2V (VDIMM), 10 -fan status, Monitors CPU voltages, Supports system management utility, System temperature, VBAT
Thermal Control	11 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, Thermal control tachometer fan connectors		2 4-pin Fan connectors, Overheat LED indication, PWM fan speed control
Other Features	ACPI power management, CPU thermal trip support for Processor protection, UID	N/A	N/A
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

** For integration into SuperServer® systems only, not available for sale as subsystems.

OPTIMIZED CHASSIS AND ACCESSORIES

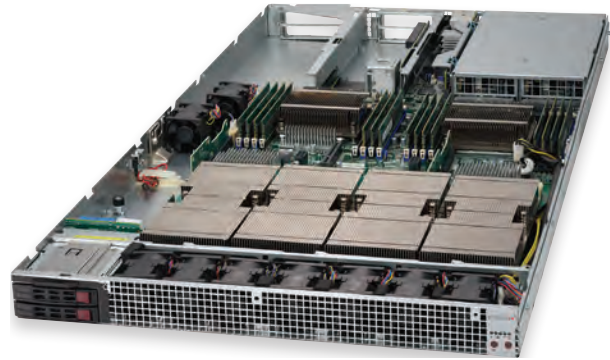
SC118GQP-R2K05**

SYS-1028GQ-TXR

(For Complete System Only)

4 Pascal GPU SXM in 1U

- Up to 4 Tesla P100 SXM2
 - Up to 80 GB/s GPU-to-GPU NVLINK
 - Supports GPUDirect RDMA
- 3 PCI-E 3.0 x16 slots, 1 PCI-E 3.0 x8 Low-profile slot
- Intel® i350 Dual port GbE LAN
- 2x 2.5" Hot-swap drive bays, 2x 2.5" internal drive bays
- 7x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control
- 2000W redundant power supplies **Titanium Level** (96%)



SCR422BG-2**

SYS-4028GR-TXR

(For Complete System Only)

8 Pascal GPU Cards in 4U

- - Up to 8 Tesla P100 SXM2
 - Up to 80 GB/s GPU-to-GPU NVLINK
 - Supports GPUDirect RDMA
- 4 PCI-E 3.0 x16 (low-profile) slots, 2 PCI-E 3.0 x8 slots
- Dual 1GbE LAN with Intel® i350
- 16 Hot-swap 2.5" SATA/SAS drives; supports 8 **NVMe** drives
- 8x 92mm cooling fans
- 2200W redundant (2+2) **Titanium Level** (96%+) power supplies



Chassis \ MB	X10DGQ**	X10DRG-OT+-CPU** X10DRG-O+-CPU**	X10DGO** X10DGO-T**
1U	● SC118GQE-R2K03** ● SC118GQP-R2K05** 1U Heatsink: SNK-P0057P		
2U			
3U/ Mid-Tower			
4U/ Tower			● SCR422BG-2** 2U Heatsink: SNK-P0048AP4

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 family.

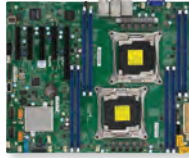
● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

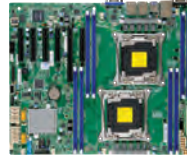
† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

** For integration into SuperServer® systems only, not available for sale as subsystems.

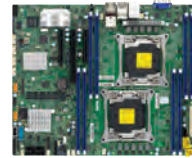
12" x 10"
Quad 1GbE LAN



12" x 10"
Cost-Effective



12" x 10"
Cost-Effective
Broadcom® 3108 SAS3 HW RAID
Dual 10GbE, Dual 1GbE



MODEL	X10DRL-LN4	X10DRL-i	X10DRL-C X10DRL-CT X10DRL-iT
Processor†	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
Form Factor	ATX 12" x 10"	ATX 12" x 10"	ATX 12" x 10"
Memory Capacity & Slots*	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	2 PCI-E 3.0 x8 1 PCI-E 3.0 x16 1 PCI-E 3.0 x4 (in x8 slot) 1 PCI-E 2.0 x4 (in x8 slot)	3 PCI-E 3.0 x8 1 PCI-E 3.0 x16 1 PCI-E 3.0 x4 (in x8 slot) 1 PCI-E 2.0 x4 (in x8 slot)	2 PCI-E 3.0 x8 1 PCI-E 3.0 x16
Onboard RAID Controller	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10	Intel® C612 controller for 6 SATA3 (6Gb/s) ports; RAID 0,1,5,10; -C/-CT: Broadcom® 3108 SAS3 (12Gb/s) controller; 2GB cache with SuperCap backup option; HW RAID 0, 1, 5, 6, 10, 50, 60
Onboard LAN	Quad LAN with Intel® i350 Gigabit Ethernet Controller	Dual LAN with Intel® i210 Gigabit Ethernet Controller	Dual LAN with Intel® i210 Gigabit Ethernet Controller -CT/-iT: Dual LAN with Intel® X540 10GBase-T Ethernet Controller
Onboard VGA	AST2400 VGA	AST2400 VGA	AST2400 VGA
USB Ports	2 USB 3.0 ports (2 via headers) 5 USB 2.0 ports (2 rear + 2 via headers + 1 Type A)	4 USB 3.0 ports (2 rear + 2 via headers) 5 USB 2.0 ports (2 rear + 2 via headers + 1 Type A)	4 USB 3.0 ports (2 rear + 2 via headers) 3 USB 2.0 ports (2 via headers + 1 Type A)
Other Onboard I/O Devices	2 SuperDOM ports 2 SATA DOM power connectors TPM Module header 1 COM ports (1 header)	2 SuperDOM ports 1 SATA DOM power connector TPM Module header 2 COM ports (1 rear, 1 header)	2 SuperDOM ports 1 SATA DOM power connector TPM onboard header 1 COM port (1 header) SuperCAP connector (-C SKU only)
Manageability	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SSM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, 3.3V standby, 8 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V Standby, 3.3v standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V standby, 8 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility
Thermal Control	8 4-pin, Overheat LED indication, PWM fan speed control	8 4-pin, Overheat LED indication, PWM fan speed control, System level control	8 4-pin, Overheat LED indication, PWM fan speed control
Other Features	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, UID, WOL	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL, UID	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL, UID
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

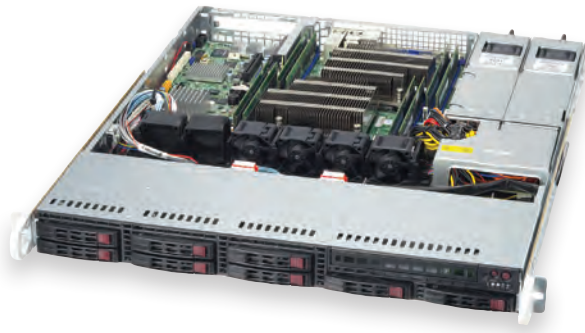
** For integration into SuperServer® systems only, not available for sale as subsystems.

OPTIMIZED CHASSIS AND ACCESSORIES

SC113MFAC2-R606CB

1U 19.98" Depth Chassis

- SAS3 12Gb/s Technology
- Hybrid backplane design for best supportability. Supports up to 8 port SAS3 12Gb/s or 6 port SAS3 12Gb/s and 2 port NVMe (determined by system and cable configuration)
- 8 hot-swap 2.5" drives bays
- Motherboard size support up to ATX 12"x10" MB
- 600W Redundant Platinum Level power supplies; or 340W single
- Optimize cooling with 4 40x28mm (22.5K RPM) PWM fans (optional upgrade up to 6 PWM fans)



SC823TQ-653LPB

Cost-effective high reliability chassis

- 650W Gold Level high-efficiency power supply
- 6x 3.5" Hot-swap SAS/SATA drive bays
- 1x 5.25" peripheral drive bay
- 1x slim DVD-ROM drive (optional)
- 4x 80mm 6300 RPM Fans
- 7x low-profile, full-length I/O expansion slots
- Power Switch & 6 LED Indicators



Chassis \ MB	X10DRL-LN4	X10DRL-i	X10DRL-C X10DRL-CT X10DRL-iT
1U		● SC813MFTQ-441CB ● SC813MFTQ-R400CB ● SC813MFTQ-R606CB ● SC514-R400C ● SC514-505 1U Heatsink: SNK-P0047PD	● SC813MFTQ-441CB ● SC813MFTQ-R400CB ● SC813MFTQ-R606CB ● SC113MFAC2-605CB ● SC113MFAC2-R606CB ● SC514-R400C ● SC514-441 ● SC514-505 ● SC813MFTQ-505CB 1U Heatsink: SNK-P0047PD
2U	● SC823TQ-653LPB ● SC825TQ-R740LPB ● SC825TQ-563LPB ● SC213LT-600LPB 2U Heatsink: SNK-P0048AP4	● SC823TQ-653LPB ● SC825TQ-R740LPB ● SC825TQ-563LPB ● SC826TQ-R500LPB ● SC213LT-600LPB 2U Heatsink: SNK-P0048AP4	● SC823TQ-653LPB ● SC825TQ-R740LPB ● SC825TQ-563LPB ● SC826TQ-R500LPB ● SC213LT-600LPB ● SC213AC-R920LPB 2U Heatsink: SNK-P0048AP4
3U/ Mid-Tower	● SC833T-653B ● SC732i-500B 2U Heatsink: SNK-P0048AP4	● SC833T-653B ● SC732i-500B ● SC732D4F-903B 2U Heatsink: SNK-P0048AP4	● SC833T-653B ● SC732i-500B ● SC836BE1C-R1K03B ● SC732D4F-903B 2U Heatsink: SNK-P0048AP4
4U/ Tower	● SC842TQ-865B ● SC842TQC-668B 2U Heatsink: SNK-P0048AP4	● SC842TQ-865B ● SC842TQC-668B 2U Heatsink: SNK-P0048AP4	● SC842TQ-865B ● SC842TQC-668B 2U Heatsink: SNK-P0048AP4

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 family.

● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

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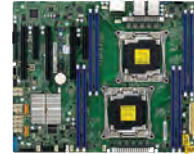

Workstation
 12" x 13", 7.1 HD Audio
 Thunderbolt™ AOC Support
 Performance Optimized



Hyper-Speed Technology
Workstation, 7.1 HD Audio
 Thunderbolt™ AOC Support
 Performance Optimized
 GeForce SLI




 12" x 10"
Workstation, 2 GPUs
 Thunderbolt™ AOC support



MODEL	X10DAi X10DAC	X10DAX	X10DAL-i
Processor†	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 160W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 160W	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 160W
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
Form Factor	E. ATX 12" x 13"	E. ATX 12" x 13"	ATX 12" x 10"
Memory Capacity & Slots*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	3 PCI-E 3.0 x16 2 PCI-E 3.0 x8 1 PCI-E 2.0 x4 (in x8 slot)	3 PCI-E 3.0 x16 2 PCI-E 3.0 x8 1 PCI-E 2.0 x4 (in x8 slot)	2 PCI-E 3.0 x16 1 PCI-E 3.0 x8 (in x16 slot) 1 PCI-E 3.0 x4 (in x8 slot) 1 PCI-E 2.0 x4 (in x8 slot)
Onboard RAID Controller	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10; Broadcom® 3008 SW controller for 8 SAS3 (12Gb/s) ports; RAID 0,1,10 (X10DAC only)	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with Intel® i210 Gigabit Ethernet Controller	Dual LAN with Intel® i210 Gigabit Ethernet Controller	Dual LAN with Intel® i210 Gigabit Ethernet Controller
Onboard VGA	N/A	N/A	N/A
USB Ports	6 USB 3.0 ports (4 rear + 2 via headers) 5 USB 2.0 ports (2 rear + 2 via headers + 1 Type A)	6 USB 3.0 ports (4 rear + 2 via headers) 5 USB 2.0 ports (2 rear + 2 via headers + 1 Type A)	6 USB 3.0 ports (4 rear + 2 via headers) 3 USB 2.0 ports (+ 2 via headers + 1 Type A)
Other Onboard I/O Devices	2 SuperDOM ports 7.1 HD Audio TPM module header Thunderbolt™ AOC Header	2 SuperDOM ports 7.1 HD Audio TPM module header Thunderbolt™ AOC Header	2 SuperDOM ports 7.1 HD Audio TPM module header 1 COM Ports (1 header) Thunderbolt™ AOC Header
Manageability	NMI SuperDoctor® 5 Watchdog SSM	NMI SuperDoctor® 5 Watchdog SSM	SuperDoctor® 5 Watchdog SSM
PC Health Monitoring	+12V, +3.3V, +5V, +5V Standby, 3.3v standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V Standby, 3.3v standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+12V, +3.3V, +5V, +5V standby, 3.3V standby, 7-fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility
Thermal Control	8 4-pin, Overheat LED indication, PWM fan speed control, System level control	8 4-pin, Overheat LED indication, PWM fan speed control, System level control	7 4-pin, Overheat LED indication, PWM fan speed control
Other Features	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, SDDC, WOL	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Hyper-Speed Technology hardware acceleration, SDDC, WOL, GeForce SLI	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, SDDC, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

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OPTIMIZED CHASSIS AND ACCESSORIES

SC747BTQ-R1K62B

4U/Tower Chassis with 11x PCI-E Expansion Slots

- Up to 11 PCI-E FH/FL Expansion Slots, supports 4x double-width Passive GPUs
- Redundant (1+1) 1620W **Platinum Level** high-efficiency power supplies w/ PMBus
- 4 sets of 6-pin + 8-pin power connector for high-end graphic cards
- 8x 3.5" hot-swap SAS / SATA HDD drive bays, 1x fixed 3.5" device bay, 3x 5.25" device bays



SC835BTQ-R1K28B

3U Chassis with BBP* Support

- Redundant 1280W **Platinum Level** Digital w/ PMBus 1.2, BBP* support
- Supports up to 8 SAS2/SATA3 with SES2
- Supports up to 7 rear expansion slots
- 100% cooling redundancy, 5 hot-plug redundant cooling fans, and adjustable air shroud supports



Chassis \ MB	X10DAi X10DAC	X10DAX	X10DAL-i
1U			
2U	● SC825TQ-R740LPB ● SC826BA-R920LPB ● SC213AC-R740LPB ● SC216BA-R920LPB ● SC216BE1C-R920LPB ● SC216BE2C-R920LPB 2U Heatsink: SNK-P0048P	● SC825TQ-R740LPB ● SC826BA-R920LPB ● SC213BA-R920LPB 2U Heatsink: SNK-P0048P	● SC825TQ-600LPB ● SC213LT-600LPB 2U Heatsink: SNK-P0048AP4
3U/ Mid-Tower	● SC835TQ-R920B ● SC836BA-R920B ● SC835BTQ-R1K28B ● SC836BE1C-R1K03B 2U Heatsink: SNK-P0048P ● SC732i-865B ● SC732D4F-903B 4U Heatsink: SNK-P0050AP4	● SC835TQ-R920B ● SC836BA-R920B ● SC835BTQ-R1K28B ● SC836BE1C-R1K03B 2U Heatsink: SNK-P0048P ● SC732i-865B ● SC732D4F-903B 4U Heatsink: SNK-P0050AP4	● SC732D4-500B ● SC733TQ-665B 2U Heatsink: SNK-P0048AP4
4U/ Tower	● SC743TQ-1200B ● SC745BTQ-R1K28B-SQ ● SC745TQ-R920B ● SC747TG-R1400B-SQ ● SC846BA-R920B ● SC747BTQ-R1K62B ● SC846BE1C-R1K28B 4U Heatsink: SNK-P0050AP4 ● SC847BE1C-R1K28LPB ● SC847BE2C-R1K28LPB 2U Heatsink: SNK-P0048P	● SC743TQ-1200B ● SC745BTQ-R1K28B-SQ ● SC745TQ-R920B ● SC747TG-R1400B-SQ ● SC846BA-R920B ● SC747BTQ-R1K62B 4U Heatsink: SNK-P0050AP4	● SC743TQ-865B-SQ ● SC743TQ-665B 2U Heatsink: SNK-P0048AP4

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 family.

● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

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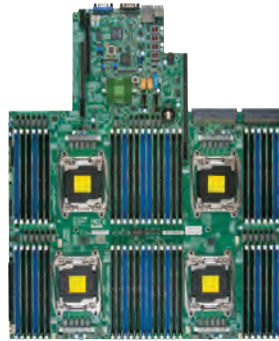
Entry Level
4-way E7, 32 DIMM
Broadcom® 3008 SAS3 SW RAID, ual
10GBase-T



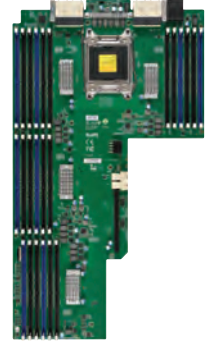
Top of the Line
4-way E7, 96 DIMM



High performance
E5, 48 DIMM



Premium Performance
8-way E7,
192 cores, 192 DIMMs



MODEL	X10QBL(-CT)	X10QBi (Baseboard**)	X10QRH+**	X100Bi-CPU**
Processor†	Quad Intel® Xeon® Processor E7-8800 v4/v3; Quad Intel® Xeon® Processor E7-4800 v4/v3 product families; Socket R1 (LGA 2011) supported; QPI up to 9.6GT/s; CPU TDP support up to 165W	Quad Intel® Xeon® Processor E7-8800 v4/v3; Quad Intel® Xeon® Processor E7-4800 v4/v3 product families; Socket R1 (LGA 2011) supported; QPI up to 9.6GT/s; CPU TDP support up to 165W	Quad Intel® Xeon® Processor E5-4600 v4/v3 product families; Socket R3 (LGA 2011) supported; QPI up to 9.6GT/s; CPU TDP support up to 135W	Octal Intel® Xeon® Processor E7-8800 v4/v3; Octal Intel® Xeon® Processor E7-4800 product families; Socket R1 (LGA 2011) supported; QPI up to 9.6GT/s; CPU TDP support up to 165W
Chipset	Intel® C602J Chipset	Intel® C602J Chipset	Intel® C612 Chipset	Intel® C602J Chipset
Form Factor	Proprietary 16.79" x 16.4"	Proprietary 17" x 19"	Proprietary 16.8" x 20"	Proprietary 20.17" x 11.07"
Memory Capacity & Slots*	Up to 2TB ECC DDR3 LRDIMM, speed up to 1600MHz; 32 DIMM slots	Up to 6TB Registered ECC RDIMM with Memory Module support	Up to 3TB Register ECC DDR4 LRDIMM, speed up to 2133MHz; 48 DIMM slots	Up to 3TB of DDR4-1866Mhz with 3DS LRDIMM, up to 1.5 TB of DDR4 with LRDIMM/RDIMM in 24 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 2 PCI-E 3.0 x8	4x PCI-E 3.0 x16 (slot 2,4,9,11) 7x PCI-E 3.0 x8 (slot 1,3,5,6,7,8,10)	1 PCI-E 3.0 (x32) for left hand side riser card support (rear left) 1 PCI-E 3.0 (x40) for right hand side riser card support (rear right) NVMe/Internal card support	1 PCI-E 3.0 x16 for Supermicro storage AOC 1 PCI-E 3.0 x8 for SSD (NVMe) 1 PCI-E 3.0 x8 to backplane for storage module
Onboard RAID Controller	Intel® C602J controller for 2 SATA3 (6Gb/s) ports; 4 SATA2 (3 Gb/s) with RAID 0,1,5,10; Broadcom® 3008 SW controller for 8 SAS3 (12Gb/s) ports; RAID 0,1,10 (-CT only)	Intel® C602J controller for 2 SATA3 (6Gb/s) ports; 4 SATA2 (3 Gb/s) with RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6Gb/s) ports; RAID 0,1,5,10	
Onboard LAN	Dual LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with Intel® X540 10GBase-T Ethernet Controller (on add-on module)	On add-on module	Onboard AOM-X100Bi-PCH module
Onboard VGA	Aspeed AST2400 BMC	Aspeed AST2400 BMC	Aspeed AST2400 BMC	Aspeed AST2400 BMC
USB Ports	6 USB 2.0 ports (2 rear + 3 via headers + 1 Type A)	8 USB 2.0 ports (4 rear + 3 via headers + 1 Type A)	3 USB 3.0 ports (1 rear + 1 via header + 1 Type A) 2 USB 2.0 ports (2 via headers)	2 USB 2.0 in KVM port(in the front)
Other Onboard I/O Devices	TPM 1.2 Onboard & Header 2 COM Ports (1 rear, 1 header)	2 fast UART 16550 serial; 2 COM Ports (1 rear, 1 header) TPM 1.2 onboard	TPM 1.2 Onboard & Header; 1 COM Ports (1 rear)	2 fast UART 16550 serial; 2 COM Ports (1 rear, 1 header) TPM 1.2 onboard
Manageability	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, NMI, SPM, SUM, SSM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility
Thermal Control	8 4-pin	10 4-pin, Overheat LED indication, PWM fan speed control	10 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control	10 4-pin, Overheat LED indication, PWM fan speed control
Other Features	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL	ACPI power management, CPU thermal trip support for Processor protection	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Node Manager Support, SDDC, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

** For integration into SuperServer® systems only, not available for sale as subsystems.

OPTIMIZED CHASSIS AND ACCESSORIES

SC818A-1K43LPB

- 1400W **Platinum Level** Digital high-efficiency power supply
- 3x 3.5" hot-swap SAS/SATA drive bays
- 1x slim DVD-ROM drive (optional)
- 7x 4cm heavy duty counter-rotating fans with air shroud
- 1x low profile I/O expansion slot
- Power Switch, Reset Switch and 5 LED Indicators



SC848E16-R1K62B

SC418E16-R1K62B2

- 1620W x2 (or 3) **Platinum Level** power supplies
- 8x full-height, full-length expansion slots
- 4x 9cm + 3x 8cm heavy duty fans w/ optimal fan speed control
- SC848E16: 24x 3.5" hot-swap SAS2/SATA3 HDD bays
- SC418E16: 48x 2.5" hot-swap SAS2/SATA3 HDD bays



MB Chassis	X10QBL	X10QBL-CT	X10QBi**	X10QRH+**	X100Bi-CPU**
1U	● SC818A-1K43LPB 1U Heatsink: SNK-P0047PS	● SC818A-1K43LPB 1U Heatsink: SNK-P0047PS			
2U	● SC828TQ-R1K43LPB 2U Heatsink: SNK-P0048PS	● SC828TQ-R1K43LPB 2U Heatsink: SNK-P0048PS		For Supermicro Complete System Only	
4U/ Tower	● SC748TQ-R1K43B ● SC848E16-R1K62B ● SC418E16-R1K62B ● SC418E16-R1K62B2 2U Heatsink: SNK-P0048PS	● SC748TQ-R1K43B ● SC848E16-R1K62B ● SC418E16-R1K62B ● SC418E16-R1K62B2 2U Heatsink: SNK-P0048PS	For Supermicro Complete System Only		For Supermicro Complete System Only
7U					For Supermicro Complete System Only

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 family.

● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

** For integration into SuperServer® systems only, not available for sale as subsystems.

NEW! X12 UP SERVERBOARDS

3rd Gen
Intel® Xeon®
Scalable
processors
Supported



1U Optimized



1U Optimized



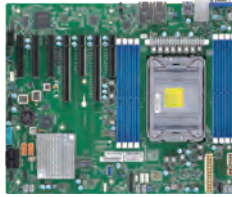
MODEL	X12SPO-F	X12SPO-NTF
Processor	3rd Gen Intel® Xeon® Scalable processors Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP	3rd Gen Intel® Xeon® Scalable processors Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP
Chipset	Intel® C621A	Intel® C621A
Form Factor	ATX, 12" x 10" (30.48cm x 25.4cm)	ATX, 12" x 10" (30.48cm x 25.4cm)
Optimized Chassis	813MF2TQC-505CB 813MF2TQC4-R407CB 116AC10-R860CB-N10	813MF2TQC-505CB 813MF2TQC4-R407CB 116AC10-R860CB-N10
Memory Capacity & Slots	Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 2TB Intel® Optane™ Persistent Memory 200 Series, in 8 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 2TB Intel® Optane™ Persistent Memory 200 Series, in 8 DIMM slots
Expansion Slots	1 PCI-E 4.0 x16, 2 PCI-E 4.0 NVMe x8 Internal Port(s) M.2 Interface: 2 SATA/PCI-E 3.0 x4 M.2 Form Factor: 2280/22110 M.2 Key: M-Key	1 PCI-E 4.0 x16, 5 PCI-E 4.0 NVMe x8 Internal Port(s) M.2 Interface: 2 SATA/PCI-E 3.0 x4 M.2 Form Factor: 2280/22110 M.2 Key: M-Key
Onboard RAID Controller	Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with Intel® i350 Gigabit Ethernet Controller	Dual LAN with Intel® X550 10GBase-T Ethernet Controller
Onboard VGA	1 VGA port, ASPEED AST2600 BMC	1 VGA port, ASPEED AST2600 BMC
USB Ports	6 USB 2.0 ports (2 rear + 4 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)	6 USB 2.0 ports (2 rear + 4 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)
Other Onboard I/O Devices	TPM Header 2 COM Ports (1 rear, 1 header)	TPM Header 2 COM Ports (1 rear, 1 header)
Manageability	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 7-fan status, Chassis intrusion header, HT, Monitors CPU voltages, System temperature, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 7-fan status, Chassis intrusion header, HT, Monitors CPU voltages, System temperature, VBAT
Other Features	ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, RoHS, RoT, UID, WOL	ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, RoHS, RoT, UID, WOL
BIOS	AMI UEFI	AMI UEFI

NEW! X12 UP SERVERBOARDS

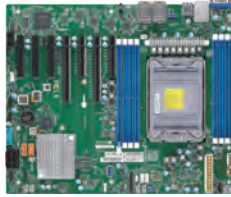
3rd Gen
Intel® Xeon®
Scalable
processors
Supported



Cost-optimized
I/O Intensive, Dual 1 GbE



Cost-optimized
I/O Intensive, Quad 1 GbE



W/O,
3 AOC in 1U, Dual 1 GbE



W/O,
3 AOC in 1U, Dual 10 GbE



MODEL	X12SPL-F		X12SPL-LN4F		X12SPW-F	X12SPW-TF
Processor	3rd Gen Intel® Xeon® Scalable processors Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP		3rd Gen Intel® Xeon® Scalable processors Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP		3rd Gen Intel® Xeon® Scalable processors Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP	3rd Gen Intel® Xeon® Scalable processors Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP
Chipset	Intel® C621A		Intel® C621A		Intel® C621A	Intel® C621A
Form Factor	ATX, 12.1" x 10" (30.73cm x 25.4cm)		ATX, 12.1" x 10" (30.73cm x 25.4cm)		Proprietary WIO, 8" x 13" (20.32cm x 33.02cm)	Proprietary WIO, 8" x 13" (20.32cm x 33.02cm)
Optimized Chassis	813MF2TQC-505CB 514-505 113MFAC2-605CB 113MFAC2-R804CB 813MF2TQC4-R407CB 515-505 SCLA26E1C4-R609LP 213LT-600LPB 825MBTQC-R802LPB 825TQC-R802LPB SCLA25TQC- R609LP 835TQC- R802B 842TQC-668B		813MF2TQC-505CB 514-505 113MFAC2-605CB 113MFAC2-R804CB 813MF2TQC4-R407CB 515-505 SCLA26E1C4-R609LP 213LT-600LPB 825MBTQC-R802LPB 825TQC-R802LPB SCLA25TQC- R609LP 835TQC- R802B 842TQC-668B		116AC10-R706WB3 815TQC4-605WB2 815TQC4-R504WB3 LA15TQC-R504W LA15TQC-563W LB16AC2-R504W 825BTQC-R609WB	116AC10-R706WB3 815TQC4-605WB2 815TQC4-R504WB3 LA15TQC-R504W LA15TQC-563W LB16AC2-R504W 825BT
Memory Capacity & Slots	Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 2TB Intel® Optane™ Persistent Memory 200 Series, in 8 DIMM slots		Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 2TB Intel® Optane™ Persistent Memory 200 Series, in 8 DIMM slots		Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 2TB Intel® Optane™ Persistent Memory 200 Series, in 8 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 2TB Intel® Optane™ Persistent Memory 200 Series, in 8 DIMM slots
Expansion Slots	2 PCI-E 4.0 x8, 1 PCI-E 4.0 x16, 1 PCI-E 4.0 x8 (in x16 slot) 3 PCI-E 3.0 x8 M.2 Interface: 1 SATA/PCI-E 3.0 x4 M.2 Form Factor: 2280/22110 M.2 Key: M-Key		2 PCI-E 4.0 x8, 1 PCI-E 4.0 x16, 1 PCI-E 4.0 x8 (in x16 slot) 3 PCI-E 3.0 x8 M.2 Interface: 1 SATA/PCI-E 3.0 x4 M.2 Form Factor: 2280/22110 M.2 Key: M-Key		1 PCI-E 4.0 x16 Right Riser Slot, 1 PCI-E 4.0 x32 Left Riser Slot, 4 PCI-E 4.0 NVMe x4 Internal Port(s) M.2 Interface: PCI-E 3.0 x4 and SATA M.2 Form Factor: 2280, 22110 M.2 Key: M-Key	1 PCI-E 4.0 x16 Right Riser Slot, 1 PCI-E 4.0 x32 Left Riser Slot, 4 PCI-E 4.0 NVMe x4 Internal Port(s) M.2 Interface: PCI-E 3.0 x4 and SATA M.2 Form Factor: 2280, 22110 M.2 Key: M-Key
Onboard RAID Controller	Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10		Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10		Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with Intel® i210 Gigabit Ethernet Controller		Quad LAN with Intel® i210 Gigabit Ethernet Controller		Dual LAN with 1GbE with Intel® i210	Dual LAN with 10GbE-T with Intel® X550
Onboard VGA	1 VGA port, ASPEED AST2600 BMC		1 VGA port, ASPEED AST2600 BMC		1 VGA port, ASPEED AST2600 BMC	1 VGA port, ASPEED AST2600 BMC
USB Ports	6 USB 2.0 ports (2 rear + 4 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)		6 USB 2.0 ports (2 rear + 4 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)		4 USB 2.0 ports (2 rear + 2 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)	4 USB 2.0 ports (2 rear + 2 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)
Other Onboard I/O Devices	TPM Header 1 COM Port (1 header)		TPM Header 1 COM Port (1 header)		2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)
Manageability	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog		Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog		Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 7-fan status, Chassis intrusion header, HT, Monitors CPU voltages, System temperature, VBAT		+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 7-fan status, Chassis intrusion header, HT, Monitors CPU voltages, System temperature, VBAT		+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 7-fan status, Chassis intrusion header, HT, Monitors CPU voltages, Supports system management utility, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 7-fan status, Chassis intrusion header, HT, Monitors CPU voltages, Supports system management utility, VBAT
Other Features	ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, RoHS, RoT, UID, WOL		ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, RoHS, RoT, UID, WOL		ACPI power management, Control of power-on for recovery from AC power loss, RoHS, UID, WOL	ACPI power management, Control of power-on for recovery from AC power loss, RoHS, UID, WOL
BIOS	AMI UEFI		AMI UEFI		AMI UEFI	AMI UEFI

3rd Gen
Intel® Xeon®
Scalable
processors
Supported



*Embedded Ready
Quad 1GbE*



*Embedded Ready
Dual 10GbE + Quad 1GbE*



*Embedded Ready
Dual 10GbE*



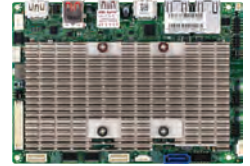
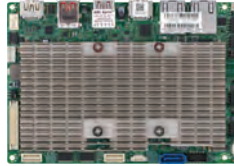
High Performance



MODEL	X12SPM-LN4F		X12SPM-LN6TF		X12SPM-TF		X12SPi-TF
Processor	3rd Gen Intel® Xeon® Scalable Processors; Single Socket LGA-4189 (Socket P+) supported, CPU TDP support up to 270W TDP		3rd Gen Intel® Xeon® Scalable Processors; Single Socket LGA-4189 (Socket P+) supported, CPU TDP support up to 270W TDP		3rd Gen Intel® Xeon® Scalable Processors; Single Socket LGA-4189 (Socket P+) supported, CPU TDP support up to 270W TDP		3rd Gen Intel® Xeon® Scalable processors Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP
Chipset	Intel® C621A		Intel® C621A		Intel® C621A		Intel® C621A
Form Factor	microATX 9.6" x 9.6" (24.38cm x 24.38cm)		microATX, 9.6" x 9.6" (24.38cm x 24.38cm)		microATX, 9.6" x 9.6" (24.38cm x 24.38cm)		ATX, 12.1" x 10" (30.73cm x 25.4cm)
Optimized Chassis	813MF2TQC-505CB 514-505 113MFAC2-605CB 113MFAC2-R804CB 813MF2TQC4-R407CB 515-505 SCLA26E1C4-R609LP	213LT-600LPB 825MBTQC-R802LPB 825TQC-R802LPB SCLA25TQC-R609LP 835TQC-R802B 842TQC-668B	813MF2TQC-505CB 514-505 113MFAC2-605CB 113MFAC2-R804CB 813MF2TQC4-R407CB 515-505 SCLA26E1C4-R609LP	213LT-600LPB 825MBTQC-R802LPB 825TQC-R802LPB SCLA25TQC-R609LP 835TQC-R802B 842TQC-668B	813MF2TQC-505CB 514-505 113MFAC2-605CB 113MFAC2-R804CB 813MF2TQC4-R407CB 515-505 SCLA26E1C4-R609LP	213LT-600LPB 825MBTQC-R802LPB 825TQC-R802LPB SCLA25TQC-R609LP 835TQC-R802B 842TQC-668B	SCLA26E1C4-R609LP SCLA25TQC-R609LP SC826BAC12-R802LPB
Memory Capacity & Slots	Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 2TB Intel® Optane™ Persistent Memory 200 Series, in 8 DIMM slots		Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 2TB Intel® Optane™ Persistent Memory 200 Series, in 8 DIMM slots		Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 2TB Intel® Optane™ Persistent Memory 200 Series, in 8 DIMM slots		Up to 2TB RDIMM, DDR4-3200MHz; Up to 2TB LRDIMM, DDR4-3200MHz Up to 2TB Intel® Optane™ Persistent Memory 200 Series, in 8 DIMM slots
Expansion Slots	1 PCI-E 4.0 x8, 2 PCI-E 4.0 x16, 4 PCI-E 4.0 NVMe x4 Internal Port(s) M.2 Interface: 1 SATA/PCI-E 3.0 x4 M.2 Form Factor: 2280, 22110 M.2 Key: M-Key		1 PCI-E 4.0 x8, 2 PCI-E 4.0 x16, 4 PCI-E 4.0 NVMe x4 Internal Port(s) M.2 Interface: 1 SATA/PCI-E 3.0 x4 M.2 Form Factor: 2280, 22110 M.2 Key: M-Key		1 PCI-E 4.0 x8, 2 PCI-E 4.0 x16, 4 PCI-E 4.0 NVMe x4 Internal Port(s) M.2 Interface: 1 SATA/PCI-E 3.0 x4 M.2 Form Factor: 2280, 22110 M.2 Key: M-Key		2 PCI-E 4.0 x16, 2 PCI-E 4.0 x8, 1 PCI-E 4.0 x8 (in x16 slot), 1 PCI-E 4.0 NVMe x8 Internal Port(s) M.2 Interface: 1 SATA/PCI-E 3.0 x4 M.2 Form Factor: 2280/22110 M.2 Key: M-Key
Onboard RAID Controller	Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10		Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10		Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10		Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Quad LAN with 1GbE with Intel® I350-AM4		Quad LAN with 1GbE with Intel® I350-AM4 Dual LAN with 10GbBase-T with Intel® X550		Dual LAN with 10GbBase-T with Intel® X550		Dual LAN with 10GbBase-T with Intel® X550
Onboard VGA	1 VGA port ASPEED AST2600 BMC		1 VGA port, ASPEED AST2600 BMC		1 VGA port, ASPEED AST2600 BMC		1 VGA D-Sub Connector port, ASPEED AST2600 BMC
USB Ports	6 USB 2.0 ports (2 rear + 4 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)		6 USB 2.0 ports (2 rear + 4 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)		6 USB 2.0 ports (2 rear + 4 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)		4 USB 2.0 ports (2 rear + 2 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)
Other Onboard I/O Devices	2 ports SuperDOM TPM Header 1 COM Port (1 header)		2 ports SuperDOM TPM Header 1 COM Port (1 header)		2 ports SuperDOM TPM Header 1 COM Port (1 header)		TPM Header 1 COM Port (1 header)
Manageability	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5, Watchdog		Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5, Watchdog		Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5, Watchdog		Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 5 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, VBAT		+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 5 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, VBAT		+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 5 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, VBAT		+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 7-fan status, Chassis intrusion header, HT, Monitors CPU voltages, System temperature, VBAT
Other Features	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, UID, WOL		ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, UID, WOL		ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, UID, WOL		ACPI power management, ATX Power connector, Chassis intrusion detection, Dual Cooling Zones, NCSI header, RoHS, RoT, UID
BIOS	AMI UEFI		AMI UEFI		AMI UEFI		AMI UEFI

NEW! X12 UP EMBEDDED

3rd Gen
Intel® Xeon®
Scalable
processors
Supported



MODEL	X12STN-C X12STN-C-WOHS	X12STN-E X12STN-E-WHOS	X12STN-H X12STN-H-WOHS	X12STN-L X12STN-L-WOHS
Processor	Intel® Celeron® Processor 6305UE Single Socket FCBGA-1449 supported, CPU TDP supports 15W TDP	11th Generation Intel® Core™ i5- 1145GRE Processor Single Socket FCBGA-1449 supported, CPU TDP supports 12/15/28W TDP	11th Generation Intel® Core™ i7- 1185G7E Processor Single Socket FCBGA-1449 supported, CPU TDP supports 12/15/28W TDP	11th Generation Intel® Core™ i3- 1115GRE Processor Single Socket FCBGA-1449 supported, CPU TDP supports 12/15/28W TDP
Chipset	System on Chip	System on Chip	System on Chip	System on Chip
Form Factor	3.5" SBC, 5.7" x 4.0" (14.6cm x 10.16cm)	3.5" SBC, 5.7" x 4.0" (14.6cm x 10.16cm)	3.5" SBC, 5.7" x 4.0" (14.6cm x 10.16cm)	3.5" SBC, 5.7" x 4.0" (14.6cm x 10.16cm)
Optimized Chassis				
Memory Capacity & Slots	Up to 64GB Unbuffered non-ECC SO-DIMM, DDR4-3200MHz, in 2 DIMM slots	Up to 64GB Unbuffered non-ECC SO- DIMM, DDR4-3200MHz, in 2 DIMM slots	Up to 64GB Unbuffered non-ECC SO-DIMM, DDR4-3200MHz, in 2 DIMM slots	Up to 64GB Unbuffered non-ECC SO-DIMM, DDR4-3200MHz, in 2 DIMM slots
Expansion Slots	1 PCI-E 4.0 NVMe x4 M.2 Key: B-Key, M-Key, E-Key M.2 2242/3042/2280 B-Key (USB3.0/2.0, SATA Gen3/PCI-E Gen3 x1) with nano SIM holder	1 PCI-E 4.0 NVMe x4 M.2 Key: B-Key, M-Key, E-Key M.2 2242/3042/2280 B-Key (USB3.0/2.0, SATA Gen3/PCI-E Gen3 x1) with nano SIM holder	1 PCI-E 4.0 NVMe x4 M.2 Key: B-Key, M-Key, E-Key M.2 2242/3042/2280 B-Key (USB3.0/2.0, SATA Gen3/PCI-E Gen3 x1) with nano SIM holder	1 PCI-E 4.0 NVMe x4 M.2 Key: B-Key, M-Key, E-Key M.2 2242/3042/2280 B-Key (USB3.0/2.0, SATA Gen3/PCI-E Gen3 x1) with nano SIM holder
	M.2 2230 E-Key (CNVi/PCI-E 3.0 x1/ USB2)	M.2 2230 E-Key (CNVi/PCI-E 3.0 x1/ USB2)	M.2 2230 E-Key (CNVi/PCI-E 3.0 x1/ USB2)	M.2 2230 E-Key (CNVi/PCI-E 3.0 x1/ USB2)
	M.2 2242/2280 M-Key (PCI-E 4.0 x4), NVMe support	M.2 2242/2280 M-Key (PCI-E 4.0 x4), NVMe support	M.2 2242/2280 M-Key (PCI-E 4.0 x4), NVMe support	M.2 2242/2280 M-Key (PCI-E 4.0 x4), NVMe support
Onboard RAID Controller				
Onboard LAN	Dual LAN with Intel® Ethernet Controller I225-IT 2.5G, TSN, industrial grade	Dual LAN with Intel® Ethernet Controller I225-IT 2.5G, TSN, industrial grade.	Dual LAN with Intel® Ethernet Controller I225-IT	Dual LAN with Intel® Ethernet Controller I225-IT 2.5G, TSN, industrial grade
Onboard VGA	2 HDMI ports, 1 48-bit LVDS port, 1 DP (Alt mode) port, Dual channel 48-bit LVDS(max. resolution up to 1920x1200@60Hz), HDMI 2.0b (max. resolution up to 4096x2160@60Hz), HDMI 1.4b (max. resolution up to 4096x2160@30Hz), DP (Alt mode, max. resolution up to 4096x2304@60Hz), Intel® UHD Graphics	2 HDMI ports, 1 48-bit LVDS port, 1 DP (Alt mode) port, Dual channel 48-bit LVDS(max. resolution up to 1920x1200@60Hz), HDMI 2.0b (max. resolution up to 4096x2160@60Hz), HDMI 1.4b (max. resolution up to 4096x2160@30Hz), DP (Alt mode, max. resolution up to 4096x2304@60Hz), Intel® Iris® Xe Graphics	2 HDMI ports, 1 48-bit LVDS port, 1 DP (Alt mode) port, Dual channel 48-bit LVDS(max. resolution up to 1920x1200@60Hz), HDMI 2.0b (max. resolution up to 4096x2160@60Hz), HDMI 1.4b (max. resolution up to 4096x2160@30Hz), DP (Alt mode, max. resolution up to 4096x2304@60Hz), Intel® Iris® Xe Graphics	2 HDMI ports, 1 48-bit LVDS port, 1 DP (Alt mode) port, Dual channel 48-bit LVDS(max. resolution up to 1920x1200@60Hz), HDMI 2.0b (max. resolution up to 4096x2160@60Hz), HDMI 1.4b (max. resolution up to 4096x2160@30Hz), DP (Alt mode, max. resolution up to 4096x2304@60Hz), Intel® UHD Graphics for 11th Gen Intel® Processors
USB Ports	4 USB 2.0 ports (4 via headers) 4 USB 3.2 Gen2 ports (3 Rear Type A + 1 Rear Type C) ALC 8885 HD Audio TPM 2.0 Chip	4 USB 2.0 ports (4 via headers) 4 USB 3.2 Gen2 ports (3 Rear Type A + 1 Rear Type C) ALC 8885 HD Audio TPM 2.0 Chip	4 USB 2.0 ports (4 via headers) 4 USB 3.2 Gen2 ports (3 Rear Type A + 1 Rear Type C) ALC 8885 HD Audio TPM 2.0 Chip	4 USB 2.0 ports (4 via headers) 4 USB 3.2 Gen2 ports (3 Rear Type A + 1 Rear Type C) ALC 8885 HD Audio TPM 2.0 Chip
Other Onboard I/O Devices	4 COM Ports (4 headers); (2 x RS232, 2 RS232/422/485, RS-485 supports Auto flow control) 1 HD Audio header Mic-in/ Headphone-out (Audio only support at 0~60C) 1 8-bit GPIO header	4 COM Ports (4 headers); (2 x RS232, 2 RS232/422/485, RS-485 supports Auto flow control) 1 HD Audio header Mic-in/Headphone- out (Audio only support at 0~60C) 1 8-bit GPIO header	4 COM Ports (4 headers); (2 x RS232, 2 RS232/422/485, RS-485 supports Auto flow control) 1 HD Audio header Mic-in/ Headphone-out (Audio only support at 0~60C) 1 8-bit GPIO header	4 COM Ports (4 headers); (2 x RS232, 2 RS232/422/485, RS-485 supports Auto flow control) 1 HD Audio header Mic-in/ Headphone-out (Audio only support at 0~60C) 1 8-bit GPIO header
	1 SMBus header	1 SMBus header	1 SMBus header	1 SMBus header
Manageability	1 System Fan AMT, SuperDoctor® 5, vPro, Watchdog -WOHS: w/o Heatsink	1 System Fan AMT, SuperDoctor® 5, vPro, Watchdog -WOHS: w/o Heatsink	1 System Fan AMT, SuperDoctor® 5, vPro, Watchdog -WOHS: w/o Heatsink	1 System Fan AMT, SuperDoctor® 5, vPro, Watchdog -WOHS: w/o Heatsink
PC Health Monitoring	+12V, +3.3V, +5V, 1.2V (VDIMM), 3.3V standby, Monitors CPU voltages, System level control, System temperature, VBAT	+12V, +3.3V, +5V, 1.2V (VDIMM), 3.3V standby, Monitors CPU voltages, System level control, System temperature, VBAT	+12V, +3.3V, +5V, 1.2V (VDIMM), 3.3V standby, Monitors CPU voltages, System level control, System temperature, VBAT	+12V, +3.3V, +5V, 1.2V (VDIMM), 3.3V standby, Monitors CPU voltages, System level control, System temperature, VBAT
Other Features	8-pin 12-24V DC Power Connector, ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	8-pin 12-24V DC Power Connector, ACPI power management, Control of power- on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	8-pin 12-24V DC Power Connector, ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	8-pin 12-24V DC Power Connector, ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

NEW! X12 UP EMBEDDED

3rd Gen Intel® Xeon® Scalable processors Supported



High Performance
vPro AMT



High Performance
Supports up to 10 cores



High Performance
Supports up to 10 cores



Embedded, High
Performance
Quad 1GbE LAN



Embedded, High
Performance
Quad 1GbE LAN
Dual 25G SFP28



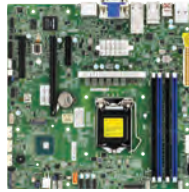
MODEL	X12SCQ	X12SCV-LVDS	X12SCV-W	X12SPZ-LN4F	X12SPZ-SPLN6F
Processor	10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processor Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 125W TDP	10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/Core™ i3 Processor, Intel® Xeon® W-1200 Processors Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 65W TDP Intel® W480E	10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/Core™ i3 Processor, Intel® Xeon® W-1200 Processors Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 65W TDP Intel® W480E	3rd Gen Intel® Xeon® Scalable processors Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP	3rd Gen Intel® Xeon® Scalable processors Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP
Chipset	Intel® Q470E	Intel® W480E	Intel® W480E	Intel® C621A	Intel® C621A
Form Factor	microATX, 9.6" x 9.6" (24.38cm x 24.38cm)	Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)	Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)
Optimized Chassis					
Memory Capacity & Slots	Up to 128GB Unbuffered non-ECC UDIMM, DDR4-2933MHz, in 4 DIMM slots	Up to 64GB DDR4 ECC/non-ECC SO-DIMM, DDR4-2933MHz, in 2 DIMM slots	Up to 64GB DDR4 ECC/non-ECC SO-DIMM, DDR4-2933MHz, in 2 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz; Up to 2TB Intel® Optane™ Persistent Memory 200 Series, in 8 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz; Up to 2TB Intel® Optane™ Persistent Memory 200 Series, in 8 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 SLOT7 1 PCI-E 3.0 x8 SLOTS *SLOT7/SLOT5: x16/NA or x8/x8 2 PCI-E 3.0 x4 1 M.2 M-Key PCI-E 3.0 x4, 2280/22110 M.2 Interface: 1 PCI-E 3.0 x4, RAID 0 & 1 M.2 Form Factor: 2242/2280 M.2 Key: M-Key	1 PCI-E 3.0 x16 slots (16/NA or 8/8) 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2242/2280 1 M.2 E-Key CNVi/PCI-E 3.0 x1, 3042	1 PCI-E 3.0 x16 slots (16/NA or 8/8) 1 M.2 M-Key PCI-E 3.0 x4, 2280	2 PCI-E 4.0 x16, 1 PCI-E 4.0 NVMe x8 SlimSAS Internal Port(s), 1 PCI-E 4.0 NVMe x4 Internal Port(s), 1 PCI-E 3.0 NVMe x4 Internal Port(s) 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2242/2280	2 PCI-E 4.0 x16, 1 PCI-E 4.0 NVMe x8 SlimSAS Internal Port(s), 1 PCI-E 4.0 NVMe x4 Internal Port(s), 1 PCI-E 3.0 NVMe x4 Internal Port(s) 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2242/2280
Onboard RAID Controller	Intel® Q470E controller for 6 RAID 0,1,5,10	Intel® W480E controller for 2 SATA3 (6 Gbps) ports; RAID 0,1	Intel® W480E controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621A controller for 6 SATA3 (6 Gbps) ports; 4 SATA ports via OcuLink; RAID 0,1,5,10	Intel® C621A controller for 6 SATA3 (6 Gbps) ports; 4 SATA ports via OcuLink; RAID 0,1,5,10
Onboard LAN	Single LAN with Intel® PHY I219LM LAN controller Single LAN with Intel® Ethernet Controller I210-AT	Single LAN with Intel® PHY I219LM LAN controller Single LAN with Intel® Ethernet Controller I210-AT 2 HDMI ports, 1 DP (DisplayPort) port, 1 LVDS port, 3 Independent Displays thru HDMI 2.0a/HDMI1.4/DP/LVDS, Intel® HD Graphics	Single LAN with Intel® Ethernet i225LM Single LAN with Intel® Ethernet i225V	Quad LAN with 1GbE with Intel® I350-AM4	Quad LAN with 1GbE with Intel® I350-AM4 Dual LAN with Broadcom BCM57414 25G SFP28
Onboard VGA	1 VGA port, 1 HDMI port, 1 DP (DisplayPort) port, 1 DVI - D port, Intel® HD Graphics	1 HDMI port, 1 DP (DisplayPort) port, Intel® HD Graphics	1 HDMI port, 1 DP (DisplayPort) port, Intel® HD Graphics	1 VGA port,	1 VGA port,
USB Ports	6 USB 2.0 ports (2 rear + 4 via headers) 6 USB 3.1 Gen2 ports (2 Rear Type A + 2 Rear Type C, 2 via headers) 1 Port SuperDOM	4 USB 2.0 ports (4 via headers) 4 USB 3.2 Gen2 ports (4 Rear Type A)	4 USB 2.0 ports (4 via headers) 4 USB 3.2 Gen2 ports (4 Rear Type A)	4 USB 2.0 ports (4 via headers) 4 USB 3.2 Gen1 ports (2 rear + 2 via headers)	4 USB 2.0 ports (4 via headers) 4 USB 3.2 Gen1 ports (2 rear + 2 via headers)
Other Onboard I/O Devices	1 Port SuperDOM TPM 2.0 Header & Chip both 4 COM Ports (4 headers)	ALC 888S HD Audio TPM Header & Chip both; 2 COM ports via 1 header	ALC 888S HD Audio TPM Header & Chip both 1 COM Port (1 header)	TPM Header & Chip both 1 COM Port (1 header)	TPM Header & Chip both 1 COM Port (1 header)
Manageability	AMT, SUM, SuperDoctor® 5, vPro, Watchdog	AMT, NMI, SuperDoctor® 5, vPro, Watchdog	AMT, NMI, SuperDoctor® 5, vPro, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.35V, +1.5V, +1.8V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 4 -fan status, 4 fans with tachometer monitoring, VBAT	+1.8V, +3.3V, 3 -fan status, Chipset Voltage, CPU temperature, HT, Monitors CPU voltages, PCH temperature, System level control, System temperature, VBAT	+1.8V, +3.3V, 3 -fan status, Chipset Voltage, CPU temperature, HT, Monitors CPU voltages, PCH temperature, System level control, System temperature, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 6 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, VBAT 12V DC or ATX Power Source, ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, Node Manager Support, RoHS	+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 6 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, VBAT 12V DC or ATX Power Source, ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, Node Manager Support, RoHS
Other Features	ACPI power management, ATX Power connector, Chassis intrusion detection, M.2 NGFF connector, RoHS	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, M.2 NGFF connector, RoHS, System level control, WOL	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, M.2 NGFF connector, RoHS, System level control, WOL		
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	256Mb SPI Flash with AMI BIOS	256Mb SPI Flash with AMI BIOS

NEW! X12 UP EMBEDDED

3rd Gen
Intel® Xeon®
Scalable
processors
Supported



High Performance
Embedded, Dual 10GbE
vPro AMT, IPMI



High Performance
Embedded, vPro AMT, IPMI

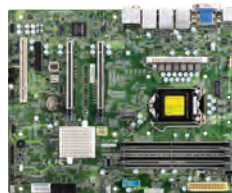


High Performance
Embedded, vPro AMT, IPMI



MODEL	X12SCZ-TLN4F	X12SCZ-QF	X12SCZ-F
Processor	10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/ Core™ i3 Processor, Intel® Xeon® W-1200 Processors Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 125W TDP	10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/ Core™ i3/Pentium®/Celeron® Processor Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 125W TDP	10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/ Core™ i3 Processor, Intel® Xeon® W-1200 Processors Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 125W TDP
Chipset	Intel® W480E	Intel® Q470E	Intel® W480E
Form Factor	microATX, 9.6" x 9.6" (24.38cm x 24.38cm)	microATX, 9.6" x 9.6" (24.38cm x 24.38cm)	microATX, 9.6" x 9.6" (24.38cm x 24.38cm)
Optimized Chassis	510FT-203B	510FT-203B	510FT-203B
Memory Capacity & Slots	Up to 128GB Unbuffered ECC/non-ECC UDIMM, DDR4-2933MHz, in 4 DIMM slots	Up to 128GB Unbuffered non-ECC UDIMM, DDR4-2933MHz, in 4 DIMM slots	Up to 128GB Unbuffered ECC/non-ECC UDIMM, DDR4-2933MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16, 1 PCI-E 3.0 x4 (in x8 slot), 1 PCI-E 3.0 x4 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2280/22110 1 M.2 E-Key CNVi/PCI-E 3.0 x1, 2230	1 PCI-E 3.0 x16, 1 PCI-E 3.0 x4 (in x8 slot), 1 PCI-E 3.0 x4 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2280/22110 1 M.2 E-Key CNVi/PCI-E 3.0 x1, 2230	1 PCI-E 3.0 x16, 1 PCI-E 3.0 x4 (in x8 slot), 1 PCI-E 3.0 x4 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2280/22110 1 M.2 E-Key CNVi/PCI-E 3.0 x1, 2230
Onboard RAID Controller	Intel® W480E controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® Q470E controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® W480E controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with Intel® X550 10GBase-T Ethernet Controller Single LAN with Intel® PHY I219LM LAN controller Single LAN with Intel® Ethernet Controller I210-AT	Single LAN with Intel® PHY I219LM LAN controller Single LAN with Intel® Ethernet Controller I210-AT	Single LAN with Intel® PHY I219LM LAN controller Single LAN with Intel® Ethernet Controller I210-AT
Onboard VGA	1 VGA D-Sub Connector port, 2 DP++(Dual-Mode DisplayPort) ports, 1 DVI - D port, ASPEED AST2500 BMC, Intel® HD Graphics	1 VGA D-Sub Connector port, 2 DP++(Dual-Mode DisplayPort) ports, 1 DVI - D port, ASPEED AST2500 BMC, Intel® HD Graphics	1 VGA D-Sub Connector port, 2 DP++(Dual-Mode DisplayPort) ports, 1 DVI - D port, ASPEED AST2500 BMC, Intel® HD Graphics
USB Ports	6 USB 2.0 ports (6 via headers) 6 USB 3.2 Gen2 ports (4 Rear Type A, 2 via headers)	6 USB 2.0 ports (6 via headers) 6 USB 3.1 Gen2 ports (4 Rear Type A, 2 via headers) 6 USB 3.2 Gen2 ports (4 Rear Type A, 2 via headers)	6 USB 2.0 ports (6 via headers) 6 USB 3.2 Gen2 ports (4 Rear Type A, 2 via headers)
Other Onboard I/O Devices	ALC 888S HD Audio TPM Header & Chip both 1 COM Port (1 header)	ALC 888S HD Audio TPM Header & Chip both 1 COM Port (1 header)	ALC 888S HD Audio TPM Header & Chip both 1 COM Port (1 header)
Manageability	AMT, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SUM, SuperDoctor® 5, vPro, Watchdog	AMT, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SUM, SuperDoctor® 5, vPro, Watchdog	AMT, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SUM, SuperDoctor® 5, vPro, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 5 -fan status, Chassis intrusion header, CPU, Memory temperature, PCH temperature, VBAT	+12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 5 -fan status, Chassis intrusion header, CPU, Memory, VBAT	+12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 5 -fan status, Chassis intrusion header, CPU, Memory, PCH temperature, VBAT
Other Features	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Dual Cooling Zones, M.2 NGFF connector, RoHS, UID	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Dual Cooling Zones, M.2 NGFF connector, RoHS, UID	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Dual Cooling Zones, M.2 NGFF connector, RoHS, UID
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

NEW! X12 UP WORKSTATION



MODEL	X12SAE		X12SCA-F	X12SPA-TF
Processor	10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processor, Intel® Xeon® W-1200 Processors Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 125W TDP		10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processor, Intel® Xeon® W-1200 Processors Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 125W TDP	3rd Gen Intel® Xeon® Scalable processors Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP
Chipset	Intel® W480		Intel® W480	Intel® C621A
Form Factor	ATX, 12" x 9.6" (30.48cm x 24.38cm)		ATX, 12" x 9.6" (30.48cm x 24.38cm)	E-ATX, 13" x 12" (33.02cm x 30.48cm)
Optimized Chassis	GS5A-754K 732D3-903B 732D4-903B	732D4-668B 842TQC-668B		747BTQ-R2K04B 743AC-1K26B-SQ
Memory Capacity & Slots	128GB Unbuffered ECC/non-ECC UDIMM, DDR4-2933MHz, in 4 DIMM slots		128GB Unbuffered ECC/non-ECC UDIMM, DDR4-2933MHz, in 4 DIMM slots	Up to 4TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz Up to 4TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 16 DIMM slots
Expansion Slots	1 PCI-E 3.0 x4, 2 PCI-E 3.0 x16 slots (16/NA or 8/8), 1 PCI-E 3.0 x1 1 - 5V PCI 32bit M.2 Interface: 2 PCI-E 3.0 x4, RAID 0 & 1 M.2 Form Factor: 2280/22110 M.2 Key: M-Key		1 PCI-E 3.0 x4, 2 PCI-E 3.0 x16 slots (16/NA or 8/8) 1 - 5V PCI 32bit M.2 Interface: 2 PCI-E 3.0 x4, RAID 0 & 1 M.2 Form Factor: 2280/22110 M.2 Key: M-Key	4 PCI-E 4.0 x16, 3 PCI-E 4.0 x8 (in x16 slot) M.2 Interface: 4 PCI-E 4.0 x4 M.2 Form Factor: 2260/2280/22110 M.2 Key: M-Key M.2 support to RAID 0,1, 5, 10, VROC key is required for RAID.
Onboard RAID Controller	Intel® W480 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10		Intel® W480 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621A controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Single LAN with Intel® PHY I219LM LAN controller for AMT/vPro Single LAN with Intel® Ethernet i225V		Single LAN with Intel® PHY I219LM LAN controller for AMT/vPro Single LAN with Intel® Ethernet i225LM	Single LAN with Intel® Ethernet Controller I210-AT Single LAN with Marvell AQC113 Single LAN with Realtek RTL8211F PHY (dedicated IPMI)
Onboard VGA	1 DP (DisplayPort) port, 1 HDMI port, 1 DVI - D port,		1 DP (DisplayPort) port, 1 HDMI port, 1 DVI - D port, 1 VGA port, VGA port is dedicated for IPMI,	1 VGA port, VGA connector is dedicated for IPMI., ASPEED AST2500 BMC
USB Ports	2 USB 2.0 ports (2 via headers) 3 USB 3.2 Gen1 ports (1 via header + 2 Type A) 5 USB 3.2 Gen2 ports (3 Rear Type A + 1 Rear Type C, 1 via header)		2 USB 2.0 ports (2 via headers) 3 USB 3.2 Gen1 ports (1 via header + 2 Type A) 5 USB 3.2 Gen2 ports (3 Rear Type A + 1 Rear Type C, 1 via header)	4 USB 2.0 ports (2 rear + 2 via headers) 6 USB 3.2 Gen1 ports (4 rear + 2 via headers) 2 USB 3.2 Gen2 ports (1 Type A, 1 Type C) 1 USB 3.2 Gen2x2 ports (1 Type C)
Other Onboard I/O Devices	ALC 888S HD Audio TPM 2.0 Header 1 COM Port (1 header)		ALC 888S HD Audio TPM 2.0 Header 1 COM Port (1 header)	ALC 888S HD Audio TPM 2.0 Header 2 COM Ports (1 rear, 1 header)
Manageability	AMT, SSM, SUM, SuperDoctor® 5, vPro, Watchdog		AMT, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SSM, SUM, SuperDoctor® 5, vPro, Watchdog	IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SPM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.0V PCH, +1.8V PCH, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 3.3V standby, CPU temperature, CPU thermal trip support, LAN temperature, Memory temperature, PCH temperature, System temperature, VBAT, VRM temperature		+1.0V PCH, +1.8V PCH, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 3.3V standby, CPU temperature, CPU thermal trip support, LAN temperature, Memory temperature, PCH temperature, System temperature, VBAT, VRM temperature	+1.8V, +12V, +3.3V, +5V, +5V standby, 10 -fan status, 3.3V standby, HT, Memory, VBAT
Other Features	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, RoHS, WOL		8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, RoHS, UID, WOL	N/A
BIOS	256Mb SPI Flash with AMI BIOS		256Mb SPI Flash with AMI BIOS	256Mb SPI Flash with AMI BIOS

NEW! X12 UP WORKSTATION



MODEL	X12SAE-5	X12SCA-5F
Processor	11th Generation Intel® Core™ i5/i7/i9 Processors, Intel® Xeon® W-1300 Processors Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 125W TDP	11th Generation Intel® Core™ i5/i7/i9 Processors, Intel® Xeon® W-1300 Processors Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 125W TDP
Chipset	Intel® W580	Intel® W580
Form Factor	ATX, 12" x 9.6" (30.48cm x 24.38cm)	ATX, 12" x 9.6" (30.48cm x 24.38cm)
Optimized Chassis		
Memory Capacity & Slots	128GB Unbuffered ECC/non-ECC UDIMM, DDR4-3200MHz, in 4 DIMM slots	128GB Unbuffered ECC/non-ECC UDIMM, DDR4-3200MHz, in 4 DIMM slots
Expansion Slots	2 PCI-E 4.0 x16 slots (16/NA or 8/8) 2 PCI-E 3.0 x1 1 - 5V PCI 32bit M.2 Interface: 1 PCI-E 4.0 x4 and 2 PCI-E 3.0 x4, RAID 0 & 1 M.2 Form Factor: 2280/22110 M.2 Key: M-Key RAID 5 only applied for INTEL Storage Device	2 PCI-E 4.0 x16 slots (16/NA or 8/8) 2 PCI-E 3.0 x1 1 - 5V PCI 32bit M.2 Interface: 1 PCI-E 4.0 x4 and 2 PCI-E 3.0 x4, RAID 0 & 1 M.2 Form Factor: 2280/22110 M.2 Key: M-Key RAID 5 only applied for INTEL Storage Device
Onboard RAID Controller	Intel® W580 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® W580 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Single LAN with Intel® Ethernet i225V Single LAN with Intel® PHY I219LM LAN controller for AMT/vPro	Single LAN with Intel® Ethernet i225LM Single LAN with Intel® PHY I219LM LAN controller for AMT/vPro Single LAN with Realtek RTL8211F PHY (dedicated IPMI) dedicated for IPMI
Onboard VGA	1 DP 1.4a port, 1 HDMI 2.0b port, 1 DVI - D port,	1 DP 1.4a port, 1 HDMI 2.0b port, 1 DVI - D port, 1 VGA port,
USB Ports	2 USB 2.0 ports (2 via headers) 2 USB 3.2 Gen1 ports (2 via headers) 4 USB 3.2 Gen2 ports (4 Rear Type A) 2 USB 3.2 Gen2x2 ports (1 Type C)	2 USB 2.0 ports (2 rear) 2 USB 3.2 Gen1 ports (2 via headers) 4 USB 3.2 Gen2 ports (4 Rear Type A) 2 USB 3.2 Gen2x2 ports (1 Type C)
Other Onboard I/O Devices	ALC 888S HD Audio TPM 2.0 Header 1 COM Port (1 header)	ALC 888S HD Audio TPM 2.0 Header 1 COM Port (1 header)
Manageability	AMT, SSM, SUM, SuperDoctor® 5, vPro, Watchdog	AMT, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SSM, SUM, SuperDoctor® 5, vPro, Watchdog
PC Health Monitoring	+1.8V PCH, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 3.3V standby, CPU temperature, CPU thermal trip support, PCH temperature, System temperature, VBAT	+1.8V PCH, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 3.3V standby, CPU temperature, CPU thermal trip support, PCH temperature, System temperature, VBAT
Other Features	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection
BIOS	256Mb SPI Flash with AMI BIOS	256Mb SPI Flash with AMI BIOS

UP SERVERBOARD

Most Popular
Entry-ClassCost-optimized
Micro Serverboard1U-Optimized
Quad LANWIO
1U 3AOC, Dual M.2,

MODEL	X11SCL-F		X11SCL-IF	X11SCL-LN4F		X11SCW-F
Processor	8th/9th Generation Intel® Core™i3/ Pentium®/Celeron® Processor, Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP		8th/9th Generation Intel® Core™i3/ Pentium®/Celeron® Processor, Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP	8th/9th Generation Intel® Core™i3/ Pentium®/Celeron® Processor, Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP		8th/9th Generation Intel® Core™i3/ Pentium®/Celeron® Processor, Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP
Chipset	Intel® C242		Intel® C242	Intel® C242		Intel® C246
Form Factor	microATX, 9.6" x 9.6" (24.38cm x 24.38cm)		Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)	microATX, 9.6" x 9.6" (24.38cm x 24.38cm)		Proprietary WIO, 8" x 13" (20.32cm x 33.02cm)
Optimized Chassis	813MFTQC-R407CB 514-R407C 515-R407 113MTQ-R400CB	SCLA25TQC-R609LP 731i-403B 731i-404B	504-203B 505-203B 1U Heatsink:SNK-P0049A4 1U Heatsink:SNK-P0049P 721TQ-350B2	813MFTQC-350CB2 813MFTQC-R407CB 512F-350B1 515-350 515-R407	514-R407C 113MTQ-R400CB 825TQC-R740LPB 825TQC-R802LPB	815TQC-R504WB2 LA15TQC-563W
Memory Capacity & Slots*	Up to 128GB Unbuffered ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots		Up to 64GB Unbuffered ECC UDIMM, DDR4-2666MHz, in 2 DIMM slots	Up to 128GB Unbuffered ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots		Up to 128GB Unbuffered ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x8 (in x16 slot), 2 PCI-E 3.0 x4 (in x8 slot) M.2 Interface: 1 PCI-E 3.0 x4 M.2 Form Factor: 2280/22110 M.2 Key: M-Key Double Height Connector		1 PCI-E 3.0 x16 (in x16 slot) M.2 Interface: 1 SATA/PCI-E 3.0 x4 M.2 Form Factor: 2280 M.2 Key: M-Key Double Height Connector	1 PCI-E 3.0 x16 M.2 Interface: 1 PCI-E 3.0 x4 M.2 Form Factor: 2280/22110 M.2 Key: M-Key Double Height Connector		1 PCI-E 3.0 x16, 1 PCI-E 3.0 x4 (in x8 slot) M.2 Interface: 1 SATA/PCI-E 3.0 x4 and 1 PCI-E 3.0 x4 M.2 Form Factor: 2260/2280/22110 M.2 Key: M-Key Double Height Connector
Onboard RAID Controller	Intel® C242 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10		Intel® C242 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C242 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10		Intel® C246 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with 1GbE with Intel® I210		Dual LAN with 1GbE with Intel® I210	Quad LAN with Intel® Ethernet Controller I210-AT		Dual LAN with Intel® Ethernet Controller I210-AT
Onboard VGA	1 VGA port, ASPEED AST2500 BMC		1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC		1 VGA port, ASPEED AST2500 BMC
USB Ports	6 USB 2.0 ports (2 rear + 4 via headers) 5 USB 3.1 Gen1 ports (2 Rears Type A, 2 via headers, 1 Type A)		4 USB 2.0 ports (2 rear + 2 via headers) 7 USB 3.2 Gen2 ports (2 rears (2 Rear Type A + 2 via headers + 1 Type A)	4 USB 2.0 ports (2 rear + 2 via headers) 5 USB 3.2 Gen2 ports (2 rears + 2 via headers + 1 Type A)		6 USB 2.0 ports (2 rear + 4 via headers) 1 USB 3.1 Gen1 ports, 1 Type A) 4 USB 3.1 Gen2 ports (2 rears, 2 via headers)
Other Onboard I/O Devices	TPM 2.0 Header 2 COM Ports (1 rear, 1 header)		TPM 2.0 Header 1 COM Port (1 rear)	TPM 2.0 Header 1 COM Port (1 header)		TPM 2.0 Header 2 COM Ports (1 rear, 1 header)
Manageability	IPMI2.0, KVM with dedicated LAN, SSM, SUM, SuperDoctor® 5		IPMI2.0, KVM with dedicated LAN, SSM, SUM, SuperDoctor® 5, Watchdog	IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog		Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, 5 -fan status, Chassis intrusion header, Chipset Voltage, Memory Voltages, Monitors CPU voltages, Supports system management utility, System level control, VBAT		+12V, +3.3V, +5V, +5V standby, 4 -fan status, Chassis intrusion header, Chipset Voltage, Memory Voltages, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, Chipset Voltage, Memory Voltages, Monitors CPU voltages, Supports system management utility, System level control, VBAT		+12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, Chipset Voltage, Memory Voltages, Monitors CPU voltages, Supports system management utility, System level control, VBAT
Thermal Control						
Other Features	ACPI power management, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, UID, WOL		ACPI power management, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, UID, WOL	ACPI power management, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, UID, WOL		ACPI power management, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, Node Manager Support, UID, WOL
BIOS	UEFI 256Mb		UEFI 256Mb	UEFI 256Mb		UEFI 256Mb

*For detailed memory configurations please refer to Supermicro website.

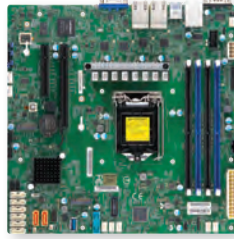
** For integration into SuperServer® systems only, not available for sale as subsystems.

UP SERVERBOARDS

Dual LAN
Dual M.2



Quad LAN
Dual M.2



1U-Optimized
Dual LAN



1U-Optimized
8x LAN

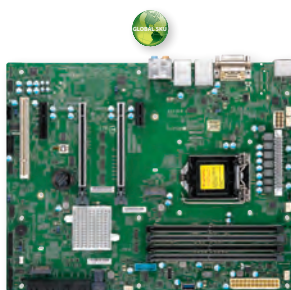


MODEL	X11SCH-F	X11SCH-LN4F	X11SCM-F	X11SCM-LN8F
Processor	8th/9th Generation Intel® Core™i3/ Pentium®/Celeron® Processor, Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP	8th/9th Generation Intel® Core™i3/ Pentium®/Celeron® Processor, Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP	8th/9th Generation Intel® Core™i3/ Pentium®/Celeron® Processor, Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP	8th/9th Generation Intel® Core™i3/ Pentium®/Celeron® Processor, Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP
Chipset	Intel® C246	Intel® C246	Intel® C246	Intel® C246
Form Factor	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)	microATX, 9.6" x 9.6" (24.38cm x 24.38cm)	microATX, 9.6" x 9.6" (24.38cm x 24.38cm)
Optimized Chassis	SC813MFTQC-R407CB SC514-R407C SC515-R407 1U Heatsink:SNK-P0046P	SC813MFTQC-R407CB SC514-R407C SC515-R407 1U Heatsink:SNK-P0046P	SC813MFTQC-350CB2 SC813MFTQC-R407CB SC51ppppp1 SC515-350 SC515-R407 SC514-R407C 1U Heatsink:SNK-P0046P SC825TQC-R740LPB 2U Heatsink:SNK-P0046A4	SC813MFTQC-350CB2 SC813MFTQC-R407CB SC512F-350B1 SC515-350 SC515-R407 SC514-R407C 1U Heatsink:SNK-P0046P SC825TQC-R740LPB 2U Heatsink:SNK-P0046A4
Memory Capacity & Slots*	Up to 128GB DDR4 ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots	Up to 128GB DDR4 ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots	Up to 128GB Unbuffered ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots	Up to 128GB Unbuffered ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x8 M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2280, 22110 M.2 Key: M-Key Double Height Connector	1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x8 M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2280, 22110 M.2 Key: M-Key Double Height Connector	1 PCI-E 3.0 x16 M.2 Interface: 1 SATA/PCI-E 3.0 x4 and 1 PCI-E 3.0 x4 M.2 Form Factor: 2280/22110 M.2 Key: M-Key Double Height Connector	1 PCI-E 3.0 x16 M.2 Interface: 1 SATA/PCI-E 3.0 x4 and 1 PCI-E 3.0 x4 M.2 Form Factor: 2280/22110 M.2 Key: M-Key Double Height Connector
Onboard RAID Controller	Intel® C246 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C246 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C246 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C246 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with Intel® Ethernet Controller I210	Quad LAN with Intel® Ethernet Controller I210	Dual LAN with Intel® Ethernet Controller I210-AT	8 LAN with Intel® Ethernet Controller I210-AT
Onboard VGA	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC
USB Ports	6x USB 2.0 ports (2 rear, 4 via headers); 2x USB 3.1 Gen2 ports (rear); 3x USB 3.1 Gen1 ports (1 Type-A, 2 via header)	6x USB 2.0 ports (2 rear, 4 via headers); 2x USB 3.1 Gen2 ports (rear); 3x USB 3.1 Gen1 ports (1 Type-A, 2 via header)	4 USB 2.0 ports (2 rear + 2 via headers) 5 USB 3.1 Gen1 ports(2 rears, 2 via headers, 1 Type A)	4 USB 2.0 ports (2 rear + 2 via headers) 5 USB 3.1 Gen1 ports(2 rears, 2 via headers, 1 Type A)
Other Onboard I/O Devices	TPM 2.0 Header 2 COM Ports (1 rear, 1 header)	TPM 2.0 Header 2 COM Ports (1 rear, 1 header)	TPM 2.0 Header 1 COM Port (1 header)	TPM 2.0 Header 1 COM Port (1 header)
Manageability	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog +12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, Chipset Voltage, Memory Voltages, Monitors CPU voltages, Supports system management utility, System level control, VBAT	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog +12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, Chipset Voltage, Memory Voltages, Monitors CPU voltages, Supports system management utility, System level control, VBAT	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog +12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, Chipset Voltage, Memory Voltages, Monitors CPU voltages, Supports system management utility, System level control, VBAT	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog +12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, Chipset Voltage, Memory Voltages, Monitors CPU voltages, Supports system management utility, System level control, VBAT
PC Health Monitoring				
Thermal Control				
Other Features	ACPI power management, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, Node Manager Support, UID, WOL	ACPI power management, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, Node Manager Support, UID, WOL	ACPI power management, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, Node Manager Support, UID, WOL	ACPI power management, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, Node Manager Support, UID, WOL
BIOS	UEFI 256Mb	UEFI 256Mb	UEFI 256Mb	UEFI 256Mb

*For detailed memory configurations please refer to Supermicro website.

** For integration into SuperServer® systems only, not available for sale as subsystems.

UP SERVERBOARDS

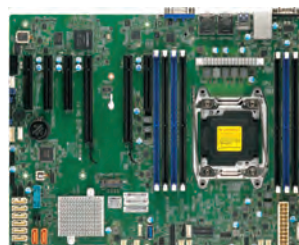


MODEL	X11SCA	X11SCA-F	X11SCA-W
Processor	8th/9th Generation Intel® Core™ i9/Core™ i7/Core™ i5/ Core™ i3/Pentium®/Celeron® Processor, Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP	8th/9th Generation Intel® Core™ i9/Core™ i7/Core™ i5/ Core™ i3/Pentium®/Celeron® Processor, Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP	8th/9th Generation Intel® Core™ i9/Core™ i7/Core™ i5/ Core™ i3/Pentium®/Celeron® Processor, Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP
Chipset	Intel® C246	Intel® C246	Intel® C246
Form Factor	ATX, 12" x 9.6" (30.48cm x 24.38cm)	ATX, 12" x 9.6" (30.48cm x 24.38cm)	ATX, 12" x 9.6" (30.48cm x 24.38cm)
Optimized Chassis	- SC732D4-500B - SC732D4-903B - SC732D3-1200B - SCG55A-753K - SCG55A-753B	- SC732D4-500B - SC732D4-903B - SC732D3-1200B - SCG55A-753K - SCG55A-753B	- SC732D4-500B - SC732D4-903B - SC732D3-1200B - SCG55A-753K - SCG55A-753B
Memory Capacity & Slots*	Up to 128GB Unbuffered ECC/non-ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots	Up to 128GB Unbuffered ECC/non-ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots	Up to 128GB Unbuffered ECC/non-ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x4, 1 PCI-E 3.0 x1, 2 PCI-Ex16 slots are running at NA/16, or 8/8 1 - 5V PCI 32bit M.2 Interface: 2 PCI-E 3.0 x4 M.2 Form Factor: 2242/2260/2280/22110 M.2 Key: M-Key M.2#1 are shared with PCI-Ex4 slot, M.2#2 is shared with U.2 U.2 Interface: 1 PCI-E 3.0 x4	1 - 5V PCI 32bit M.2 Interface: 2 PCI-E 3.0 x4 M.2 Form Factor: 2242/2260/2280/22110 M.2 Key: M-Key M.2#1 is shared with PCI-Ex4 slot, M.2#2 is shared with U.2 U.2 Interface: 1 PCI-E 3.0 x4	1 - 5V PCI 32bit M.2 Interface: 2 PCI-E 3.0 x4 M.2 Form Factor: 2242/2260/2280/22110 M.2 Key: M-Key M.2#1 are shared with PCI-Ex4 slot, M.2#2 is shared with U.2 U.2 Interface: 1 PCI-E 3.0 x4
Onboard RAID Controller	Intel® C246 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C246 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C246 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Single LAN with Intel® Ethernet Controller I210-AT Single LAN with Intel® PHY I219LM LAN controller Support vPro	Single LAN with Intel® Ethernet Controller I210-AT Shared with IPMI Single LAN with Intel® PHY I219LM LAN controller	Single LAN with Intel® Ethernet Controller I210-AT Single LAN with Intel® PHY I219LM LAN controller Support vPro Single LAN with Gigabit LAN WiFi + Bluetooth 5.0
Onboard VGA	1 HDMI port, 1 DVI - D port, 1 DP (DisplayPort) port, Intel UHD P630 graphic(For CPU Xeon E-21XXG/E-22XXG series only),	1 HDMI port, 1 DVI - D port, 1 DP (DisplayPort) port, 1 VGA port, Intel UHD P630 graphic(For Xeon E-21xxG/E-22xxG series only), ASPEED AST2500 BMC	1 HDMI port, 1 DVI - D port, 1 DP (DisplayPort) port, Intel UHD P630 graphic(For CPU Xeon E-21XXG/E-22XXG series only),
USB Ports	2 USB 2.0 ports (2 via headers) 4 USB 3.1 Gen1 ports (2 Rears Type A, 2 via headers) 4 USB 3.1 Gen2 ports (1 Rear Type A + 1 Rear Type C, 1 via header, 1 Type A) ALC 888S HD Audio	2 USB 2.0 ports (2 via headers) 4 USB 3.1 Gen1 ports (2 Rears Type A, 2 via headers) 4 USB 3.1 Gen2 ports (1 Rear Type A + 1 Rear Type C, 1 via header, 1 Type A) ALC 888S HD Audio	2 USB 2.0 ports (2 via headers) 4 USB 3.1 Gen1 ports (2 Rears Type A, 2 via headers) 4 USB 3.1 Gen2 ports (1 Rear Type A + 1 Rear Type C, 1 via header, 1 Type A)
Other Onboard I/O Devices	TPM 2.0 Header 1 COM Port (1 header)	TPM 2.0 Header 1 COM Port (1 header)	ALC 888S HD Audio TPM 2.0 Header 1 COM Port (1 header)
Manageability	AMT, SuperDoctor® 5, vPro, Watchdog	IPMI2.0, SSM, SUM, SuperDoctor® 5, Watchdog	AMT, SuperDoctor® 5, vPro, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, 5 -fan status, Chassis intrusion header, Chipset Voltage, Memory Voltages, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, 5 -fan status, Chassis intrusion header, Chipset Voltage, Memory Voltages, Monitors CPU voltages, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, 5 -fan status, Chassis intrusion header, Chipset Voltage, Memory Voltages, Monitors CPU voltages, VBAT
Thermal Control	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, RoHS, WOL	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, RoHS, WOL	8-pin 12v DC power connector, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, RoHS, WOL
Other Features			
BIOS	UEFI 128Mb	UEFI 128Mb	UEFI 128Mb

*For detailed memory configurations please refer to Supermicro website.

** For integration into SuperServer® systems only, not available for sale as subsystems.

UP SERVERBOARDS



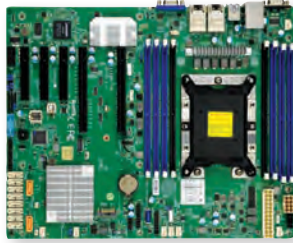
MODEL	X11SRM-F	X11SRM-VF	X11SRL-F	X11SRI-IF
Processor[†]	Intel® Xeon® W-2100 Processors, Intel® Xeon® W-2200 Processors Single Socket LGA-2066 (Socket R4) supported, CPU TDP supports Up to 165W TDP	Intel® Xeon® W-2100 Processors, Intel® Xeon® W-2200 Processors Single Socket LGA-2066 (Socket R4) supported, CPU TDP supports Up to 165W TDP	Intel® Xeon® W-2100 Processors, Intel® Xeon® W-2200 Processors Single Socket LGA-2066 (Socket R4) supported, CPU TDP supports Up to 165W TDP	Intel® Xeon® W-2100 Processors, Intel® Xeon® W-2200 Processors Single Socket LGA-2066 (Socket R4) supported, CPU TDP supports Up to 165W TDP
Chipset	Intel® C422	Intel® C422	Intel® C422	Intel® C422
Form Factor	microATX, 9.6" x 9.6" (24.38cm x 24.38cm)	microATX, 9.6" x 9.6" (24.38cm x 24.38cm)	ATX, 12" x 9.6" (30.48cm x 24.38cm)	Mini-ITX, 6.75" x 6.75" (17.15cm x 17.15cm)
Optimized Chassis	● SC813MFTQC-R407CB ● SC813MFAC2-R606CB ● SC813MFAC2-341CB 1U Heatsink: SNK-P0057PS	● SC813MFTQC-R407CB ● SC813MFAC2-R606CB ● SC813MFAC2-341CB 1U Heatsink: SNK-P0057PS	● SC825TQC	
Memory Capacity & Slots*	Up to 256GB ECC RDIMM, DDR4-2933MHz; Up to 512GB ECC LRDIMM, DDR4-2933MHz, in 4 DIMM slots	Up to 256GB ECC RDIMM, DDR4-2933MHz; Up to 512GB ECC LRDIMM, DDR4-2933MHz, in 4 DIMM slots	Up to 512GB ECC RDIMM, DDR4-2933MHz; Up to 1TB Registered ECC LRDIMM, DDR4-2933MHz, in 8 DIMM slots	Up to 256GB ECC RDIMM, DDR4-2933MHz; Up to 512GB ECC LRDIMM, DDR4-2933MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16, 2 PCI-E 3.0 x8 M.2 Interface: 1 PCI-E 3.0 x4 M.2 Form Factor: 2280 M.2 Key: M-Key Double Height Connector	1 PCI-E 3.0 x16, 2 PCI-E 3.0 x8, 4 PCI-E 3.0 NVMe x4 Internal Port(s) M.2 Interface: 1 PCI-E 3.0 x4 M.2 Form Factor: 2280 M.2 Key: M-Key Double Height Connector	3 PCI-E 3.0 x8, 1 PCI-E 3.0 x16, 1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x4 (in x8 slot) M.2 Interface: 1 PCI-E 3.0 x4 M.2 Form Factor: 2280/22110 M.2 Key: M-Key Double Height Connector	1 PCI-E 3.0 x16, 2 PCI-E 3.0 NVMe x4 Internal Port(s)
Onboard RAID Controller	Intel® C422 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C422 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C422 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C422 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with Intel® i210 Gigabit Ethernet Controller	Dual LAN with Intel® i210 Gigabit Ethernet Controller	Dual LAN with Intel® i210 Gigabit Ethernet Controller	Dual LAN with Intel® i210 Gigabit Ethernet Controller
Onboard VGA	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC
USB Ports	6 USB 2.0 ports (2 rear + 4 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)	6 USB 2.0 ports (2 rear + 4 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)	6 USB 2.0 ports (2 rear + 4 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)	2 USB 3.2 Gen1 ports (2 rear)
Other Onboard I/O Devices	TPM Header 2 COM Ports (1 rear, 1 header)	TPM Header 2 COM Ports (1 rear, 1 header)	TPM Header 2 COM Ports (1 rear, 1 header)	TPM Header 1 COM Port (1 header)
Manageability	IPMI2.0, KVM with dedicated LAN, SUM, SuperDoctor® 5, Watchdog	IPMI2.0, KVM with dedicated LAN, SUM, SuperDoctor® 5, Watchdog	IPMI2.0, KVM with dedicated LAN, SUM, SuperDoctor® 5, Watchdog	IPMI2.0, KVM with dedicated LAN, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 6 -fan status, Chassis intrusion header, HT, Monitors CPU voltages, System temperature, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 6 -fan status, Chassis intrusion header, HT, Monitors CPU voltages, System temperature, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 7-fan status, Chassis intrusion header, HT, Monitors CPU voltages, System temperature, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, 3 -fan status, 3.3V standby, Chassis intrusion header, HT, Monitors CPU voltages, System temperature, VBAT
Thermal Control				
Other Features	ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, RoHS, UID	ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, RoHS, UID	ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, RoHS, UID	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, RoHS, UID
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

[†] Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.



High-Performance
VROC Support
Up to 2TB 3DS ECC DDR4-2933 MHz
Rich I/O Expansion and 10GbE



UP SERVERBOARDS

Embedded Ready
VROC Support
Up to 1.5TB 3DS ECC DDR4-2933MHz
2x 1GbE(-F), 2x 10GbE (-TF), 2x 10G SFP+ (-TPF)



Telecom/Storage
Up to 1.5TB 3DS ECC DDR4-2933MHz
1U/3 AOC, 10GbE



MODEL	X11SPi-TF	X11SPM-F X11SPM-TF X11SPM-TPF	X11SPW-TF X11SPW-CTF
Processor	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Single Socket P (LGA 3647) supported, CPU TDP support up to 205W TDP. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Single Socket P (LGA 3647) supported, CPU TDP support up to 165W TDP. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R).	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors, Single Socket LGA-3647 (Socket P) supported, CPU TDP supports Up to 205W TDP. 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Single Socket P (LGA 3647) supported, CPU TDP support up to 205W TDP. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R).
Chipset	Intel® C622	-F: Intel® C621 -TF/-TPF: Intel® C622	Intel® C622
Form Factor	ATX, 12" x 9.6" (30.48cm x 24.38cm)	microATX, 9.6" x 9.6" (24.38cm x 24.38cm)	Proprietary WIO, 8" x 13" (20.32cm x 33.02cm)
Optimized Chassis	- SC813MFTQC-R407CB - SC813MFTQC-350CB - SC113MFAC2-R606CB - SC113MFAC2-341CB - SC512F-350B 1U Heatsink: SNK-P0067PS	- SC813MFTQC-R407CB - SC813MFTQC-350CB - SC113MFAC2-R606CB - SC113MFAC2-341CB - SC512F-350B 1U Heatsink: SNK-P0067PS	- SC815TQC-R740LPB - SC213LT-600LPB - SC823TQ-653B - SC833TQ-653B 2U Heatsink: SNK-P0068APS4
Memory Capacity & Slots*	Up to 2TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-2933MHz, in 8 DIMM slots	Up to 1.5TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 1.5TB 3DS ECC LRDIMM, DDR4-2933MHz, in 6 DIMM slots; Up to 1TB Intel Optane DC Persistent Memory in memory mode (Cascade Lake Only)*†	Up to 1.5TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 1.5TB 3DS ECC LRDIMM, DDR4-2933MHz, in 6 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16, 1 PCI-E 3.0 x16 (x16 or x8), 1 PCI-E 3.0 x8 (x8 or x4), 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot) M.2 Interface: PCI-E 3.0 x4 and SATA M.2 Form Factor: 2280, 22110 M.2 Key: M-Key Double Height Connector	2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8 M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2242, 2280 M.2 Key: M-Key Double Height Connector	1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x32 Left Riser Slot M.2 Interface: PCI-E 3.0 x4 and SATA M.2 Form Factor: 2280, 22110 M.2 Key: M-Key Double Height Connector
Onboard RAID Controller	Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	-F: Intel® C621 controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10 -TF/-TPF: Intel® C622 controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10	-TF: Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10 -CTF: Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10 Broadcom® 3008 SW controller for 4 SAS3 (12Gbps) ports; RAID 0,1,10
Onboard LAN	Dual LAN with 10GBase-T with Intel® X722 + X557	-F: Dual LAN with 1GbE with Intel® X722 + Marvell 88E1512 -TF: Dual LAN with 10GBase-T with Intel® X722 + X557 -TPF: Dual LAN with 10G SFP+ with Intel® X722 + Inphi CS4227	Dual LAN with 10GBase-T with Intel® X722 + X557
Onboard VGA	1 VGA port, Aspeed AST2500 BMC	1 VGA port, Aspeed AST2500 BMC	1 VGA port, ASPEED AST2500 BMC
USB Ports	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	7 USB 2.0 ports (2 rear + 5 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A)
Other Onboard I/O Devices	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)
Manageability	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5, Watchdog +1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 7-fan status, Chassis intrusion header, HT, Monitors CPU voltages, Supports system management utility, VBAT	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5, Watchdog +1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 8-fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, VBAT	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5, Watchdog +1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 7-fan status, Chassis intrusion header, HT, Monitors CPU voltages, Supports system management utility, VBAT
PC Health Monitoring	7x 4-pin fan headers (up to 7 fans), Fan speed control, Overheat LED indication, PWM fan speed control, System level control	8x 4-pin fan headers (up to 8 fans), Fan speed control, Overheat LED indication, PWM fan speed control, System level control	
Other Features	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, UID, WOL	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, UID, WOL	ACPI power management, Control of power-on for recovery from AC power loss, RoHS, UID, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

UP SERVERBOARDS

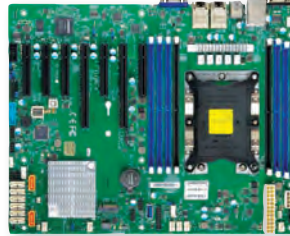


High Performance VROC Support
Up to 2TB 3DS ECC DDR4-2933 MHz
NVMe, SAS3 and 10G Base-T

High Performance
Up to 2TB 3DS ECC DDR4-2933 MHz
NVMe, SAS3 and 10G SFP+

VROC and I/O Optimized
Up to 2TB 3DS ECC DDR4-2933 MHz
7 PCI-E 3.0 slots

GPU Optimized
Up to 1.5TB 3DS ECC DDR4-2933MHz
1U/2 GPU or 1/U5 AOC



MODEL	X11SPH-nCTF	X11SPH-nCTPF	X11SPL-F	X11SPG-TF**
Processor	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Single Socket P (LGA 3647) supported, CPU TDP support up to 205W TDP. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R). Intel® C622	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Single Socket P (LGA 3647) supported, CPU TDP support up to 205W TDP. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R). Intel® C622	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Single Socket P (LGA 3647) supported, CPU TDP support up to 165W TDP. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R). Intel® C621	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors. Single Socket P (LGA 3647) supported, CPU TDP support up to 205W TDP. Note: BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R). Intel® C621
Chipset	Intel® C622	Intel® C622	Intel® C621	Intel® C621
Form Factor	ATX, 12" x 9.6" (30.48cm x 24.38cm)	ATX, 12" x 9.6" (30.48cm x 24.38cm)	ATX, 12" x 9.6" (30.48cm x 24.38cm)	Proprietary, 7.71" x 16.64" (19.58cm x 42.27cm)
Optimized Chassis	- SC826BE1C-R802LPB - SC216BE1C4-R1K23LPB - SC836BE1C-R1K23B 2U Heatsink: SNK-P0068APS4 - SC846BE1C-R1K23B - SC847BE1C4-R1K23LPB 2U Heatsink: SNK-P0068APS4	- SC826BE1C-R802LPB - SC216BE1C4-R1K23LPB - SC836BE1C-R1K23B 2U Heatsink: SNK-P0068APS4 - SC846BE1C-R1K23B - SC847BE1C4-R1K23LPB 2U Heatsink: SNK-P0068APS4	- SC813MFTQC-R407CB - SC813MFTQC-350CB - SC113MFAC2-R606CB - SC113MFAC2-341CB - SC512F-350B 1U Heatsink: SNK-P0067PS - SC825TQC-R740LPB - SC213LT-600LPB - SC823TQ-653B - SC833T-653B 2U Heatsink: SNK-P0068APS4	- SC118G-1K43B2 - SC818G-1K43B2 1U Heatsink: SNK-P0067PS
Memory Capacity & Slots*	Up to 2TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-2933MHz, in 8 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-2933MHz, in 8 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-2933MHz, in 8 DIMM slots; Up to 1TB Intel Optane DC Persistent Memory in memory mode (Cascade Lake Only) ^{††}	Up to 1.5TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 1.5TB 3DS ECC LRDIMM, DDR4-2933MHz, in 6 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 (x16 or x8), 1 PCI-E 3.0 x8 (x0 or x8), 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot), 2 PCI-E 3.0 NVMe x4 M.2 Interface: PCI-E 3.0 x4 and SATA M.2 Form Factor: 2280 M.2 Key: M-Key Double Height Connector Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10 Broadcom® 3008 SW controller for 8 SAS3 (12Gbps) ports; RAID 0,1,10 Dual LAN with 10GBase-T with Intel® X722 + X557	1 PCI-E 3.0 x16 (x16 or x8), 1 PCI-E 3.0 x8 (x0 or x8), 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot), 2 PCI-E 3.0 NVMe x4 M.2 Interface: PCI-E 3.0 x4 and SATA M.2 Form Factor: 2280 M.2 Key: M-Key Double Height Connector Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10 Broadcom® 3008 SW controller for 8 SAS3 (12Gbps) ports; RAID 0,1,10 Dual LAN with 10G SFP+ with Intel® X722 + Inphi CS4227	2 PCI-E 3.0 x8 (in x16 slot), 4 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot) M.2 Interface: PCI-E 3.0 x4 and SATA M.2 Form Factor: 2280, 22110 M.2 Key: M-Key Double Height Connector Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	1 PCI-E 3.0 x16 Center Right Hand Slot, 1 PCI-E 3.0 x16 Left Riser Slot, 1 PCI-E 3.0 x16 Right Riser Slot M.2 Interface: PCI-E 3.0 x4 and SATA M.2 Form Factor: 2280 M.2 Key: M-Key Double Height Connector Intel® C621 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard RAID Controller	Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10 Broadcom® 3008 SW controller for 8 SAS3 (12Gbps) ports; RAID 0,1,10	Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10 Broadcom® 3008 SW controller for 8 SAS3 (12Gbps) ports; RAID 0,1,10	Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with 10GBase-T with Intel® X722 + X557	Dual LAN with 10G SFP+ with Intel® X722 + Inphi CS4227	Dual LAN with 1GbE with Intel® I210	Dual LAN with 10GBase-T with Intel® X550
Onboard VGA	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC	1 VGA port, ASPEED AST2500 BMC
USB Ports	8 USB 2.0 ports (2 rear + 6 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A) 2 ports SuperDOM	8 USB 2.0 ports (2 rear + 6 via headers) 5 USB 3.2 Gen1 ports (2 rear + 2 via headers + 1 Type A) 2 ports SuperDOM	8 USB 2.0 ports (2 rear + 6 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A) 2 ports SuperDOM	4 USB 2.0 ports (2 rear + 2 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A) 2 ports SuperDOM
Other Onboard I/O Devices	TPM Header 2 COM Ports (1 rear, 1 header)	TPM Header 2 COM Ports (1 rear, 1 header)	TPM Header 2 COM Ports (1 rear, 1 header)	TPM Header 1 COM Port (1 header)
Manageability	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5, Watchdog +1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 8 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, VBAT	N/A	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5, Watchdog +1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 7-fan status, Chassis intrusion header, HT, Monitors CPU voltages, Supports system management utility, VBAT	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5, Watchdog +1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 8 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, VBAT
PC Health Monitoring		N/A		
Thermal Control			7x 4-pin fan headers (up to 7 fans), Fan speed control, Overheat LED indication, PWM fan speed control, System level control	8x 4-pin fan headers (up to 8 fans), Fan speed control, Overheat LED indication, PWM fan speed control, System level control
Other Features	ACPI power management, Control of power-on for recovery from AC power loss, RoHS, UID, WOL	N/A	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, UID, WOL AMI UEFI	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, UID, WOL AMI UEFI
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

* For detailed memory configurations please refer to Supermicro website.

† 2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro.

†† For 2nd Generation Intel® Xeon® Scalable processors (Cascade Lake-SP Refresh / Cascade Lake-SP) only. Contact your Supermicro sales rep for more info.

UP SERVERBOARDS

Intel® QSV & VHD with GT4e



(Micro-ATX, 9.6"W x 9.6"H)

Intel® QSV & VHD with GT4e



(Micro-ATX, 9.6"W x 9.6"H)

Intel® QSV & VHD with GT4e



(Micro-ATX, 9.6"W x 9.6"H)

Intel® QSV & VHD with GT4e



(Micro-ATX, 9.6"W x 9.6"H)

MODEL	X11SSH-GTF-1585	X11SSH-GTF-1585L	X11SSH-GF-1585	X11SSH-GF-1585L
Processor	Intel® Xeon® processor E3-1585 v5. Single Socket FCBGA1440 supported, CPU TDP support up to 65W TDP	Intel® Xeon® processor E3-1585L v5. Single Socket FCBGA1440 supported, CPU TDP support up to 45W TDP	Intel® Xeon® processor E3-1585 v5. Single Socket FCBGA1440 supported, CPU TDP support up to 65W TDP	Intel® Xeon® processor E3-1585L v5. Single Socket FCBGA1440 supported, CPU TDP support up to 45W TDP
Chipset	Intel® C236	Intel® C236	Intel® C236	Intel® C236
Form Factor	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)
Optimized Chassis	- SC813MFTQC-350CB - SC813MFTQC-R407CB - SC113MFAC2-605CB - SC113MFAC2-R606CB - SC512F-350B - SC813MTQ-350CB	- SC813MFTQC-350CB - SC813MFTQC-R407CB - SC113MFAC2-605CB - SC113MFAC2-R606CB - SC512F-350B - SC813MTQ-350CB	- SC813MFTQC-350CB - SC813MFTQC-R407CB - SC113MFAC2-605CB - SC113MFAC2-R606CB - SC512F-350B - SC813MTQ-350CB	- SC813MFTQC-350CB - SC813MFTQC-R407CB - SC113MFAC2-605CB - SC113MFAC2-R606CB - SC512F-350B - SC813MTQ-350CB
Memory Capacity & Slots*	64GB Unbuffered ECC SO-DIMM, DDR4-2133 MHz, in 4 DIMM slots	64GB Unbuffered ECC SO-DIMM, DDR4-2133 MHz, in 4 DIMM slots	64GB Unbuffered ECC SO-DIMM, DDR4-2133 MHz, in 4 DIMM slots	64GB Unbuffered ECC SO-DIMM, DDR4-2133 MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot) M.2 Interface: PCI-E 3.0 x4 and SATA M.2 Form Factor: 2242, 2280, 22110 M.2 Key: M-Key Double Height Connector	1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot) M.2 Interface: PCI-E 3.0 x4 and SATA M.2 Form Factor: 2242, 2280, 22110 M.2 Key: M-Key Double Height Connector	1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot) M.2 Interface: PCI-E 3.0 x4 and SATA M.2 Form Factor: 2242, 2280, 22110 M.2 Key: M-Key Double Height Connector	1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot) M.2 Interface: PCI-E 3.0 x4 and SATA M.2 Form Factor: 2242, 2280, 22110 M.2 Key: M-Key Double Height Connector
Onboard RAID Controller	Intel® C236 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C236 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C236 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C236 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with Intel® X550 10GBase-T Ethernet Controller	Dual LAN with Intel® X550 10GBase-T Ethernet Controller	Dual LAN with Intel® i350 Gigabit Ethernet Controller	Dual LAN with Intel® i350 Gigabit Ethernet Controller
Onboard VGA	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC
USB Ports	8 USB 2.0 ports (2 rear + 6 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	8 USB 2.0 ports (2 rear + 6 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	8 USB 2.0 ports (2 rear + 6 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	8 USB 2.0 ports (2 rear + 6 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)
Other Onboard I/O Devices	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM 1.2 Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)
Manageability	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+12V, +3.3V, +5V, +5V standby, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+12V, +3.3V, +5V, +5V standby, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+12V, +3.3V, +5V, +5V standby, Monitors CPU voltages, Supports system management utility, System level control, VBAT
Thermal Control	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors
Other Features	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, VHD, WOL	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, VHD, WOL	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, VHD, WOL	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, VHD, WOL
BIOS	128Mb SPI Flash EEPROM with AMI BIOS	128Mb SPI Flash EEPROM with AMI BIOS	128Mb SPI Flash EEPROM with AMI BIOS	128Mb SPI Flash EEPROM with AMI BIOS

* For detailed memory configurations please refer to Supermicro website.

UP SERVERBOARDS

Intel® QSV & VHD with GT2



Intel® QSV & VHD with GT2



WIO



MODEL	X11SSW-TF	X11SSW-4TF	X11SSW-F
Processor	Intel® 7th/6th Generation Core i3 series, Intel® Celeron®, Intel® Pentium®, Intel® Xeon® processor E3-1200 v6/v5. Single Socket H4 (LGA 1151) supported, CPU TDP support up to 80W TDP	Intel® 7th/6th Generation Core i3 series, Intel® Celeron®, Intel® Pentium®, Intel® Xeon® processor E3-1200 v6/v5. Single Socket H4 (LGA 1151) supported, CPU TDP support up to 80W TDP	Intel® 7th/6th Generation Core i3 series, Intel® Celeron®, Intel® Pentium®, Intel® Xeon® processor E3-1200 v6/v5. Single Socket H4 (LGA 1151) supported, CPU TDP support up to 80W TDP
Chipset	Intel® C236 ● SC815TQC-R504WB ● SC815TQC-R500WB ● SC815TQC-605WB ● SC116AC2-R706WB ● SC113TQ-600WB ● SC514-R400W ● SC514-505 1 U Heatsink: SNK-P0046P	Intel® C236 ● SC815TQC-R504WB ● SC815TQC-R500WB ● SC815TQC-605WB ● SC116AC2-R706WB ● SC113TQ-600WB ● SC514-R400W ● SC514-505 1 U Heatsink: SNK-P0046P	Intel® C236 ● SC815TQC-R504WB ● SC815TQC-R500WB ● SC116AC2-R706WB ● SC514-R400W ● SC514-505 1 U Heatsink: SNK-P0046P
Form Factor	Proprietary, 8" x 13" (20.32cm x 33.02cm)	Proprietary, 8" x 13" (20.32cm x 33.02cm)	Proprietary, 8" x 13" (20.32cm x 33.02cm)
Memory Capacity & Slots*	64GB Unbuffered ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	64GB Unbuffered ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	64GB Unbuffered ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 Left Riser Slot M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2260, 2280, 22110 M.2 Key: M-Key Double Height Connector	1 PCI-E 3.0 x16 Left Riser Slot M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2260, 2280, 22110 M.2 Key: M-Key Double Height Connector	1 PCI-E 3.0 x16 Left Riser Slot, 1 PCI-E 3.0 x4 (in x16 slot) M.2 Interface: PCI-E 3.0 x4 and SATA M.2 Form Factor: 2260, 2280, 22110 M.2 Key: M-Key Double Height Connector
Onboard RAID Controller	Intel® C236 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C236 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C236 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with Intel® X540 10GBase-T Ethernet Controller	Quad LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with Intel® Ethernet Controller I210-AT
Onboard VGA	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC
USB Ports	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)
Other Onboard I/O Devices	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)
Manageability	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT
Thermal Control	6x 4-pin fan headers (up to 6 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors	6x 4-pin fan headers (up to 6 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors	6x 4-pin fan headers (up to 6 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors
Other Features	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, VHD, WOL	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, VHD, WOL	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, WOL
BIOS	128Mb SPI Flash EEPROM with AMI BIOS	128Mb SPI Flash EEPROM with AMI BIOS	128Mb SPI Flash EEPROM with AMI BIOS

† Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

UP SERVERBOARDS



Entry Server
Cost Optimized



(Micro-ATX, 9.6"W x 9.6"H)

Entry Server
Cost Optimized



(Micro-ATX, 9.6"W x 9.6"H)

Storage Optimized
w/ 8 SAS3 Ports



(Micro-ATX, 9.6"W x 9.6"H)

Onboard 2x NVMe Ports



(Micro-ATX, 9.6"W x 9.6"H)

MODEL	X11SSL	X11SSL-F	X11SSL-CF	X11SSL-nF
Processor	Intel® 7th/6th Generation Core i3 series, Intel® Celeron®, Intel® Pentium®, Intel® Xeon® processor E3-1200 v6/v5. Single Socket H4 (LGA 1151) supported, CPU TDP support up to 80W TDP	Intel® 7th/6th Generation Core i3 series, Intel® Celeron®, Intel® Pentium®, Intel® Xeon® processor E3-1200 v6/v5. Single Socket H4 (LGA 1151) supported, CPU TDP support up to 80W TDP	Intel® 7th/6th Generation Core i3 series, Intel® Celeron®, Intel® Pentium®, Intel® Xeon® processor E3-1200 v6/v5. Single Socket H4 (LGA 1151) supported, CPU TDP support up to 80W TDP	Intel® 7th/6th Generation Core i3 series, Intel® Celeron®, Intel® Pentium®, Intel® Xeon® processor E3-1200 v6/v5. Single Socket H4 (LGA 1151) supported, CPU TDP support up to 80W TDP
Chipset	Intel® C232	Intel® C232	Intel® C232	Intel® C232
Form Factor	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)
Memory Capacity & Slots*	64GB Unbuffered ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	64GB Unbuffered ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	64GB Unbuffered ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	64GB Unbuffered ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot)	1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot)	1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x4 (in x8 slot), 1 PCI-E 3.0 x1	1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x4 (in x8 slot), 1 PCI-E 3.0 x1, 2 PCI-E 3.0 NVMe x4 External Ports
Onboard RAID Controller	Intel® C232 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C232 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C232 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C232 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with Intel® Ethernet Controller I210-AT	Dual LAN with Intel® Ethernet Controller I210-AT	Dual LAN with Intel® Ethernet Controller I210-AT	Dual LAN with Intel® Ethernet Controller I210-AT
Onboard VGA	1 VGA port, Aspeed AST1400	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC
USB Ports	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)
Other Onboard I/O Devices	2 ports SuperDOM TPM Header 1 COM Port (1 rear)	2 ports SuperDOM TPM Header 1 COM Port (1 rear)	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)
Manageability	NMI, SSM, SuperDoctor® 5, Watchdog	IPMI2.0, NMI, SSM, SUM, SuperDoctor® 5, Watchdog	IPMI2.0, NMI, SSM, SUM, SuperDoctor® 5, Watchdog	IPMI2.0, NMI, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT
Thermal Control	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors
Other Features	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, WOL	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, WOL	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, WOL	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, WOL
BIOS	128Mb SPI Flash EEPROM with AMI BIOS	128Mb SPI Flash EEPROM with AMI BIOS	128Mb SPI Flash EEPROM with AMI BIOS	128Mb SPI Flash EEPROM with AMI BIOS

† Supermicro chassis required for optimal functionality and performance.

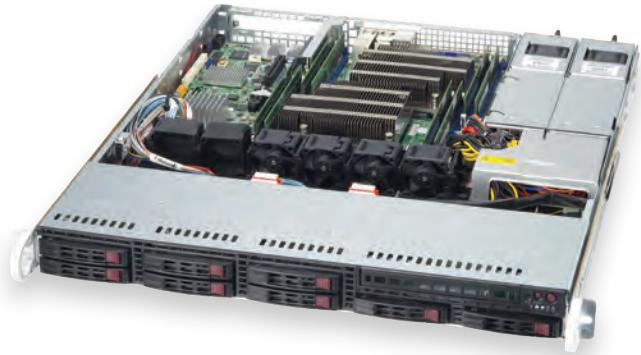
* For detailed memory configurations please refer to Supermicro website.

SC113MFAC2-R606CB

SC113MFAC2-341CB

1U 19.98" Depth Chassis

- SAS3 12Gb/s Technology
- Hybrid backplane design for best supportability. Supports up to 8 port SAS3 12Gb/s or 6 port SAS3 12Gb/s and 2 port NVMe (determined by system and cable configuration)
- 8 hot-swap 2.5" drives bays
- Motherboard size support up to ATX 12"x10" MB
- 600W Redundant **Platinum Level** Power Supplies; or 340W single
- Optimize cooling with 4 40x28mm (22.5K RPM) PWM fans (optional upgrade up to 6 PWM fans)



SC823TQ-653LPB

High Efficiency Power, Cost Effective 2U Chassis

- 650W **Gold Level** high-efficiency power supply
- 6x 3.5" hot-swap SAS/SATA drive bays
- 1x 5.25" peripheral drive bay
- 1x slim DVD-ROM drive (optional)
- 4x 80mm 6300 RPM Fans
- 7x low-profile, full-length I/O expansion slots
- Power switch & 6 LED indicators



Chassis \ MB	X11SSL	X11SSL-F	X11SSL-CF	X11SSL-nF
1U	● SC813MFTQC-505CB ● SC813MFTQ-R400CB ● SC813MTQ-350CB ● SC811TQ-441B ● SC113MFAC2-341CB ● SC113MFAC2-R606CB ● SC512L-200B ● SC512F-350B ● SC510-203B 1U Heatsink: SNK-P0046P	● SC813MFTQC-505CB ● SC813MFTQ-R400CB ● SC813MTQ-350CB ● SC811TQ-441B ● SC113MFAC2-341CB ● SC113MFAC2-R606CB ● SC512L-200B ● SC512F-350B ● SC510-203B 1U Heatsink: SNK-P0046P	● SC813MFTQC-505CB ● SC813MFTQ-R400CB ● SC813MTQ-350CB ● SC113MFAC2-341CB ● SC113MFAC2-R606CB ● SC512F-350B 1U Heatsink: SNK-P0046P	● SC813MFTQC-505CB ● SC813MFTQ-R400CB ● SC813MTQ-350CB ● SC113MFAC2-341CB ● SC113MFAC2-R606CB ● SC512F-350B 1U Heatsink: SNK-P0046P
2U	● SC825TQ-R720LPB ● SC823TQ-653LPB ● SC213LT-600LPB 2U Heatsink: SNK-P0046A4	● SC825TQ-R720LPB ● SC823TQ-653LPB ● SC213LT-600LPB 2U Heatsink: SNK-P0046A4	● SC825TQ-R720LPB ● SC823TQ-653LPB ● SC213LT-600LPB 2U Heatsink: SNK-P0046A4	● SC825TQ-R720LPB ● SC823TQ-653LPB ● SC213LT-600LPB 2U Heatsink: SNK-P0046A4
3U/ Mid-Tower	● SC833T-653B ● SC732I-500B ● SC731I-300B 2U Heatsink: SNK-P0046A4	● SC833T-653B ● SC732I-500B ● SC731I-300B 2U Heatsink: SNK-P0046A4	● SC833T-653B ● SC731i-300B ● SC732I-500B 2U Heatsink: SNK-P0046A4	● SC833T-653B ● SC731i-300B ● SC732I-500B 2U Heatsink: SNK-P0046A4
4U/ Tower	SC842TQC-668B SC842i-500B 2U Heatsink: SNK-P0046A4	SC842TQC-668B SC842i-500B 2U Heatsink: SNK-P0046A4	SC842TQC-668B SC842i-500B 2U Heatsink: SNK-P0046A4	SC842TQC-668B SC842i-500B 2U Heatsink: SNK-P0046A4

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 family.

● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

UP SERVERBOARDS



SAS3,
Dual 10GBase-T



(Micro-ATX, 9.6"W x 9.6"H)



Storage Optimized,
Dual 10GBase-T



(Micro-ATX, 9.6"W x 9.6"H)



Datacenter Optimized,
QSV/VHD



(Micro-ATX, 9.6"W x 9.6"H)



Datacenter Optimized,
Quad GbE



(Micro-ATX, 9.6"W x 9.6"H)

MODEL	X11SSH-CTF	X11SSH-TF	X11SSH-F	X11SSH-LN4F
Processor	Intel® 7th/6th Generation Core i3 series, Intel® Celeron®, Intel® Pentium®, Intel® Xeon® processor E3-1200 v6/v5. Single Socket H4 (LGA 1151) supported, CPU TDP support up to 80W TDP	Intel® 7th/6th Generation Core i3 series, Intel® Celeron®, Intel® Pentium®, Intel® Xeon® processor E3-1200 v6/v5. Single Socket H4 (LGA 1151) supported, CPU TDP support up to 80W TDP	Intel® 7th/6th Generation Core i3 series, Intel® Celeron®, Intel® Pentium®, Intel® Xeon® processor E3-1200 v6/v5. Single Socket H4 (LGA 1151) supported, CPU TDP support up to 80W TDP	Intel® 7th/6th Generation Core i3 series, Intel® Celeron®, Intel® Pentium®, Intel® Xeon® processor E3-1200 v6/v5. Single Socket H4 (LGA 1151) supported, CPU TDP support up to 80W TDP
Chipset	Intel® C236	Intel® C236	Intel® C236	Intel® C236
Form Factor	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)
Memory Capacity & Slots*	64GB Unbuffered ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	64GB Unbuffered ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	64GB Unbuffered ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	64GB Unbuffered ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x8, 1 PCI-E 3.0 x2 (in x4 slot) M.2 Interface: SATA and PCI-E 3.0 x4 M.2 Form Factor: 2260 M.2 Key: M-Key Double Height Connector	1 PCI-E 3.0 x8, 1 PCI-E 3.0 x2 (in x4 slot) M.2 Interface: SATA and PCI-E 3.0 x4 M.2 Form Factor: 2260 M.2 Key: M-Key Double Height Connector	1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot) M.2 Interface: PCI-E 3.0 x2 M.2 Form Factor: 2280 M.2 Key: M-Key Double Height Connector	1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot) M.2 Interface: PCI-E 3.0 x2 M.2 Form Factor: 2280 M.2 Key: M-Key Double Height Connector
Onboard RAID Controller	Intel® C236 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C236 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C236 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C236 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with Intel® X550 10GBase-T Ethernet Controller	Dual LAN with Intel® X550 10GBase-T Ethernet Controller	Dual LAN with Intel® Ethernet Controller I210-AT	Quad LAN with Intel® Ethernet Controller I210-AT
Onboard VGA	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC
USB Ports	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)
Other Onboard I/O Devices	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)
Manageability	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT
Thermal Control	6x 4-pin fan headers (up to 6 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors	6x 4-pin fan headers (up to 6 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors
Other Features	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, WOL	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, WOL	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, VHD, WOL	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, VHD, WOL
BIOS	128Mb SPI Flash EEPROM with AMI BIOS	128Mb SPI Flash EEPROM with AMI BIOS	128Mb SPI Flash EEPROM with AMI BIOS	128Mb SPI Flash EEPROM with AMI BIOS

* Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

Optimized Chassis and Accessories

SC813MFTQC-505CB

1U Short-Depth Rackmount Chassis

- SAS3 12Gb/s Technology
- 500W **Platinum Level** (94%+) High-efficiency Power Supply
- 4x 3.5" Hot-swap SAS/SATA Drive Bays
- 1x USB/COM Port tray in Slim DVD bay (optional)
- 4x 4cm high performance cooling fans
- 1x Full-height, Full-length I/O Expansion Slot



SC213LT-600LPB

Versatile, Cost-effective Server Chassis

- 600W **Platinum Level** Digital Switching high-efficiency power supplies
- 7 low-profile
- Mini-i-Pass connectivity; JBOD or headunit
- 8x 2.5" Hot-swap SAS/SATA HD Bays
- 3x 80mm high-performance, high-quality PWM fans
- Adjustable Air Shroud to Fit various Platforms
- Power Switch & 6x LED Indicators



Chassis MB	X11SSH-CTF	X11SSH-TF	X11SSH-F	X11SSH-LN4F
1U	● SC813MFTQC-505CB ● SC813MFTQ-R400CB ● SC813MFTQC-350CB ● SC813MTQ-350CB ● SC113MFAC2-341CB ● SC113MFAC2-R606CB ● SC512F-350B 1U Heatsink: SNK-P0046P	● SC813MFTQC-505CB ● SC813MFTQ-R400CB ● SC813MFTQC-350CB ● SC813MTQ-350CB ● SC113MFAC2-341CB ● SC113MFAC2-R606CB ● SC512F-350B 1U Heatsink: SNK-P0046P	● SC813MFTQC-505CB ● SC813MFTQ-R400CB ● SC813MFTQC-350CB ● SC813MTQ-350CB ● SC113MFAC2-R606CB ● SC113MFAC2-341CB ● SC512F-350B 1U Heatsink: SNK-P0046P	● SC813MFTQC-505CB ● SC813MFTQ-R400CB ● SC813MFTQC-350CB ● SC813MTQ-350CB ● SC113MFAC2-R606CB ● SC113MFAC2-341CB ● SC512F-350B 1U Heatsink: SNK-P0046P
2U	● SC825TQ-R720LPB ● SC823TQ-653LPB ● SC213LT-600LPB 2U Heatsink: SNK-P0046A4	● SC825TQ-R720LPB ● SC823TQ-653LPB ● SC213LT-600LPB 2U Heatsink: SNK-P0046A4	● SC826TQ-R500LPB ● SC825TQ-R720LPB ● SC823TQ-653LPB ● SC213LT-600LPB 2U Heatsink: SNK-P0046A4	● SC826TQ-R500LPB ● SC825TQ-R720LPB ● SC823TQ-653LPB ● SC213LT-600LPB 2U Heatsink: SNK-P0046A4
3U/ Mid-Tower	● SC833T-653B ● SC731i-300B ● SC732i-500B 2U Heatsink: SNK-P0046A4	● SC833T-653B ● SC731i-300B ● SC732i-500B 2U Heatsink: SNK-P0046A4	● SC833T-653B ● SC731i-300B ● SC732i-500B 2U Heatsink: SNK-P0046A4	● SC833T-653B ● SC731i-300B ● SC732i-500B 2U Heatsink: SNK-P0046A4
4U/ Tower	SC842TQC-668B SC842i-500B 2U Heatsink: SNK-P0046A4	SC842TQC-668B SC842i-500B 2U Heatsink: SNK-P0046A4	SC842TQC-668B SC842i-500B 2U Heatsink: SNK-P0046A4	SC842TQC-668B SC842i-500B 2U Heatsink: SNK-P0046A4

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 family.

● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

UP SERVERBOARDS

Cost/Performance
Optimized



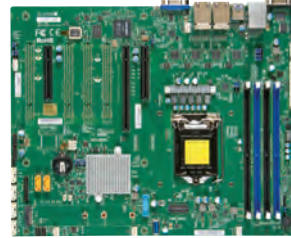
(Micro-ATX, 9.6"W x 9.6"H)

Cost/Performance
Optimized



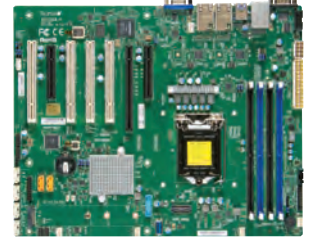
(Micro-ATX, 9.6"W x 9.6"H)

1U Networking
Appliance



(ATX, 12"W x 9.6"H)

Legacy 4x PCI-32
Support



(ATX, 12"W x 9.6"H)

MODEL	X11SSM	X11SSM-F	X11SSi-LN4F	X11SSA-F
Processor	Intel® 7th/6th Generation Core i3 series, Intel® Celeron®, Intel® Pentium®, Intel® Xeon® processor E3-1200 v6/v5. Single Socket H4 (LGA 1151) supported, CPU TDP support up to 80W TDP	Intel® 7th/6th Generation Core i3 series, Intel® Celeron®, Intel® Pentium®, Intel® Xeon® processor E3-1200 v6/v5. Single Socket H4 (LGA 1151) supported, CPU TDP support up to 80W TDP	Intel® 7th/6th Generation Core i3 series, Intel® Celeron®, Intel® Pentium®, Intel® Xeon® processor E3-1200 v6/v5. Single Socket H4 (LGA 1151) supported, CPU TDP support up to 80W TDP	Intel® 7th/6th Generation Core i3 series, Intel® Celeron®, Intel® Pentium®, Intel® Xeon® processor E3-1200 v6/v5. Single Socket H4 (LGA 1151) supported, CPU TDP support up to 80W TDP
Chipset	Intel® C236	Intel® C236	Intel® C236	Intel® C236
Form Factor	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)	ATX, 12" x 9.6" (30.48cm x 24.38cm)	ATX, 12" x 9.6" (30.48cm x 24.38cm)
Memory Capacity & Slots*	64GB Unbuffered ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	64GB Unbuffered ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	64GB Unbuffered ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	64GB Unbuffered ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x8, 2 PCI-E 3.0 x4 (in x8 slot)	1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x8, 2 PCI-E 3.0 x4 (in x8 slot)	1 PCI-E 3.0 x8, 1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x4 (in x8 slot) M.2 Interface: PCI-E 3.0 x4 and SATA M.2 Form Factor: 2242, 2260, 2280, 22110 M.2 Key: M-Key Double Height Connector	1 PCI-E 3.0 x8, 1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x4 (in x8 slot) 4 - 5V PCI 32bit M.2 Interface: PCI-E 3.0 x4 and SATA M.2 Form Factor: 2242, 2260, 2280, 22110 M.2 Key: M-Key Double Height Connector
Onboard RAID Controller	Intel® C236 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C236 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C236 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C236 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with Intel® Ethernet Controller I210-AT	Dual LAN with Intel® Ethernet Controller I210-AT	Quad LAN with Intel® Ethernet Controller I210-AT	Dual LAN with Intel® Ethernet Controller I210-AT
Onboard VGA	1 VGA port, Aspeed AST1400	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC
USB Ports	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)
Other Onboard I/O Devices	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM TPM Header 2 COM Ports (1 rear, 1 header)
Manageability	NMI, SSM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT
Thermal Control	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors
Other Features	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, WOL	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, WOL	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, WOL	Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, WOL
BIOS	128Mb SPI Flash EEPROM with AMI BIOS	128Mb SPI Flash EEPROM with AMI BIOS	128Mb SPI Flash EEPROM with AMI BIOS	128Mb SPI Flash EEPROM with AMI BIOS

* Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

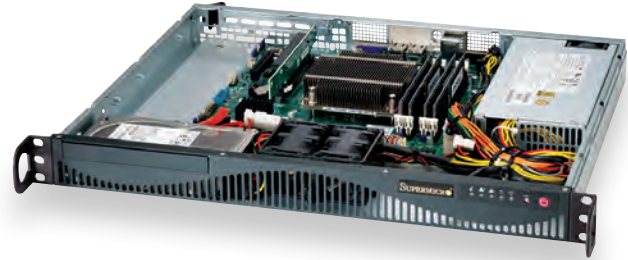
Optimized Chassis and Accessories

SC512F-441B

SC512F-350B

14.5" Mini-1U short-depth chassis

- 440W **Platinum Level** (94%+); or 350W **Gold Level** High-efficiency Power Supply
- 2x 3.5" Internal HDDs (opt.)
- 1x Slim DVD-ROM Drive (opt.)
- 2x Counter-rotating Fans
- 1x I/O Expansion Slot



SC815TQC-R504WB

SC815TQC-605WB

1U chassis optimize for WIO motherboard

- **SAS3 12Gb/s Technology**
- 4x 3.5" Hot-swap **SAS3/SATA** Drive Bays
- 500W/600W redundant **Platinum Level** power supplies
- 1x Slim DVD-ROM Drive (optional)
- 3x or 4x 4cm Counter-rotating PWM fans
- 2x Full-height I/O Expansion slots & 1x Low-profile I/O Expansion slot
- Power Switch, Reset, UID Button & 5 LED Indicators
- Quick release rail set



MB Chassis	X11SSM	X11SSM-F	X11SSi-LN4F	X11SSA-F
1U	● SC813MFTQC-505CB ● SC813MFTQC-350CB ● SC813MFTQ-R400CB - SC813MTQ-350CB - SC811TQ-441B ● SC113MFAC2-341CB ● SC113MFAC2-R606CB - SC512L-200B ● SC512F-350B ● SC510-203B 1U Heatsink: SNK-P0046P	● SC813MFTQC-505CB ● SC813MFTQC-350CB ● SC813MFTQ-R400CB - SC813MTQ-350CB - SC811TQ-441B ● SC113MFAC2-341CB ● SC113MFAC2-R606CB - SC512L-200B ● SC512F-350B ● SC510-203B 1U Heatsink: SNK-P0046P	● SC813MFTQC-505CB ● SC813MFTQC-350CB ● SC813MFTQ-R400CB ● SC113MFAC2-341CB ● SC113MFAC2-R606CB ● SC512F-441B ● SC512F-350B 1U Heatsink: SNK-P0046P	
2U	● SC823TQ-653LPB ● SC213LT-600LPB ● SC825TQ-R700LPB 2U Heatsink: SNK-P0046A4	● SC823TQ-653LPB ● SC213LT-600LPB ● SC825TQ-R700LPB 2U Heatsink: SNK-P0046A4	● SC825TQ-600LPB ● SC823TQ-653LPB ● SC213LT-600LPB 2U Heatsink: SNK-P0046A4	SC823TQ-653LPB 2U Heatsink: SNK-P0046A4
3U/ Mid-Tower	● SC833T-653B - SC732i-500B - SC732i-300B 2U Heatsink: SNK-P0046A4	● SC833T-653B - SC732i-500B - SC732i-300B 2U Heatsink: SNK-P0046A4	● SC833T-653B - SC732i-500B - SC732i-865B 2U Heatsink: SNK-P0046A4	SC833T-653B ● SC732i-500B ● SC732i-865B 2U Heatsink: SNK-P0046A4
4U/ Tower	SC842TQC-668B SC842i-500B 2U Heatsink: SNK-P0046A4	SC842TQC-668B SC842i-500B 2U Heatsink: SNK-P0046A4	SC842TQC-668B SC842i-500B SC743TQ-1200B-SQ 2U Heatsink: SNK-P0046A4	● SC842TQC-668B ● SC842i-500B ● SC743TQ-1200B-SQ 2U Heatsink: SNK-P0046A4

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 family.

● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

Low Power

Low Power
Quad CoreLow Power
Quad Core

Low Power



MODEL	X11SWN-C X11SWN-C-WOHS	X11SWN-E X11SWN-E-WOHS	X11SWN-H X11SWN-H-WOHS	X11SWN-L X11SWN-L-WOHS
Processor [†]	Intel® Celeron® Processor 4305UE Single Socket FCBGA-1528 supported, CPU TDP supports Up to 15W TDP	8th Generation Intel® Core™ i5-8365UE Processor Single Socket FCBGA-1528 supported, CPU TDP supports Up to 15W TDP	8th Generation Intel® Core™ i7-8665UE Processor Single Socket FCBGA-1528 supported, CPU TDP supports Up to 15W TDP	8th Generation Intel® Core™ i3-8145UE Processor Single Socket FCBGA-1528 supported, CPU TDP supports Up to 15W TDP
Chipset	System on Chip	System on Chip	System on Chip	System on Chip
Form Factor	3.5" SBC, 5.7" x 4.0" (14.6cm x 10.16cm)	3.5" SBC, 5.7" x 4.0" (14.6cm x 10.16cm)	3.5" SBC, 5.7" x 4.0" (14.6cm x 10.16cm)	3.5" SBC, 5.7" x 4.0" (14.6cm x 10.16cm)
Optimized Chassis	Embedded Compact Chassis: SuperChassis E102	Embedded Compact Chassis: SuperChassis E102	Embedded Compact Chassis: SuperChassis E102	Embedded Compact Chassis: SuperChassis E102
Memory Capacity & Slots*	Up to 64GB Unbuffered non-ECC SO-DIMM, DDR4-2133MHz, in 2 DIMM slots	Up to 64GB Unbuffered non-ECC SO-DIMM, DDR4-2400MHz, in 2 DIMM slots	Up to 64GB Unbuffered non-ECC SO-DIMM, DDR4-2400MHz, in 2 DIMM slots	Up to 64GB Unbuffered non-ECC SO-DIMM, DDR4-2400MHz, in 2 DIMM slots
Expansion Slots	M.2 Key: B-Key, M-Key, E-Key M.2 2242/3042/2280 B-Key (USB3.0/2.0 x 1, SATA Gen3 x 1) with nano SIM holder M.2 2230 E-Key (CNVi/PCI-E 3.0 x1/ USB2) M.2 2242/2280 M-Key (PCI-E 3.0 x4, SATA Gen3 x 1), NVMe support	M.2 Key: B-Key, M-Key, E-Key M.2 2242/3042/2280 B-Key (USB3.0/2.0 x 1, SATA Gen3 x 1) with nano SIM holder M.2 2230 E-Key (CNVi/PCI-E 3.0 x1/ USB2) M.2 2242/2280 M-Key (PCI-E 3.0 x4, SATA Gen3 x 1), NVMe support	M.2 Key: B-Key, M-Key, E-Key M.2 2242/3042/2280 B-Key (USB3.0/2.0 x 1, SATA Gen3 x 1) with nano SIM holder M.2 2230 E-Key (CNVi/PCI-E 3.0 x1/ USB2) M.2 2242/2280 M-Key (PCI-E 3.0 x4, SATA Gen3 x 1), NVMe support	M.2 Key: B-Key, M-Key, E-Key M.2 2242/3042/2280 B-Key (USB3.0/2.0 x 1, SATA Gen3 x 1) with nano SIM holder M.2 2230 E-Key (CNVi/PCI-E 3.0 x1/ USB2) M.2 2242/2280 M-Key (PCI-E 3.0 x4, SATA Gen3 x 1), NVMe support
Onboard RAID Controller	I-SATA0 (1x SATA 3.0 Port)	I-SATA0 (1x SATA 3.0 Port)	I-SATA0 (1x SATA 3.0 Port)	I-SATA0 (1x SATA 3.0 Port)
Onboard LAN	Single LAN with Intel® Ethernet Controller I210IT Single LAN with Intel® PHY I219LM LAN controller	Single LAN with Intel® Ethernet Controller I210IT Single LAN with Intel® PHY I219LM LAN controller	Single LAN with Intel® Ethernet Controller I210IT Single LAN with Intel® PHY I219LM LAN controller	Single LAN with Intel® Ethernet Controller I210IT Single LAN with Intel® PHY I219LM LAN controller
Onboard VGA	1 DP++(Dual-Mode DisplayPort) port, 1 48-bit LVDS port, 1 HDMI port, Dual channel 48-bit LVDS(max. resolution up to 1920x1200@60Hz), HDMI 1.4 (max. resolution up to 4096x2160@30Hz), DP++ (max. resolution up to 4096x2304@60Hz), Intel® UHD Graphics 610	1 DP++(Dual-Mode DisplayPort) port, 1 48-bit LVDS port, 1 HDMI port, Dual channel 48-bit LVDS(max. resolution up to 1920x1200@60Hz), HDMI 1.4 (max. resolution up to 4096x2160@30Hz), DP++ (max. resolution up to 4096x2304@60Hz), Intel® UHD Graphics 620	1 DP++(Dual-Mode DisplayPort) port, 1 48-bit LVDS port, 1 HDMI port, Dual channel 48-bit LVDS(max. resolution up to 1920x1200@60Hz), HDMI 1.4 (max. resolution up to 4096x2160@30Hz), DP++ (max. resolution up to 4096x2304@60Hz), Intel® UHD Graphics 620	1 DP++(Dual-Mode DisplayPort) port, 1 48-bit LVDS port, 1 HDMI port, Dual channel 48-bit LVDS(max. resolution up to 1920x1200@60Hz), HDMI 1.4 (max. resolution up to 4096x2160@30Hz), DP++ (max. resolution up to 4096x2304@60Hz), Intel® UHD Graphics 620
USB Ports	4 USB 2.0 ports (4 via headers) 4 USB 3.1 Gen2 ports (4 Rears Type A) ALC 888S HD Audio TPM 2.0 Chip 6 COM Ports (6 headers); (4 x RS232, 2 RS232/422/485, RS-485 supports Auto flow control)	4 USB 2.0 ports (4 via headers) 4 USB 3.1 Gen2 ports (4 Rears Type A) ALC 888S HD Audio TPM 2.0 Chip 6 COM Ports (6 headers); (4 x RS232, 2 RS232/422/485, RS-485 supports Auto flow control)	4 USB 2.0 ports (4 via headers) 4 USB 3.1 Gen2 ports (4 Rears Type A) ALC 888S HD Audio TPM 2.0 Chip 6 COM Ports (6 headers); (4 x RS232, 2 RS232/422/485, RS-485 supports Auto flow control)	4 USB 2.0 ports (4 via headers) 4 USB 3.1 Gen2 ports (4 Rears Type A) ALC 888S HD Audio TPM 2.0 Chip 6 COM Ports (6 headers); (4 x RS232, 2 RS232/422/485, RS-485 supports Auto flow control)
Other Onboard I/O Devices	1 HD Audio header Mic-in/Headphone- out (Audio only support at 0~60C) 1 8-bit GPIO header 1 SMBus header	1 HD Audio header Mic-in/Headphone- out (Audio only support at 0~60C) 1 8-bit GPIO header 1 SMBus header	1 HD Audio header Mic-in/Headphone- out (Audio only support at 0~60C) 1 8-bit GPIO header 1 SMBus header	1 HD Audio header Mic-in/Headphone- out (Audio only support at 0~60C) 1 8-bit GPIO header 1 SMBus header
Manageability	1 System Fan -WOHS: w/o Heatsink SuperDoctor® 5, Watchdog	1 System Fan -WOHS: w/o Heatsink AMT, SuperDoctor® 5, vPro, Watchdog	1 System Fan -WOHS: w/o Heatsink AMT, SuperDoctor® 5, vPro, Watchdog	1 System Fan -WOHS: w/o Heatsink SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, 1.2V (VDIMM), 3.3V standby, Monitors CPU voltages, System level control, System temperature, VBAT	+12V, +3.3V, +5V, 1.2V (VDIMM), 3.3V standby, Monitors CPU voltages, System level control, System temperature, VBAT	+12V, +3.3V, +5V, 1.2V (VDIMM), 3.3V standby, Monitors CPU voltages, System level control, System temperature, VBAT	+12V, +3.3V, +5V, 1.2V (VDIMM), 3.3V standby, Monitors CPU voltages, System level control, System temperature, VBAT
Thermal Control	8-pin 12-24V DC Power Connector, ACPI power management, Control of power- on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	8-pin 12-24V DC Power Connector, ACPI power management, Control of power- on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	8-pin 12-24V DC Power Connector, ACPI power management, Control of power- on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	8-pin 12-24V DC Power Connector, ACPI power management, Control of power- on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL
Other Features				
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

[†] Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

Xeon D SoC
Skylake-D
Quad 10GbE LAN
Embedded



Xeon D SoC
Skylake-D
Quad 10GbE LAN
Embedded



Xeon D SoC
Skylake-D
Intel® Quick Assist Technology
Quad 10GbE LAN
Embedded



MODEL	X11SDW-4C-TP13F+	X11SDW-16C-TP13F+	X11SDW-14CN-TP13F+
Processor†	Intel® Xeon® Processor D-2123IT Single Socket FCBGA-2518 supported, CPU TDP supports Up to 60W TDP	Intel® Xeon® Processor D-2183IT Single Socket FCBGA-2518 supported, CPU TDP supports Up to 100W TDP	Intel® Xeon® Processor D-2177NT Single Socket FCBGA-2518 supported, CPU TDP supports 105W TDP
Chipset	System on Chip	System on Chip	System on Chip
Form Factor	Proprietary WIO, 8" x 10" (20.32cm x 25.4cm)	Proprietary WIO, 8" x 10" (20.32cm x 25.4cm)	Proprietary WIO, 8" x 10" (20.32cm x 25.4cm)
Optimized Chassis	513BTQC-350WB 513BTQC-505WB	513BTQC-350WB 513BTQC-505WB	513BTQC-350WB 513BTQC-505WB
Memory Capacity & Slots*	Up to 256GB Registered ECC RDIMM, DDR4-2400MHz; Up to 512GB LRDIMM LRDIMM, DDR4-2400MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2400MHz; Up to 512GB LRDIMM LRDIMM, DDR4-2400MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2400MHz; Up to 512GB LRDIMM LRDIMM, DDR4-2400MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x32 Left Riser Slot 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2280/22110 1 M.2 E-Key PCI-E 3.0 x1, 2230 1 M.2 B-Key SATA/PCI-E 3.0 x2/USB 3.0, 2242/3042	1 PCI-E 3.0 x32 Left Riser Slot 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2280/22110 1 M.2 E-Key PCI-E 3.0 x1, 2230 1 M.2 B-Key SATA/PCI-E 3.0 x2/USB 3.0, 2242	1 PCI-E 3.0 x32 Left Riser Slot 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2280/22110 1 M.2 E-Key PCI-E 3.0 x1, 2230 1 M.2 B-Key SATA/PCI-E 3.0 x2/USB 3.0, 2242
Onboard RAID Controller	SoC controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	SoC controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	SoC controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with 10G SFP+ LAN via SoC Dual LAN with 10Gbse-T Quad LAN with Intel® Ethernet Controller I350-AM4 Quad LAN with 1GbE with Intel® I350-AM4 Single LAN with 1GbE with Intel® I210 Total 13 LAN ports Single LAN with Realtek RTL8211E PHY (dedicated IPMI)	Quad LAN with Intel® Ethernet Controller I350-AM4 Quad LAN with 1GbE with Intel® I350-AM4 Quad LAN with 10G SFP+ LAN via SoC Single LAN with 1GbE with Intel® I210 Total 13 LAN ports Single LAN with Realtek RTL8201N PHY (dedicated IPMI)	Quad LAN with Intel® Ethernet Controller I350-AM4 Quad LAN with 1GbE with Intel® I350-AM4 Quad LAN with 10G SFP+ LAN via SoC Single LAN with 1GbE with Intel® I210 Total 13 LAN ports Single LAN with Realtek RTL8201N PHY (dedicated IPMI)
Onboard VGA	1 VGA port, Header Only, ASPEED AST2500 BMC	1 VGA port, Header Only, ASPEED AST2500 BMC	1 VGA port, Header Only, ASPEED AST2500 BMC
USB Ports	4 USB 2.0 ports (4 via headers) 2 USB 3.1 Gen1 ports (2 Rears Type A)	4 USB 2.0 ports (4 via headers) 2 USB 3.1 Gen1 ports (2 Rears Type A)	4 USB 2.0 ports (4 via headers) 2 USB 3.1 Gen1 ports (2 Rears Type A)
Other Onboard I/O Devices	TPM 2.0 Header & Chip both 2 COM Ports (1 rear, 1 header)	TPM 2.0 Header & Chip both 2 COM Ports (1 rear, 1 header) Support TPM2.0 Onboard	TPM 2.0 Header & Chip both 2 COM Ports (1 rear, 1 header)
Manageability	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.5V, +12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, HT, Memory, Memory Voltages, Supports system management utility, System level control, System temperature	+1.5V, +12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, HT, Memory, Memory Voltages, Supports system management utility, System level control, System temperature	+1.5V, +12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, HT, Memory, Memory Voltages, Supports system management utility, System level control, System temperature
Thermal Control			
Other Features	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, Node Manager Support, RoHS, SDDC, System level control, UID, WOL	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, Node Manager Support, RoHS, SDDC, System level control, UID, WOL	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, Node Manager Support, RoHS, SDDC, System level control, UID, WOL
BIOS	UEFI 256Mb	UEFI 256Mb	UEFI 256Mb

† Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

Xeon® D SoC, Skylake-D
Quad 10GbE LANXeon® D SoC, Skylake-D
Intel® Quick Assist Technology
Quad 10GbE LANXeon® D SoC, Skylake-D
Quad 10GbE LAN

MODEL	X11SDW-4C-TP13F	X11SDW-8C-TP13F	X11SDW-12C-TP13F
Processor†	Intel® Xeon® Processor D-2123IT Single Socket FCBGA-2518 supported, CPU TDP supports Up to 60W TDP	Intel® Xeon® Processor D-2146NT Single Socket FCBGA-2518 supported, CPU TDP supports Up to 80W TDP	Intel® Xeon® Processor D-2163IT Single Socket FCBGA-2518 supported, CPU TDP supports Up to 75W TDP
Chipset	System on Chip	System on Chip	System on Chip
Form Factor	Proprietary WIO, 8" x 10" (20.32cm x 25.4cm)	Proprietary WIO, 8" x 9.6" (20.32cm x 24.38cm)	Proprietary WIO, 8" x 10" (20.32cm x 25.4cm)
Optimized Server	SYS-E303-9D-4C-FN13TP	SYS-1019D-FHN13TP SYS-E303-9D-8C-FN13TP	SYS-E403-9D-12C-FN13TP
Memory Capacity & Slots*	Up to 256GB Registered ECC RDIMM, DDR4-2400MHz; Up to 512GB LRDIMM LRDIMM, DDR4-2400MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2133MHz; Up to 512GB LRDIMM LRDIMM, DDR4-2133MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2400MHz; Up to 512GB LRDIMM LRDIMM, DDR4-2400MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x32 Left Riser Slot 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2280/22110 1 M.2 E-Key PCI-E 3.0 x1, 2230 1 M.2 B-Key SATA/PCI-E 3.0 x2/USB 3.0, 2242/3042	1 PCI-E 3.0 x32 Left Riser Slot 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2280/22110 1 M.2 E-Key PCI-E 3.0 x1, 2230 1 M.2 B-Key SATA/PCI-E 3.0 x2/USB 3.0, 2242/3042	1 PCI-E 3.0 x32 Left Riser Slot 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2280/22110 1 M.2 E-Key PCI-E 3.0 x1, 2230 1 M.2 B-Key SATA/PCI-E 3.0 x2/USB 3.0, 2242
Onboard RAID Controller	SoC controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	SoC controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	SoC controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Dual LAN with 10G SFP+ LAN via SoC Dual LAN with 10Gbse-T Quad LAN with Intel® Ethernet Controller I350-AM4 Quad LAN with 1GbE with Intel® I350-AM4 Single LAN with 1GbE with Intel® I210 Total 13 LAN ports Single LAN with Realtek RTL8211E PHY (dedicated IPMI)	Quad LAN with Intel® Ethernet Controller I350-AM4 Dual LAN with 10G SFP+ LAN via SoC Dual LAN with 10Gbse-T Quad LAN with 1GbE with Intel® I350-AM4 Single LAN with 1GbE with Intel® I210 Total 13 LAN ports Single LAN with Realtek RTL8201N PHY (dedicated IPMI)	Quad LAN with Intel® Ethernet Controller I350-AM4 Quad LAN with 1GbE with Intel® I350-AM4 Dual LAN with 10G SFP+ LAN via SoC Dual LAN with 10Gbse-T Single LAN with 1GbE with Intel® I210 Total 13 LAN ports Single LAN with Realtek RTL8201N PHY (dedicated IPMI)
Onboard VGA	1 VGA port, Header Only, ASPEED AST2500 BMC	1 VGA port, Header Only, ASPEED AST2500 BMC	1 VGA port, Header Only, ASPEED AST2500 BMC
USB Ports	4 USB 2.0 ports (4 via headers) 2 USB 3.1 Gen1 ports (2 Rears Type A)	4 USB 2.0 ports (4 via headers) 2 USB 3.1 Gen1 ports (2 Rears Type A)	4 USB 2.0 ports (4 via headers) 2 USB 3.1 Gen1 ports (2 Rears Type A)
Other Onboard I/O Devices	TPM 2.0 Header & Chip both 2 COM Ports (1 rear, 1 header)	TPM 2.0 Header & Chip both 2 COM Ports (1 rear, 1 header)	TPM 2.0 Header & Chip both 2 COM Ports (1 rear, 1 header)
Manageability	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.5V, +12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, HT, Memory, Memory Voltages, Supports system management utility, System level control, System temperature	+1.5V, +12V, +3.3V, +5V, +5V standby, 5 (4-pin), 5 -fan status, 6 -fan status, Chassis intrusion header, Memory Voltages, Monitors CPU voltages, Supports system management utility, System level control, System temperature	+1.5V, +12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, HT, Memory, Memory Voltages, Supports system management utility, System level control, System temperature
Thermal Control	6x 4-pin fan headers (up to 6 fans), 6 fans with tachometer status monitoring, Dual Cooling Zone, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	6x 4-pin fan headers (up to 6 fans), 6 fans with tachometer status monitoring, Dual Cooling Zone, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	6x 4-pin fan headers (up to 6 fans), 6 fans with tachometer status monitoring, Dual Cooling Zone, Fan speed control, Low noise fan speed control, Overheat LED indication, Pulse Width Modulated (PWM) fan connectors, PWM fan speed control, Status monitoring for speed control, System level control, Thermal control tachometer fan connectors
Other Features	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, Node Manager Support, RoHS, SDDC, System level control, UID, WOL	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Intel® QuickAssist Technology, M.2 NGFF connector, Node Manager Support, RoHS, SDDC, System level control, UID, WOL	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, Node Manager Support, RoHS, SDDC, System level control, UID, WOL
BIOS	UEFI 256Mb	UEFI 256Mb	UEFI 256Mb

† Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

Xeon® D SoC, Skylake-D
Quad 10GbE LAN



Xeon® D SoC, Skylake-D
Intel® Quick Assist Technology
Quad 10GbE LAN



Xeon® D SoC, Skylake-D
Quad 10GbE LAN



MODEL	X11SDW-14C-TP13F	X11SDW-14CNT-TP13F	X11SDW-16C-TP13F
Processor†	Intel® Xeon® Processor D-2173IT Single Socket FCBGA-2518 supported, CPU TDP supports 70W TDP	Intel® Xeon® Processor D-2177NT Single Socket FCBGA-2518 supported, CPU TDP supports 105W TDP	Intel® Xeon® Processor D-2183IT Single Socket FCBGA-2518 supported, CPU TDP supports Up to 100W TDP
Chipset	System on Chip	System on Chip	System on Chip
Form Factor	Proprietary WIO, 8" x 10" (20.32cm x 25.4cm)	Proprietary WIO, 8" x 9.6" (20.32cm x 24.38cm)	Proprietary WIO, 8" x 10" (20.32cm x 25.4cm)
Optimized Server	SYS-E403-9D-14C-FN13TP	SYS-1019D-14CN-FHN13TP	SYS-1019D-16C-FHN13TP SYS-E403-9D-16C-FN13TP
Memory Capacity & Slots*	Up to 256GB Registered ECC RDIMM, DDR4-2133MHz; Up to 512GB LRDIMM LRDIMM, DDR4-2133MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2666MHz; Up to 512GB LRDIMM LRDIMM, DDR4-2666MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2400MHz; Up to 512GB LRDIMM LRDIMM, DDR4-2400MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x32 Left Riser Slot 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2280/22110 1 M.2 E-Key PCI-E 3.0 x1, 2230 1 M.2 B-Key SATA/PCI-E 3.0 x2/USB 3.0, 2242	1 PCI-E 3.0 x32 Left Riser Slot 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2280/22110 1 M.2 E-Key PCI-E 3.0 x1, 2230 1 M.2 B-Key SATA/PCI-E 3.0 x2/USB 3.0, 2242/3042	1 PCI-E 3.0 x32 Left Riser Slot 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2280/22110 1 M.2 E-Key PCI-E 3.0 x1, 2230 1 M.2 B-Key SATA/PCI-E 3.0 x2/USB 3.0, 2242
Onboard RAID Controller	SoC controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	SoC controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	SoC controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Quad LAN with Intel® Ethernet Controller I350-AM4 Quad LAN with 1GbE with Intel® I350-AM4 Dual LAN with 10G SFP+ LAN via SoC Dual LAN with 10Gbse-T Single LAN with 1GbE with Intel® I210 Total 13 LAN ports Single LAN with Realtek RTL8201N PHY (dedicated IPMI)	Quad LAN with Intel® Ethernet Controller I350-AM4 Dual LAN with 10G SFP+ LAN via SoC Dual LAN with 10Gbse-T Quad LAN with 1GbE with Intel® I350-AM4 Single LAN with 1GbE with Intel® I210 Total 13 LAN ports Single LAN with Realtek RTL8201N PHY (dedicated IPMI)	Quad LAN with Intel® Ethernet Controller I350-AM4 Quad LAN with 1GbE with Intel® I350-AM4 Dual LAN with 10G SFP+ LAN via SoC Dual LAN with 10Gbse-T Single LAN with 1GbE with Intel® I210 Total 13 LAN ports Single LAN with Realtek RTL8201N PHY (dedicated IPMI)
Onboard VGA	1 VGA port, Header Only, ASPEED AST2500 BMC	1 VGA port, Header Only, ASPEED AST2500 BMC	1 VGA port, Header Only, ASPEED AST2500 BMC
USB Ports	4 USB 2.0 ports (4 via headers) 2 USB 3.1 Gen1 ports (2 Rears Type A)	4 USB 2.0 ports (4 via headers) 2 USB 3.1 Gen1 ports (2 Rears Type A)	4 USB 2.0 ports (4 via headers) 2 USB 3.1 Gen1 ports (2 Rears Type A)
Other Onboard I/O Devices	TPM 2.0 Header & Chip both 2 COM Ports (1 rear, 1 header)	TPM 2.0 Header & Chip both 2 COM Ports (1 rear, 1 header)	TPM 2.0 Header & Chip both 2 COM Ports (1 rear, 1 header)
Manageability	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.5V, +12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, HT, Memory, Memory Voltages, Supports system management utility, System level control, System temperature	+1.5V, +12V, +3.3V, +5V, +5V standby, 5 (4-pin), 5 -fan status, 6 -fan status, Chassis intrusion header, Memory Voltages, Monitors CPU voltages, Supports system management utility, System level control, System temperature	+1.5V, +12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, HT, Memory, Memory Voltages, Supports system management utility, System level control, System temperature
Thermal Control	6x 4-pin fan headers (up to 6 fans), 6 fans with tachometer status monitoring, Dual Cooling Zone, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors		
Other Features	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, Node Manager Support, RoHS, SDDC, System level control, UID, WOL	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Intel® QuickAssist Technology, M.2 NGFF connector, Node Manager Support, RoHS, SDDC, System level control, UID, WOL	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, Node Manager Support, RoHS, SDDC, System level control, UID, WOL
BIOS	UEFI 256Mb	UEFI 256Mb	UEFI 256Mb

† Supermicro chassis required for optimal functionality and performance.
* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

vPro AMT
6-Core

(Mini-ITX, 6.75"W x 6.75"H)

High Performance
6-Core

(Mini-ITX, 6.75"W x 6.75"H)

Skylake-D, 16-Core
NVMe, Dual 10GbE

(Mini-ITX, 6.75"W x 6.75"H)

Skylake-D
8-Core
NVMe, Dual 10GbE

(Mini-ITX, 6.75"W x 6.75"H)

MODEL	X11SCV-Q	X11SCV-L	X11SDV-16C+-TLN2F	X11SDV-8C+-TLN2F
Processor	8th Generation Intel® Core™ i7/i5/i3/ Pentium®/Celeron® Processor . Single Socket H4 (LGA 1151) supported, CPU TDP support up to 65W TDP	8th Generation Intel® Core™ i7/i5/i3/ Pentium®/Celeron® Processor . Single Socket H4 (LGA 1151) supported, CPU TDP support up to 65W TDP	Intel® Xeon® Processor D-2183IT, CPU TDP support up to 100W TDP	Intel® Xeon® Processor D-2141I, CPU TDP support up to 65W TDP
Chipset	Intel® Q370	Intel® H310	System on Chip	System on Chip
Form Factor	Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)	Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)	Mini-ITX, 6.75" x 6.75" (17.15cm x 17.15cm)	Mini-ITX, 6.75" x 6.75" (17.15cm x 17.15cm)
Optimized Chassis	● SCe300 SC721TQ-250B	● SCe300 SC721TQ-250B		SC721TQ-250B
Memory Capacity & Slots*	Up to 32GB Unbuffered non-ECC SO-DIMM, DDR4-2666 MHz, in 2 DIMM slots	Up to 32GB Unbuffered non-ECC SO-DIMM, DDR4-2666 MHz, in 2 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2400 MHz; Up to 512GB ECC LRDIMM, DDR4-2400 MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2133 MHz; Up to 512GB ECC LRDIMM, DDR4-2133 MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 1 M.2 M-Key PCI-E 3.0 x4, 2242/2280 1 M.2 E-Key CNVi/PCI-E 3.0 x1, 2230	1 PCI-E 3.0 x16 1 M.2 E-Key PCI-E 2.0 x1, 2230	1 PCI-E 3.0 x8 1 PCI-E 3.0 x4 NVMe Internal Port via OcuLink SoC controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10 4 SATA ports via OcuLink (or PCI-E 3.0 x4 for NVMe)	1 PCI-E 3.0 x8 1 PCI-E 3.0 x4 NVMe Internal Port via OcuLink SoC controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10 4 SATA ports via OcuLink (or PCI-E 3.0 x4 for NVMe)
Onboard RAID Controller	Intel® Q370 controller for 5 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® H310 controller for 4 SATA3 (6 Gbps) ports; Only I-SATA0 - I-SATA3		
Onboard LAN	Single LAN with Intel® Ethernet Controller I210-AT Single LAN with Intel® PHY I219LM LAN controller	Single LAN with Intel® PHY I219LM LAN controller Single LAN with Intel® Ethernet Controller I210-AT	Dual LAN with 10GBase-T with Intel® X557	Dual LAN with 10GBase-T with Intel® X557
Onboard VGA	1 DVI - D port, 1 HDMI port, 1 DP (DisplayPort) port, 1 eDP (Embedded DisplayPort) port, 3 Independent Displays, HDMI 2.0, Intel® HD Graphics	1 DVI - D port, 1 HDMI port, 1 DP (DisplayPort) port, 1 eDP (Embedded DisplayPort) port, 2 Independent Displays, Intel® HD Graphics	1 VGA port, Aspeed AST2500 BMC	1 VGA port, Aspeed AST2500 BMC
USB Ports	4 USB 2.0 ports (4 headers, Type A)) 6 USB 3.1 ports (4 rears (2 Type A + 2 Type C) + 2 headers; USB 3.1 Gen 2)	4 USB 2.0 ports (4 headers, Type A)) 4 USB 3.1 ports (4 rears (2 Type A + 2 Type C)	2 USB 2.0 ports (2 headers, Type A)) 2 USB 3.0 ports (2 rear)	2 USB 2.0 ports (2 headers, Type A)) 2 USB 3.0 ports (2 rear)
Other Onboard I/O Devices	ALC 8885 HD Audio TPM 2.0 Header & Chip both 6 COM Ports (2 rear, 4 headers); 4COM port support RS-232 thru pin header; 2COM support RS-232/422/485 in rear	ALC 8885 HD Audio TPM 2.0 Header & Chip both 6 COM Ports (2 rear, 4 headers); 4COM ports support RS-232 thru pin header; 2COM ports support RS-232/422/485 in rear	TPM Header	TPM Header
Manageability	AMT, NMI, SuperDoctor® 5, vPro, Watchdog	NMI, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SPM, SSM, SUM, SuperDoctor® 5, Watchdog +1.5V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3 -fan status, Memory Voltages, Monitors CPU voltages, Supports system management utility, VBAT	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SPM, SSM, SUM, SuperDoctor® 5, Watchdog +1.5V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3 -fan status, Memory Voltages, Monitors CPU voltages, Supports system management utility, VBAT
PC Health Monitoring	+1.8V, +3.3V, +5V, +5V standby, 3 -fan status, HT, System level control, System temperature, VBAT	+1.8V, +3.3V, +5V, +5V standby, 3 -fan status, HT, System level control, System temperature, VBAT		
Thermal Control	3x 4-pin fan headers (up to 3 fans), 3 fans with tachometer monitoring, Fan speed control, Low noise fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	3x 4-pin fan headers (up to 3 fans), 3 fans with tachometer monitoring, Pulse Width Modulated (PWM) fan connectors, System level control, Thermal control tachometer fan connectors	3x 4-pin fan headers (up to 3 fans), 3 fans with tachometer monitoring, Dual Cooling Zone, Fan speed control, Pulse Width Modulated (PWM) fan connectors, Support 3-pin fans (w/o speed control)	3x 4-pin fan headers (up to 3 fans), 3 fans with tachometer monitoring, Dual Cooling Zone, Fan speed control, Pulse Width Modulated (PWM) fan connectors, Support 3-pin fans (w/o speed control)
Other Features	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, M.2 NGFF connector, RoHS, System level control, WOL	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Dual Cooling Zones, Node Manager Support, RoHS, UID	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Dual Cooling Zones, Node Manager Support, RoHS, UID
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

* Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

High Performance
vPro AMT
2666MHz DDR4



High Performance
Workstation
2666MHz DDR4



vPro AMT
High Performance
2666MHz DDR4



High Performance
IPMI



MODEL	X11SCQ	X11SCQ-L	X11SCZ-Q	X11SCZ-F
Processor	8th/9th Generation Intel® Core™ i9/ Core™ i7/Core™ i5/Core™ i3/Pentium®/ Celeron® Processor Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP	8th/9th Generation Intel® Core™ i9/ Core™ i7/Core™ i5/Core™ i3/Pentium®/ Celeron® Processor Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP	8th/9th Generation Intel® Core™ i9/ Core™ i7/Core™ i5/Core™ i3/Pentium®/ Celeron® Processor Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP	8th/9th Generation Intel® Core™ i9/ Core™ i7/Core™ i5/Core™ i3/Pentium®/ Celeron® Processor, Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP
Chipset	Intel® Q370	Intel® H310	Intel® Q370	Intel® C246
Form Factor	uATX, 9.6" x 9.6" (24.38cm x 24.38cm)	uATX, 9.6" x 9.6" (24.38cm x 24.38cm)	uATX, 9.6" x 9.6" (24.38cm x 24.38cm)	uATX, 9.6" x 9.6" (24.38cm x 24.38cm)
Memory Capacity & Slots*	Up to 64GB Unbuffered non-ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots	Up to 32GB Unbuffered non-ECC UDIMM, DDR4-2666MHz, in 2 DIMM slots	Up to 128GB Unbuffered non-ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots	Up to 128GB Unbuffered ECC/non-ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16, 1 PCI-E 3.0 x1, 2 PCI-E 3.0 x4 M.2 Interface: 1 PCI-E 3.0 x4 M.2 Form Factor: 2242/2280/22110 M.2 Key: M-Key	1 PCI-E 3.0 x16 1 PCI-E 2.0 x4 1 PCI-E 2.0 x1	1 PCI-E 3.0 x16, 2 PCI-E 3.0 x4 (in x8 slot) M.2 Interface: 1 SATA/PCI-E 3.0 x4 M.2 Form Factor: 2280/22110 M.2 Key: M-Key	1 PCI-E 3.0 x16, 2 PCI-E 3.0 x4 (in x8 slot) 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2280/22110
Onboard RAID Controller	Intel® Q370 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® H310 controller for 4 SATA3 (6 Gbps) ports;	Intel® Q370 controller for 5 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C246 controller for 5 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Single LAN with Intel® Ethernet Controller I210-AT Single LAN with Intel® PHY I219LM LAN controller	Single LAN with Intel® Ethernet Controller I210-AT Single LAN with Intel® PHY I219LM LAN controller	Single LAN with Intel® Ethernet Controller I210-AT Single LAN with Intel® PHY I219LM LAN controller	Single LAN with Intel® Ethernet Controller I210-AT Single LAN with Intel® PHY I219LM LAN controller
Onboard VGA	1 DVI - D port, 1 HDMI port, 1 DP (DisplayPort) port, 1 eDP (Embedded DisplayPort) port, 3 Independent Displays, Intel® HD Graphics	1 DVI - D port, 1 HDMI port, 1 DP (DisplayPort) port, 1 eDP (Embedded DisplayPort) port, 2 Independent Displays, Intel® HD Graphics	1 DVI - I port, 2 DP (DisplayPort) ports, 3 Independent Displays, Intel® HD Graphics	1 VGA D-Sub Connector port, 1 DVI - I port, 2 DP (DisplayPort) ports, 3 Independent Displays, ASPEED AST2500 BMC, Intel® HD Graphics
USB Ports	6 USB 2.0 ports (2 rear + 4 via headers) 6 USB 3.2 Gen2 ports (4 rears (2 Rear Type A + 2 Rear Type C + 2 via headers)	6 USB 2.0 ports (2 rear + 4 via headers) 4 USB 3.1 Gen1 ports (2 Rears Type A + 2 Rears Type C)	7 USB 2.0 ports (6 via headers, 1 Type A) 2 USB 3.1 Gen1 ports(2 via headers) 6 USB 3.1 Gen2 ports (3 Rears Type A + 1 Rear Type C, 2 via headers) 1 Port SuperDOM	7 USB 2.0 ports (6 via headers, 1 Type A) 2 USB 3.1 Gen1 ports(2 via headers) 6 USB 3.1 Gen2 ports (3 Rears Type A + 1 Rear Type C, 2 via headers)
Other Onboard I/O Devices	7.1 HD Audio TPM Header & Chip both 6 COM Ports (6 headers)	7.1 HD Audio TPM Header 6 COM Ports (6 headers)	ALC 888S HD Audio TPM Header & Chip both 4 COM Ports (4 headers)	ALC 888S HD Audio TPM Header & Chip both 4 COM Ports (4 headers)
Manageability	AMT, NMI, SuperDoctor® 5, vPro, Watchdog	NMI, SuperDoctor® 5, Watchdog	AMT, NMI, SuperDoctor® 5, vPro, Watchdog	IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, 1.2V (VDIMM), 4 fans with tachometer monitoring, Chassis intrusion header, Memory Voltages, Monitors CPU voltages, System temperature, VBAT	+12V, +3.3V, +5V, 1.2V (VDIMM), 4 fans with tachometer monitoring, Chassis intrusion header, Memory Voltages, Monitors CPU voltages, System temperature, VBAT	+1.35V, +1.5V, +1.8V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 5 -fan status	+12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 6 -fan status, Chassis intrusion header, Memory Voltages, Monitors CPU voltages, System temperature, VBAT
Thermal Control				
Other Features	ACPI power management, ATX Power connector, Chassis intrusion header, M.2 NGFF connector, RoHS	ACPI power management, ATX Power connector, Chassis intrusion header, RoHS, WOL	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, M.2 NGFF connector, RoHS	12v DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Dual Cooling Zones, M.2 NGFF connector, RoHS, UID
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

¹ Supermicro chassis required for optimal functionality and performance.
* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

Xeon D SoC
Quad 10GbE LAN
Quad 10GbE LAN
IPMI



(Flex ATX, 9"W x 7.25"H)

8-Core Denverton
Quad 10GbE LAN
Intel® Quick Assist Technology
IPMI, Intel® Xeon® D SoC



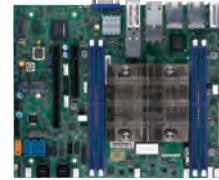
(Flex ATX, 9"W x 7.25"H)

12-Core Denverton
Quad 10GbE LAN
Intel® Quick Assist Technology
IPMI, Intel® Xeon D® SoC



(Flex ATX, 9"W x 7.25"H)

Intel® Xeon® Processor D,
16 Core
Dual 10GbE SFP+,
Dual 10GbE SFP+, IPMI



(Flex ATX, 9"W x 7.25"H)

MODEL	X11SDV-4C-TP8F		X11SDV-8C-TP8F		X11SDV-12C-TP8F		X11SDV-16C-TP8F	
Processor†	Intel® Xeon® Processor D-2123IT, CPU TDP supports Up to 60W TDP		Intel® Xeon® Processor D-2146NT, CPU TDP support up to 80W TDP		Intel® Xeon® Processor D-2166NT, CPU TDP support up to 85W TDP		Intel® Xeon® Processor D-2183IT, CPU TDP support up to 100W TDP	
Chipset	System on Chip		System on Chip		System on Chip		System on Chip	
Form Factor	Flex ATX, 9" x 7.25" (22.86cm x 18.42cm)		Flex ATX, 9" x 7.25" (22.86cm x 18.42cm)		Flex ATX, 9" x 7.25" (22.86cm x 18.42cm)		Flex ATX, 9" x 7.25" (22.86cm x 18.42cm)	
Optimized Chassis	Mini 1U:	Mid-Tower:	Mini 1U:	Mid-Tower:	Mini 1U:	Mid-Tower:	Mini 1U:	Mid-Tower:
	SC505-203B SC504-203B SC813MFTQ-R400CB SC512F-260 SC512-260B	SC721TQ-250B	SC505-203B SC504-203B SC813MFTQ-R400CB SC512F-260 SC512-260B	SC721TQ-250B	SC505-203B SC504-203B SC813MFTQ-R400CB SC512F-260 SC512-260B	SC721TQ-250B	SC505-203B SC504-203B SC813MFTQ-R400CB SC512F-260 SC512-260B	SC721TQ-250B
Memory Capacity & Slots*	Up to 256GB Registered ECC RDIMM, DDR4-2133MHz; Up to 512GB LRDIMM LRDIMM, DDR4-2133MHz, in 4 DIMM slots		Up to 256GB Registered ECC RDIMM, DDR4-2133 MHz; Up to 512GB LRDIMM LRDIMM, DDR4-2133 MHz, in 4 DIMM slots		Up to 256GB Registered ECC RDIMM, DDR4-2133 MHz; Up to 512GB LRDIMM LRDIMM, DDR4-2133 MHz, in 4 DIMM slots		Up to 256GB Registered ECC RDIMM, DDR4-2400 MHz; Up to 512GB LRDIMM, DDR4-2400 MHz, in 4 DIMM slots	
Expansion Slots	1 PCI-E 3.0 x8, 1 PCI-E 3.0 x16 1 Mini-PCI-E, 2 PCI-E 3.0 NVMe x4 Internal Port(s) 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2280 1 M.2 B-Key SATA/PCI-E 3.0 x2, 3042 U.2 Interface: 2 PCI-E 3.0 x4		1 PCI-E 3.0 x8, 1 PCI-E 3.0 x16 M.2 Interface: 1 PCI-E 3.0 x4 and 1 SATA/PCI-E 3.0 x2 M.2 Form Factor: 2242/2280 M.2 Key: M-Key, B-Key U.2 Interface: 2 PCI-E 3.0 x4, 2 PCI-E 3.0 NVMe x4 Internal Ports		1 PCI-E 3.0 x8, 1 PCI-E 3.0 x16 M.2 Interface: 1 PCI-E 3.0 x4 and 1 SATA/PCI-E 3.0 x2 M.2 Form Factor: 2242/2280 M.2 Key: M-Key, B-Key U.2 Interface: 2 PCI-E 3.0 x4, 2 PCI-E 3.0 NVMe x4 Internal Ports		1 PCI-E 3.0 x8, 1 PCI-E 3.0 x16 M.2 Interface: 1 PCI-E 3.0 x4 and 1 SATA/PCI-E 3.0 x2 M.2 Form Factor: 2242/2280 M.2 Key: M-Key, B-Key U.2 Interface: 2 PCI-E 3.0 x4, 2 PCI-E 3.0 NVMe x4 Internal Ports	
Onboard RAID Controller	SoC controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10		SoC controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10		SoC controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10		SoC controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10	
Onboard LAN	Quad LAN with Intel® Ethernet Controller I350-AM4 Dual LAN with 10G SFP+ LAN via SoC Dual LAN with 10GbE-T		Quad LAN with Intel® Ethernet Controller I350-AM4 Dual LAN with 10G SFP+ LAN via SoC Dual LAN with 10GbE-T		Quad LAN with Intel® Ethernet Controller I350-AM4 Dual LAN with 10G SFP+ LAN via SoC Dual LAN with 10GbE-T		Quad LAN with Intel® Ethernet Controller I350-AM4 Dual LAN with 10G SFP+ LAN via SoC Dual LAN with 10GbE-T	
Onboard VGA	1 VGA D-Sub Connector port, ASPEED AST2500 BMC		1 VGA D-Sub Connector port, Aspeed AST2500 BMC		1 VGA D-Sub Connector port, Aspeed AST2500 BMC		1 VGA D-Sub Connector port, Aspeed AST2500 BMC	
USB Ports	2 USB 2.0 ports (2 via headers) 2 USB 3.2 Gen1 ports (2 rear)		2 USB 2.0 ports (2 headers, Type A)) 2 USB 3.0 ports (2 rear)		2 USB 2.0 ports (2 headers, Type A)) 2 USB 3.0 ports (2 rear)		2 USB 2.0 ports (2 headers, Type A)) 2 USB 3.0 ports (2 rear)	
Other Onboard I/O Devices	TPM 2.0 Header 1 COM Port (1 header)		TPM 2.0 Header 1 COM Port (1 header)		TPM 2.0 Header 1 COM Port (1 header)		TPM 2.0 Header 1 COM Port (1 header)	
Manageability	IPMI2.0, KVM with dedicated LAN, Watchdog		IPMI2.0, KVM with dedicated LAN, Watchdog		IPMI2.0, KVM with dedicated LAN, Watchdog		IPMI2.0, KVM with dedicated LAN, Watchdog	
PC Health Monitoring	+1.5V, +12V, +3.3V, +5V, +5V standby, 5 (4-pin), 5 -fan status, Monitors CPU voltages, System level control 6x 4-pin fan headers (up to 6 fans), 6 fans with tachometer status monitoring, Dual Cooling Zone, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors		+1.5V, +12V, +3.3V, +5V, +5V standby, 5 (4-pin), 5 -fan status, Monitors CPU voltages, System level control 6x 4-pin fan headers (up to 6 fans), 6 fans with tachometer status monitoring, Dual Cooling Zone, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors		+1.5V, +12V, +3.3V, +5V, +5V standby, 5 (4-pin), 5 -fan status, Monitors CPU voltages, System level control 6x 4-pin fan headers (up to 6 fans), 6 fans with tachometer status monitoring, Dual Cooling Zone, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors		+1.5V, +12V, +3.3V, +5V, +5V standby, 5 (4-pin), 5 -fan status, Monitors CPU voltages, System level control 6x 4-pin fan headers (up to 6 fans), 6 fans with tachometer status monitoring, Dual Cooling Zone, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	
Thermal Control								
Other Features	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, CPU thermal trip support for processor protection, Dual Cooling Zones, Intel® QuickAssist Technology , M.2 NGFF connector, RoHS		12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, CPU thermal trip support for processor protection, Dual Cooling Zones, Intel® QuickAssist Technology , M.2 NGFF connector, RoHS		12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, CPU thermal trip support for processor protection, Dual Cooling Zones, Intel® QuickAssist Technology , M.2 NGFF connector, RoHS		12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, RoHS	
BIOS	UEFI 128Mb		UEFI 128Mb		UEFI 128Mb		UEFI 128Mb	

* Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

High Performance
Dual 10GbE, IPMI

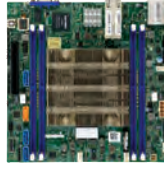
Dual 10GbBase-T,
IPMI

High Performance
Dual 10GbE, IPMI

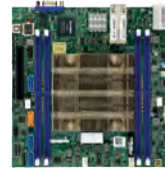
Dual 10GbBase-T,
IPMI



(Mini-ITX, 6.75"W x 6.75"H)



(Mini-ITX, 6.75"W x 6.75"H)



(Mini-ITX, 6.75"W x 6.75"H)



(Mini-ITX, 6.75"W x 6.75"H)

MODEL	X11SDV-4C-TLN2F	X11SDV-8C-TLN2F	X11SDV-12C-TLN2F	X11SDV-16C-TLN2F
Processor†	Intel® Xeon® Processor D-2123IT, CPU TDP support up to 60W TDP	Intel® Xeon® Processor D-2141I, CPU TDP support up to 65W TDP	Intel® Xeon® Processor D-2166NT, CPU TDP support up to 85W TDP	Intel® Xeon® Processor D-2183IT, CPU TDP support up to 100W TDP
Chipset	System on Chip	System on Chip	System on Chip	System on Chip
Form Factor	Mini-ITX, 6.75" x 6.75" (17.15cm x 17.15cm)	Mini-ITX, 6.75" x 6.75" (17.15cm x 17.15cm)	Mini-ITX, 6.75" x 6.75" (17.15cm x 17.15cm)	Mini-ITX, 6.75" x 6.75" (17.15cm x 17.15cm)
Optimized Chassis	Mini 1U: SCe300 SC504-203B SC505-203B	Mini 1U: SCe300 SC504-203B SC505-203B	Mini 1U: SC515-R407 SC514-R407W SC512F-260	Mini 1U: SC515-R407 SC514-R407W SC512F-260
Memory Capacity & Slots*	Up to 256GB Registered ECC RDIMM, DDR4-2400 MHz; Up to 512GB ECC LRDIMM, DDR4-2400 MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2133 MHz; Up to 512GB ECC LRDIMM, DDR4-2133 MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2133 MHz; Up to 512GB ECC LRDIMM, DDR4-2133 MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2400 MHz; Up to 512GB ECC LRDIMM, DDR4-2400 MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x8 1 PCI-E 3.0 x4 NVMe Internal Port via OCuLink	1 PCI-E 3.0 x8 1 PCI-E 3.0 x4 NVMe Internal Port via OCuLink	1 PCI-E 3.0 x8 1 PCI-E 3.0 x4 NVMe Internal Port via OCuLink	1 PCI-E 3.0 x8 1 PCI-E 3.0 x4 NVMe Internal Port via OCuLink
Onboard RAID Controller	SoC controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10 4 SATA ports via OCuLink (or PCI-E 3.0 x4 for NVMe)	SoC controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10 4 SATA ports via OCuLink (or PCI-E 3.0 x4 for NVMe)	SoC controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10 4 SATA ports via OCuLink (or PCI-E 3.0 x4 for NVMe)	SoC controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10 4 SATA ports via OCuLink (or PCI-E 3.0 x4 for NVMe)
Onboard LAN	Dual LAN with 10GbBase-T with Intel® X557	Dual LAN with 10GbBase-T with Intel® X557	Dual LAN with 10GbBase-T with Intel® X557	Dual LAN with 10GbBase-T with Intel® X557
Onboard VGA	1 VGA port, Aspeed AST2500 BMC	1 VGA port, Aspeed AST2500 BMC	1 VGA port, Aspeed AST2500 BMC	1 VGA port, Aspeed AST2500 BMC
USB Ports	2 USB 2.0 ports (2 headers, Type A)) 2 USB 3.0 ports (2 rear)	2 USB 2.0 ports (2 headers, Type A)) 2 USB 3.0 ports (2 rear)	2 USB 2.0 ports (2 headers, Type A)) 2 USB 3.0 ports (2 rear)	2 USB 2.0 ports (2 headers, Type A)) 2 USB 3.0 ports (2 rear)
Other Onboard I/O Devices	TPM Header	TPM Header	TPM Header	TPM Header
Manageability	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.5V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3 -fan status, Memory Voltages, Monitors CPU voltages, Supports system management utility, VBAT	+1.5V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3 -fan status, Memory Voltages, Monitors CPU voltages, Supports system management utility, VBAT	+1.5V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3 -fan status, Memory Voltages, Monitors CPU voltages, Supports system management utility, VBAT	+1.5V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3 -fan status, Memory Voltages, Monitors CPU voltages, Supports system management utility, VBAT
Thermal Control	3x 4-pin fan headers (up to 3 fans), 3 fans with tachometer monitoring, Dual Cooling Zone, Fan speed control, Pulse Width Modulated (PWM) fan connectors, Support 3-pin fans (w/o speed control)	3x 4-pin fan headers (up to 3 fans), 3 fans with tachometer monitoring, Dual Cooling Zone, Fan speed control, Pulse Width Modulated (PWM) fan connectors, Support 3-pin fans (w/o speed control)	3x 4-pin fan headers (up to 3 fans), 3 fans with tachometer monitoring, Dual Cooling Zone, Fan speed control, Pulse Width Modulated (PWM) fan connectors, Support 3-pin fans (w/o speed control)	3x 4-pin fan headers (up to 3 fans), 3 fans with tachometer monitoring, Dual Cooling Zone, Fan speed control, Pulse Width Modulated (PWM) fan connectors, Support 3-pin fans (w/o speed control)
Other Features	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Dual Cooling Zones, Node Manager Support, RoHS, UID	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Dual Cooling Zones, Node Manager Support, RoHS, UID	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Dual Cooling Zones, Node Manager Support, RoHS, UID	12V DC or ATX Power Source, 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Dual Cooling Zones, Node Manager Support, RoHS, UID
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

† Supermicro chassis required for optimal functionality and performance.
For detailed memory configurations please refer to Supermicro website.

EMBEDDED

Low Power



(3.5" SBC, 5.7"W x 4.0"H)

Low Power



(3.5" SBC, 5.7"W x 4.0"H)

Low Power



(3.5" SBC, 5.7"W x 4.0"H)

MODEL	X11SSN-H X11SSN-H-WOHS	X11SSN-E X11SSN-E-WOHS	X11SSN-L X11SSN-L-WOHS
Processor*	7th Generation Intel® Core™ i7-7600U Processor. Single Socket FCBGA1356 supported, CPU TDP support up to 15W TDP	7th Generation Intel® Core™ i5-7300U Processor. Single Socket FCBGA1356 supported, CPU TDP support up to 15W TDP	7th Generation Intel® Core™ i3-7100U Processor. Single Socket FCBGA1356 supported, CPU TDP support up to 15W TDP
Chipset	System on Chip	System on Chip	System on Chip
Form Factor	3.5" SBC, 5.7" x 4.0" (14.6cm x 10.16cm)	3.5" SBC, 5.7" x 4.0" (14.6cm x 10.16cm)	3.5" SBC, 5.7" x 4.0" (14.6cm x 10.16cm)
Optimized Chassis	Embedded Compact Chassis: SuperChassis E102	Embedded Compact Chassis: SuperChassis E102	Embedded Compact Chassis: SuperChassis E102
Memory Capacity & Slots*	Up to 32GB Unbuffered non-ECC SO-DIMM, DDR4-2133 MHz, in 2 DIMM slots	Up to 32GB Unbuffered non-ECC SO-DIMM, DDR4-2133 MHz, in 2 DIMM slots	Up to 32GB Unbuffered non-ECC SO-DIMM, DDR4-2133 MHz, in 2 DIMM slots
Expansion Slots	1 Full size Mini-PCI-E with mSATA(USB 2.0 x1, PCI-E 3.0 x1, SATA 3.0 x1) M.2 Interface: SATA and PCI-E 3.0 x2 and USB 2.0 M.2 Form Factor: 2242, 2280, 3042 M.2 Key: B-Key M.2 2242/3042/2280 B-Key (USB 2.0 x1, PCI-E 3.0 x2, SATA 3.0 x1)	1 x Full size Mini-PCI-E with mSATA(USB 2.0 x1, PCI-E 3.0 x1, SATA 3.0 x1) M.2 Interface: SATA and PCI-E 3.0 x2 and USB 2.0 M.2 Form Factor: 2242, 2280, 3042 M.2 Key: B-Key M.2 2242/3042/2280 B-Key (USB 2.0 x1, PCI-E 3.0 x2, SATA 3.0 x1)	1 Full size Mini-PCI-E with mSATA (USB 2.0 x1, PCI-E 3.0 x1, SATA 3.0 x1) M.2 Interface: SATA and PCI-E 3.0 x2 and USB 2.0 M.2 Form Factor: 2242, 2280, 3042 M.2 Key: B-Key M.2 2242/3042/2280 B-Key (USB 2.0 x1, PCI-E 3.0 x2, SATA 3.0 x1)
Onboard RAID Controller	I-SATA1 (1x SATA 3.0 Port)	I-SATA1 (1x SATA 3.0 Port)	I-SATA1 (1x SATA 3.0 Port)
Onboard LAN	Single LAN with Intel® Ethernet Controller I210IT Single LAN with Intel® PHY I219LM LAN controller	Single LAN with Intel® PHY I219LM LAN controller Single LAN with Intel® Ethernet Controller I210IT	Single LAN with Intel® PHY I219LM LAN controller Single LAN with Intel® Ethernet Controller I210IT
Onboard VGA	1 DP (DisplayPort) port, 1 48-bit LVDS port, 1 HDMI port, Dual channel 48-bit LVDS(max. resolution up to 1920x1200@60Hz), HDMI 2.0 (max. resolution up to 4096x2160@60Hz), DP++ (max. resolution up to 4096x2304@60Hz), Intel® HD Graphics	1 DP (DisplayPort) port, 1 48-bit LVDS port, 1 HDMI port, Dual channel 48-bit LVDS(max. resolution up to 1920x1200@60Hz), HDMI 2.0 (max. resolution up to 4096x2160@60Hz), DP++ (max. resolution up to 4096x2304@60Hz), Intel® HD Graphics	1 DP (DisplayPort) port, 1 48-bit LVDS port, 1 HDMI port, Dual channel 48-bit LVDS(max. resolution up to 1920x1200@60Hz), HDMI 2.0 (max. resolution up to 4096x2160@60Hz), DP++ (max. resolution up to 4096x2304@60Hz), Intel® HD Graphics
USB Ports	4 USB 2.0 ports (4 headers, Type A)) 2 USB 3.0 ports (2 rear) 1 USB 3.1 ports ; 1 USB 3.0 OTG Header	4 USB 2.0 ports (4 headers, Type A)) 2 USB 3.0 ports (2 rear) 1 USB 3.1 ports ; 1 USB 3.0 OTG Header	4 USB 2.0 ports (4 headers, Type A)) 2 USB 3.0 ports (2 rear) 1 USB 3.1 ports ; 1 USB 3.0 OTG Header
Other Onboard I/O Devices	ALC 888S HD Audio TPM 2.0 Chip 4 COM Ports (4 headers); (2 x RS232, 2 RS232/422/485, RS-485 supports Auto flow control) 1 HD Audio header Mic-in/Headphone-out (Audio only support at 0~60C) 1 8-bit GPIO header 1 SMBus header 1 Speaker header 1 System Fan -WOHS: w/o Heatsink	ALC 888S HD Audio TPM 2.0 Chip 4 COM Ports (4 headers); (2 x RS232, 2 RS232/422/485, RS-485 supports Auto flow control) 1 HD Audio header Mic-in/Headphone-out (Audio only support at 0~60C) 1 8-bit GPIO header 1 SMBus header 1 Speaker header 1 System Fan -WOHS: w/o Heatsink	ALC 888S HD Audio 4 COM Ports (4 headers); (2 x RS232, 2 RS232/422/485, RS-485 supports Auto flow control) 1 HD Audio header Mic-in/Headphone-out 1 8-bit GPIO header 1 SMBus header 1 Speaker header 1 System Fan -WOHS: w/o Heatsink
Manageability	AMT, SuperDoctor® 5, vPro, Watchdog	SuperDoctor® 5, vPro, Watchdog	SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, 1.2V (VDIMM), 3.3V standby, Monitors for CPU Cores, System level control, System temperature, VBAT	+12V, +3.3V, +5V, 1.2V (VDIMM), 3.3V standby, Monitors for CPU Cores, System level control, System temperature, VBAT	+12V, +3.3V, +5V, 1.2V (VDIMM), 3.3V standby, Monitors for CPU Cores, System level control, System temperature, VBAT
Thermal Control	1x 4-pin fan header (up to 1 fan), Fan speed control, Low noise fan speed control, PWM fan speed control, System level control, Thermal control tachometer fan connectors	1x 4-pin fan header (up to 1 fan), Fan speed control, Low noise fan speed control, PWM fan speed control, System level control, Thermal control tachometer fan connectors	1x 4-pin fan header (up to 1 fan), Fan speed control, Low noise fan speed control, PWM fan speed control, System level control, Thermal control tachometer fan connectors
Other Features	4-pin 12v R/A Type DC Power Connector, ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	4-pin 12v R/A Type DC Power Connector, ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	4-pin 12v R/A Type DC Power Connector, ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

* Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

vPro AMT
Desktop



(uATX 9.6\"W x 9.6\"H)

Desktop



(uATX 9.6\"W x 9.6\"H)

vPro AMT



(Mini-ITX 6.7\"W x 6.7\"H)

vPro AMT



(Mini-ITX 6.7\"W x 6.7\"H)

MODEL	X11SSQ	X11SSQ-L	X11SSV-Q	X11SSV-LVDS
Processor†	7th/6th Generation Intel® Core™ Processors, Intel® Celeron® Processor, Intel® Pentium® Processor, Single Socket H4 (LGA 1151) supported; CPU TDP support 95W	7th/6th Generation Intel® Core™ Processors, Intel® Celeron® Processor, Intel® Pentium® Processor, Single Socket H4 (LGA 1151) supported; CPU TDP support 91W	7th/6th Generation Intel® Core™ Processors, Intel® Celeron® Processor, Intel® Pentium® Processor, Single Socket H4 (LGA 1151) supported; CPU TDP support 91W	7th/6th Generation Intel® Core™ Processors, Intel® Celeron® Processor, Intel® Pentium® Processor, Single Socket H4 (LGA 1151) supported; CPU TDP support 91W
Chipset	Intel® Q170	Intel® H110	Intel® Q170 Express	Intel® Q170 Express
Form Factor	uATX 9.6\" x 9.6\"	uATX 9.6\" x 9.6\"	Mini-ITX, 6.7\" x 6.7\" (17.02cm x 17.02cm)	Mini-ITX, 6.7\" x 6.7\" (17.02cm x 17.02cm)
Optimized Chassis	● SC825MTQ-R700LPB ● SC823MTQ-R700LPB 2U Heatsink: SNK-P0046A4 ● SC731i-300B 2U Heatsink: SNK-P0046A4 ● SC842i-500B 2U Heatsink: SNK-P0046A4	● SC825MTQ-R700LPB ● SC823MTQ-R700LPB 2U Heatsink: SNK-P0046A4 ● SC731i-300B 2U Heatsink: SNK-P0046A4 ● SC842i-500B 2U Heatsink: SNK-P0046A4	● SC101i - SC101iF 1U Heatsink: SNK-P0049A4 ● SC721TQ-250B ● SC731i-300B 2U Heatsink: SNK-P0046A4	● SC101i - SC101iF 1U Heatsink: SNK-P0049A4 ● SC721TQ-250B ● SC731i-300B 2U Heatsink: SNK-P0046A4
Memory Capacity & Slots*	Up to 64GB Unbuffered Non-ECC UDIMM, DDR4-2133 MHz, in 4 DIMM slots	Up to 32GB Unbuffered Non-ECC UDIMM, DDR4-2133 MHz, in 2 DIMM slots	Up to 32GB Unbuffered non-ECC SO-DIMM, DDR4-2400MHz, in 2 DIMM slots	Up to 32GB Unbuffered non-ECC SO-DIMM, DDR4-2400MHz, in 2 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 2 PCI-E 3.0 x4 (open) 1 PCI-E 3.0 x1 M.2 PCI-E x2 M Key 2242/2260/2280	1 PCI-E 3.0 x16 1 PCI-E 2.0 x4 1 PCI-E 2.0 x1	1 PCI-E 3.0 x16 Mini-PCI-E with mSATA support, M.2 PCI-E 3.0 x4 with SATA support, M Key M.2 Form Factor: 2242, 2280	1 PCI-E 3.0 x16 Mini-PCI-E with mSATA support, M.2 PCI-E 3.0 x4 with SATA support, M Key M.2 Form Factor: 2242, 2280
Onboard RAID Controller	Intel® Q170 controller for 6 SATA3 (6Gb/s) ports; RAID 0,1,5,10;	Intel® H110 controller for 4 SATA3 (6Gb/s) ports	Intel® Q170 Express controller for 5 SATA3 (6 Gbps) ports; RAID 0,1,5,10 Intel RST	Intel® Q170 Express controller for 5 SATA3 (6 Gbps) ports; RAID 0,1,5,10 Intel RST
Onboard LAN	Dual 1GbE LAN with Intel® PHY i219LM & i210-AT	1GbE LAN with Intel® PHY i219LM	Single LAN with Intel® PHY i219LM LAN controller Single LAN with Intel® Ethernet Controller i210-AT	Single LAN with Intel® PHY i219LM LAN controller Single LAN with Intel® Ethernet Controller i210-AT
Onboard VGA	1 HDMI 1 DP (DisplayPort) 1 DVI-D, 1 eDP (Embedded DisplayPort) Intel® HD Graphics 3 Independent Displays	1 HDMI, 1 DP (DisplayPort), 1 DVI - D, Intel® HD Graphics 2 Independent Displays	1 HDMI port, 1 DP (DisplayPort) port, 1 DVI - I port, 3 Independent Displays, Intel® HD Graphics	1 HDMI port, 1 DP (DisplayPort) port, 1 LVDS port, 3 Independent Displays, Intel® HD Graphics
USB Ports	4 USB 3.0 ports (2 rear + 2 via header) 8 USB 2.0 ports (4 rear + 4 via headers)	4 USB 3.0 ports (2 rear + 2 via header) 6 USB 2.0 ports (2 rear + 4 via headers)	5 USB 2.0 ports (4 via headers, 1 Type A) 6 USB 3.2 Gen1 ports (4 rear + 2 via headers)	5 USB 2.0 ports (4 via headers, 1 Type A) 6 USB 3.2 Gen1 ports (4 rear + 2 via headers)
Other Onboard I/O Devices	1 Port SuperDOM ALC 888S HD Audio PS/2 Combo mouse and keyboard TPM Header 4 COM Ports (headers) Force On mode by jumper and AC recovery	1 Port SuperDOM ALC 888S HD Audio PS/2 Combo mouse and keyboard TPM 2.0 Header 2 COM Ports (2 headers) Force On mode by jumper and AC recovery	2 ports SuperDOM ALC 888S HD Audio TPM Header 2 COM Ports (2 rear) SGPIO Header, SMBus header, GPIO	2 ports SuperDOM ALC 888S HD Audio TPM Header 1 COM Port (1 header) SGPIO Header, SMBus header, GPIO
Manageability	AMT, NMI, SSM, SuperDoctor® 5 vPro, Watchdog	NMI, SSM, SuperDoctor® 5, Watchdog	AMT, NMI, SuperDoctor® 5, vPro, Watchdog	AMT, NMI, SuperDoctor® 5, vPro, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control	+12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 4 - fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+12V, +3.3V, +5V, +5V standby, 1.2V (VDIMM), 4 - fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT
Thermal Control	4 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	4 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors		
Other Features	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Intel® Smart Response Technology, M.2 NGFF connector, System level control, WOL, RST	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Intel® Smart Response Technology, WOL, RST	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel® Smart Response Technology, M.2 NGFF connector, RoHS, System level control, WOL	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel® Smart Response Technology, M.2 NGFF connector, RoHS, System level control, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

† Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

Quad 1GbE,
AMT, vPro, VDI



(Mini-ITX 6.7"W x 6.7"H)

Quad 1GbE,
AMT, vPro, VDI



(Mini-ITX 6.7"W x 6.7"H)

4-core mITX
6W SoC
Quad 1GbE/IPMI



(Mini-ITX 6.7"W x 6.7"H)

MODEL	X11SSV-M4	X11SSV-M4F	X11SBA-F X11SBA-LN4F
Processor†	Intel® Xeon® Processor E3-1515M v5 Single Socket FCBGA1440 supported; QPI up to 8.0GT/s; CPU TDP support 45W	Intel® Xeon® Processor E3-1585 v5 Single Socket FCBGA1440 supported; QPI up to 8.0GT/s; CPU TDP support 65W	Intel® Pentium® Processor N3700 Single Socket FCBGA1170 supported; CPU TDP support 6W
Chipset	Intel® CM236	Intel® C236	System on Chip
Form Factor	Mini-ITX 6.7" x 6.7"	Mini-ITX 6.7" x 6.7"	Mini-ITX 6.7" x 6.7"
Memory Capacity & Slots*	Up to 32GB Unbuffered ECC/non-ECC SO-DIMM, DDR4-2133 MHz, in 2 DIMM slots	Up to 32GB Unbuffered ECC/non-ECC SO-DIMM, DDR4-2133 MHz, in 2 DIMM slots	8GB Unbuffered non-ECC SO-DIMM, DDR3-1600 MHz, in 2 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 Mini PCI-E with mSATA support, M.2 PCI-E 3.0 x4 with SATA support, PCI-E 3.0 x16 slot can bifurcate into two x8s M Key 2242/2280	1 PCI-E 3.0 x16 Mini PCI-E with mSATA support, M.2 PCI-E 3.0 x4 with SATA support, PCI-E 3.0 x16 slot can bifurcate into two x8s M Key 2242/2280	1 PCI-E 2.0 x1 (in x8 slot) 1 Mini-PCI-E with mSATA support
Onboard RAID Controller	Intel® CM236 controller for 4 SATA3 (6Gb/s) ports; RAID 0,1,5,10; Intel® RSTe	Intel® C236 controller for 4 SATA3 (6Gb/s) ports; RAID 0,1,5,10; Intel® RSTe	SoC controller for 2 SATA3 (6Gb/s) ports
Onboard LAN	Single LAN with Intel® PHY I219LM LAN controller; Single LAN with Intel® Ethernet Controller I210-AT; Dual LAN with Intel® Ethernet Controller I350-AM2	Single LAN with Intel® PHY I219LM LAN controller; Single LAN with Intel® Ethernet Controller I210-AT; Dual LAN with Intel® Ethernet Controller I350-AM2	-F: Dual LAN with Intel® Ethernet Controller I210-AT; -LN4F: Quad LAN with Intel® Ethernet Controller I210-AT
Onboard VGA	1 HDMI, 1 DP (DisplayPort), 1 DVI-I 1 Intel® Iris Pro Graphics P580	1 DVI-A, Aspeed AST2400 BMC	1 HDMI, 1 DP (DisplayPort), 1 VGA via Aspeed AST2400 BMC
USB Ports	5 USB 2.0 ports (+ 4 via headers + 1 Type A) 4 USB 3.0 ports (4 rear)	5 USB 2.0 ports (+ 4 via headers + 1 Type A) 4 USB 3.0 ports (4 rear)	7 USB 2.0 ports (2 rear + 4 via headers + 1 Type A) 2 USB 3.0 ports (2 rear)
Other Onboard I/O Devices	2 ports SuperDOM ALC 888S HD Audio TPM 1.2 Header 1 COM Ports (1 rear) COM Port in RJ45 Socket	2 ports SuperDOM ALC 888S HD Audio TPM 1.2 Header 1 COM Ports (1 rear) COM Port in RJ45 Socket	1 Port SuperDOM ALC 888S HD Audio TPM Header 2 COM Ports (2 headers)
Manageability	IPMI 2.0 + KVM with shared LAN (-M4F only); SuperDoctor® 5, Watchdog; AMT, vPro (-M4 only)	IPMI 2.0 + KVM with shared LAN (-M4F only); SuperDoctor® 5, Watchdog; AMT, vPro (-M4 only)	IPMI 2.0 + KVM with dedicated LAN, NMI, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, 3 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control	+1.8V, +12V, +3.3V, +5V, +5V standby, 3 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Supports system management utility, System level control
Thermal Control	3 4-pin, Fan speed control, Pulse Width Modulated (PWM) fan connectors, PWM fan speed control, System level control, Thermal control tachometer fan connectors	3 4-pin, Fan speed control, Pulse Width Modulated (PWM) fan connectors, PWM fan speed control, System level control, Thermal control tachometer fan connectors	2 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors
Other Features	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Intel® Smart Response Technology, M.2 NGFF connector, RoHS, System level control, WOL	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Intel® Smart Response Technology, M.2 NGFF connector, RoHS, System level control, WOL	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, System level control, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

† Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

Optimized Chassis and Accessories

SC101i

Embedded Compact Chassis



- Support Mini-ITX (6.75" x 6.75") Motherboard
- 60~80W, 12V, DC-IN Power Adapter (optional)
- 1x 2.5" internal SAS/SATA drive bay
- 1x 6cm fan
- Power switch, 2x USB 2.0 Port, 2x Front Audio Jack
- Support Wall-mount and VESA-mount bracket
- WIFI antenna supported (optional)
- Dimensions: 7.68"W x 2.68"H x 7.68"D



SC101S

Mini-ITX chassis for motherboard support size of Mini-ITX 6.75" x 6.75"

- Slim & Space-saving 1U Mini-ITX Chassis Design
- Standard Mini-ITX MB form factor 6.7" x 6.7"
- 1x 2.5" internal HDD support (design for 9.5mm thickness HDD)
- 1x 4cm Cooling Fan
- VESA/Wall-mount ready

SC504-203B

9.8" depth, optimized for Mini-ITX Motherboard



- 200W **Gold Level** High-efficiency Power Supply
- Rear I/O Ports
- 1x 3.5" Internal Drive Bay with 1x Half-height, Half-length PCI; or, 2x 3.5" Internal Drive Bay; or, 2x 2.5" Internal Drive Bay with 1x Full-height, Half-length PCI or, 4x 2.5" Internal Drive Bay
- Power Switch, Reset Button and 5x LED Indicators



SC721TQ-250B

Mini-Tower chassis for motherboard support size Mini-ITX 6.75" x 6.75"

- Compact Mini-Tower : 11"D x 8.27"W x 9.45"H
- Support wide range of Mini-ITX motherboard, from Intel® Atom™ Processor to Intel® Core™ i7 Processor
- 4x 3.5" hot-swap SATA HDD and 2x internal 2.5" SATA HDD
- One low profile expansion slot



Chassis \ MB	X11SSV-M4	X11SSV-M4F	X11SBA-F X11SBA-LN4F
Embedded Compact Chassis	● SC101iF		● SC101S ● SC101i ● SC101iF
1U		● SC504-203B ● SC505-203B	● SC504-203B ● SC505-203B
Mini-Tower / Mid-Tower	● SC721TQ-250B		● SC721TQ-250B

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 family.

● Most Optimized Chassis for SuperServer Configuration

* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

** OEM SKU

EMBEDDED

vPro AMT, IPMI
Dual 10GbE, 1U Optimized



(uATX 9.6"W x 9.6"H)

vPro AMT, IPMI
1U Optimized



(uATX 9.6"W x 9.6"H)

vPro AMT, IPMI
1U Optimized



(uATX 9.6"W x 9.6"H)

MODEL	X11SSZ-TLN4F	X11SSZ-F	X11SSZ-QF
Processor[†]	Intel® Xeon® Processor E3-1200 v6/v5 product family, 7th/6th Generation Intel® Core™ Processors, Intel® Celeron® Processor, Intel® Pentium® Processor, Single Socket H4 (LGA 1151) supported; CPU TDP support 95W	Intel® Xeon® Processor E3-1200 v6/v5 product family, 7th/th Generation Intel® Core™ Processors, Intel® Celeron® Processor, Intel® Pentium® Processor, Single Socket H4 (LGA 1151) supported; CPU TDP support 95W	7th/6th Generation Intel® Core™ Processors, Intel® Celeron® Processor, Intel® Pentium® Processor, Single Socket H4 (LGA 1151) supported; CPU TDP support 95W
Chipset	Intel® C236	Intel® C236	Intel® Q170
Form Factor	uATX 9.6" x 9.6"	uATX 9.6" x 9.6"	uATX 9.6" x 9.6"
Memory Capacity & Slots*	64GB Unbuffered ECC/Non-ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	64GB Unbuffered ECC/Non-ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	64GB Unbuffered Non-ECC UDIMM, DDR4-2133 MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 (in x16 slot) 2 PCI-E 3.0 x4 (in x8 slot)	1 PCI-E 3.0 x16 (in x16 slot) 2 PCI-E 3.0 x4 (in x8 slot)	1 PCI-E 3.0 x16 (in x16 slot) 2 PCI-E 3.0 x4 (in x8 slot)
Onboard RAID Controller	Intel® C236 controller for 4 SATA3 (6Gb/s) ports; RAID 0,1,5,10	Intel® C236 controller for 4 SATA3 (6Gb/s) ports; RAID 0,1,5,10	Intel® Q170 controller for 4 SATA3 (6Gb/s) ports; RAID 0,1,5,10
Onboard LAN	Dual 10GBase-T with X550; 1GbE LAN with Intel® PHY i219LM; 1GbE LAN with Intel® i210-AT	1GbE LAN with Intel® PHY i219LM; 1GbE LAN with Intel® i210-AT	1GbE LAN with Intel® PHY i219LM; 1GbE LAN with Intel® i210-AT
Onboard VGA	2 DP (DisplayPort) 1 DVI-I Intel® HD Graphics 3 Independent Displays 1 Aspeed AST2400 BMC VGA Port	2 DP (DisplayPort) 1 DVI-I Intel® HD Graphics 3 Independent Displays 1 Aspeed AST2400 BMC VGA Port	2 DP (DisplayPort) 1 DVI-I Intel® HD Graphics 3 Independent Displays 1 Aspeed AST2400 BMC VGA port
USB Ports	4 USB 3.0 ports (2 rear + 2 via header) 9 USB 2.0 ports (2 rear + 6 via headers + 1 Type A)	4 USB 3.0 ports (2 rear + 2 via header) 9 USB 2.0 ports (2 rear + 6 via headers + 1 Type A)	4 USB 3.0 ports (2 rear + 2 via header) 9 USB 2.0 ports (2 rear + 6 via headers + 1 Type A)
Other Onboard I/O Devices	1 Port SuperDOM 1 SATA DOM power connector ALC 888S HD Audio TPM Header 2 COM Ports (2 headers)	1 Port SuperDOM 1 SATA DOM power connector ALC 888S HD Audio TPM Header 2 COM Ports (2 headers)	1 Port SuperDOM 1 SATA DOM power connector ALC 888S HD Audio TPM Header 2 COM Ports (2 headers)
Manageability	IPMI 2.0 + KVM with dedicated LAN, AMT, NMI, SSM, SUM, SuperDoctor® 5 vPro, Watchdog	IPMI 2.0 + KVM with dedicated LAN, AMT, NMI, SSM, SUM, SuperDoctor® 5 vPro, Watchdog	IPMI 2.0 + KVM with dedicated LAN, AMT, NMI, SSM, SUM, SuperDoctor® 5 vPro, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control
Thermal Control	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors
Other Features	8-pin 12V DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Intel® Smart Response Technology, System level control, UID, VHD, WOL, RSTe	8-pin 12V DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Intel® Smart Response Technology, System level control, UID, VHD, WOL, RSTe	8-pin 12V DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Intel® Smart Response Technology, System level control, UID, WOL, RSTe
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

[†] Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

Quad 1GbE LAN
Quad Core

Quad 1GbE LAN
Quad Core



MODEL	A3SEV-4C-LN4	A3SEV-2C-LN4
Processor[†]	Intel® Atom® Processor x6425E. Socket FCBGA-1493 supported, CPU TDP supports Up to 12W TDP	Intel® Atom® Processor x6211E. Socket FCBGA-1493 supported, CPU TDP supports Up to 6W TDP
Chipset	System on Chip	System on Chip
Form Factor	Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)	Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)
Memory Capacity & Slots*	Up to 32GB Unbuffered ECC/non-ECC SO-DIMM, DDR4-3200MHz, in 2 DIMM slots	Up to 32GB Unbuffered ECC/non-ECC SO-DIMM, DDR4-3200MHz, in 2 DIMM slots
Expansion Slots	1 PCI-E 3.0 X2 (in x8 slot) 1 M.2 B-Key SATA/PCI-E 3.0 x2/USB 3.0, 3042/2280 1 M.2 E-Key PCI-E 3.0 x1/USB 2.0, 2230	1 PCI-E 3.0 X2 (in x8 slot) 1 M.2 B-Key SATA/PCI-E 3.0 x2/USB 3.0, 3042/2280 1 M.2 E-Key PCI-E 3.0 x1/USB 2.0, 2230
Onboard RAID Controller		
Onboard LAN	Single LAN with Intel® Ethernet Controller I210IT 3 LAN with 1GbE with Marvell® 88E1512	Single LAN with Intel® Ethernet Controller I210IT 3 LAN with 1GbE with Marvell® 88E1512
Onboard VGA	1 DP (DisplayPort) port, 1 HDMI port, 1 VGA port, 1 eDP (Embedded DisplayPort) port, Supports 3 independent displays, Intel® HD Graphics	1 DP (DisplayPort) port, 1 HDMI port, 1 VGA port, 1 eDP (Embedded DisplayPort) port, Supports 3 independent displays, Intel® HD Graphics
USB Ports	6 USB 2.0 ports (2 rear + 4 via headers) 2 USB 3.1 Gen2 ports (2 Rears Type A)	6 USB 2.0 ports (2 rear + 4 via headers) 2 USB 3.1 Gen2 ports (2 Rears Type A)
Other Onboard I/O Devices	1 Port SuperDOM ALC 8885 HD Audio TPM 2.0 Header & Chip both 4 COM Ports (4 headers); Supports RS232/422/485	1 Port SuperDOM ALC 8885 HD Audio TPM 2.0 Header & Chip both 4 COM Ports (4 headers); Supports RS232/422/485
Manageability	SuperDoctor® 5, Watchdog	SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Memory Voltages, System level control, System temperature, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Memory Voltages, System level control, System temperature, VBAT
Thermal Control		
Other Features	12V DC or ATX Power Source, 4-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, CPU thermal trip support for processor protection, RoHS, System level control, WOL	12V DC or ATX Power Source, 4-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, CPU thermal trip support for processor protection, RoHS, System level control, WOL
BIOS	AMI UEFI	AMI UEFI

[†] Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

4-Core Denverton
Eight 1GbE RJ45
Intel® Quick Assist Technology



(Flex ATX 9.0"W x 7.25"H)

8-Core Denverton
Eight 1GbE RJ45
Intel® Quick Assist Technology



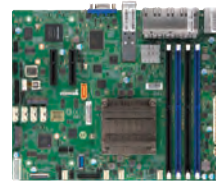
(Flex ATX 9.0"W x 7.25"H)

4-Core Denverton
Eight 1GbE RJ45
Dual 1GbE SFP
Intel® Quick Assist Technology



(Flex ATX 9.0"W x 7.25"H)

8-Core Denverton
Eight 1GbE RJ45
Dual 1GbE SFP
Intel® Quick Assist Technology



(Flex ATX 9.0"W x 7.25"H)

MODEL	A2SDV-4C-LN8F	A2SDV-8C-LN8F	A2SDV-4C-LN10PF	A2SDV-8C-LN10PF
Processor	Intel® Atom® Processor C3558. Single Socket FCBGA1310 supported, CPU TDP support up to 16W TDP	Intel® Atom® Processor C3758. Single Socket FCBGA1310 supported, CPU TDP support up to 25W TDP	Intel® Atom® Processor C3558. Single Socket FCBGA1310 supported, CPU TDP support up to 16W TDP	Intel® Atom® Processor C3758. Single Socket FCBGA1310 supported, CPU TDP support up to 25W TDP
Chipset	System on Chip	System on Chip	System on Chip	System on Chip
Form Factor	Flex ATX, 9" x 7.25" (22.86cm x 18.42cm)	Flex ATX, 9" x 7.25" (22.86cm x 18.42cm)	Flex ATX, 9" x 7.25" (22.86cm x 18.42cm)	Flex ATX, 9" x 7.25" (22.86cm x 18.42cm)
Optimized Chassis	Mini 1U: ● SCe300-LED SC504-203B SC505-203B	Mini 1U: ● SCe300-LED SC504-203B SC505-203B	Mini 1U: ● SCe300-LED SC504-203B SC505-203B	Mini 1U: ● SCe300-LED SC504-203B SC505-203B
Memory Capacity & Slots*	Up to 256GB Registered ECC RDIMM, DDR4-2133 MHz Or 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2133 MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2400 MHz Or 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2133 MHz Or 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2133 MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2400 MHz Or 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x2 (in x4 slot) Option for Slot 6 or Slot 7 M.2 Interface: 1 SATA/PCI-E 3.0 x2/ USB 3.0 M.2 Form Factor: 3042, 2280 M.2 Key: B-Key	1 PCI-E 3.0 x4 Option for Slot 6 or Slot 7 1 M.2 M-Key SATA/PCI-E 3.0 x2, 2242/2280 1 M.2 B-Key SATA/PCI-E 3.0 x2/USB 3.0, 3042/2280	1 PCI-E 3.0 up to x2 (in x4 slot) *Number of PCI-E lane (option for Slot 6 or Slot 7) is configurable in BIOS: 0 or 2. PCI-E expansion slot is disabled when number of SATA ports is set to 3. M.2 Interface: 1 SATA/PCI-E 3.0 x2/ USB 3.0 M.2 Form Factor: 3042, 2280 M.2 Key: B-Key	1 PCI-E 3.0 x4 Option for Slot 6 or Slot 7 1 M.2 M-Key SATA/PCI-E 3.0 x2, 2242/2280 1 M.2 B-Key SATA/PCI-E 3.0 x2/USB 3.0, 3042/2280
Onboard RAID Controller	SoC controller for 3 SATA3 (6 Gbps) ports;	SoC controller for 5 SATA3 (6 Gbps) ports;	Up to 3 SATA3(6 Gbps) ports via SoC. *Number of SATA ports is configurable in BIOS: 1 or 3. One SATA port is available when PCI-E x2 expansion slot is enabled.	SoC controller for 5 SATA3 (6 Gbps) ports;
Onboard LAN	Quad LAN with Intel® C3000 SoC Quad LAN with Intel® Ethernet Controller I350-AM4	Quad LAN with Intel® C3000 SoC Quad LAN with Intel® Ethernet Controller I350-AM4	Quad LAN with Intel® C3000 SoC Quad LAN with Intel® Ethernet Controller I350-AM4 Dual LAN with Intel® I210-IS 1G SFP	Quad LAN with Intel® C3000 SoC Quad LAN with Intel® Ethernet Controller I350-AM4 Dual LAN with Intel® I210-IS 1G SFP
Onboard VGA	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC
USB Ports	2 USB 2.0 ports (2 headers, Type A) 3 USB 3.0 ports (2 rear + 1 Type A)	2 USB 2.0 ports (2 headers, Type A) 3 USB 3.0 ports (2 rear + 1 Type A)	2 USB 2.0 ports (2 headers, Type A) 3 USB 3.0 ports (2 rear + 1 Type A)	2 USB 2.0 ports (2 headers, Type A) 3 USB 3.0 ports (2 rear + 1 Type A)
Other Onboard I/O Devices	TPM Header 1 COM Port (1 header)	TPM Header 1 COM Port (1 header)	TPM Header 1 COM Port (1 header)	TPM Header 1 COM Port (1 header)
Manageability	IPMI2.0, NMI, SuperDoctor® 5, Watchdog	IPMI2.0, NMI, SuperDoctor® 5, Watchdog	IPMI2.0, NMI, SuperDoctor® 5, Watchdog	IPMI2.0, NMI, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 5 -fan status, Chassis intrusion header, VBAT	+12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 5 -fan status, Chassis intrusion header, VBAT	+12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 5 -fan status, Chassis intrusion header, VBAT	+12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 5 -fan status, Chassis intrusion header, VBAT
Thermal Control	5x 4-pin fan headers (up to 5 fans), 5 fans with tachometer status monitoring, Dual Cooling Zone, Fan speed control	5x 4-pin fan headers (up to 5 fans), 5 fans with tachometer status monitoring, Dual Cooling Zone, Fan speed control	5x 4-pin fan headers (up to 5 fans), 5 fans with tachometer status monitoring, Dual Cooling Zone, Fan speed control	5x 4-pin fan headers (up to 5 fans), 5 fans with tachometer status monitoring, Dual Cooling Zone, Fan speed control
Other Features	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Dual Cooling Zones, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, UID	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Dual Cooling Zones, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, UID	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Dual Cooling Zones, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, UID	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Dual Cooling Zones, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, UID
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

* Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

16-Core Denverton
2 10GbBaseT, 2 10Gb SFP+
Intel® Quick Assist Technology
IPMI



(Mini-ITX, 6.7"W x 6.7"H)

16-Core Denverton
Quad 10GbE LAN
Intel® Quick Assist Technology
IPMI



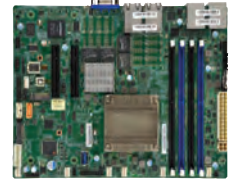
(Flex ATX 9.0"W x 7.25"H)

12-Core Denverton
Quad 10GbE LAN
Intel® Quick Assist Technology
IPMI



(Flex ATX 9.0"W x 7.25"H)

8-Core Denverton
Quad 10GbE LAN
Intel® Quick Assist Technology
IPMI



(Flex ATX 9.0"W x 7.25"H)

MODEL	A2SDi-16C-TP8F	A2SDV-16C-TLN5F	A2SDV-12C+TLN5F	A2SDV-8C-TLN5F
Processor[†]	Intel® Atom® Processor C3958. Single Socket FCBGA1310 supported, CPU TDP support up to 31W TDP	Intel® Atom® Processor C3958. Single Socket FCBGA1310 supported, CPU TDP support up to 31W TDP	Intel® Atom® Processor C3858. Single Socket FCBGA1310 supported, CPU TDP support up to 25W TDP	Intel® Atom® Processor C3708. Single Socket FCBGA1310 supported, CPU TDP support up to 17W TDP
Chipset	System on Chip	System on Chip	System on Chip	System on Chip
Form Factor	Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)	Flex ATX 9.0" x 7.25", 9" x 7.25" (22.86cm x 18.42cm)	Flex ATX 9.0" x 7.25", 9" x 7.25" (22.86cm x 18.42cm)	Flex ATX 9.0" x 7.25", 9" x 7.25" (22.86cm x 18.42cm)
Optimized Chassis	Mini 1U: e300 504-203B 505-203B	Mini 1U: e300 504-203B 505-203B	Mini 1U: e300 504-203B 505-203B	Mini 1U: e300 504-203B 505-203B
Memory Capacity & Slots*	Up to 64GB Unbuffered ECC/non-ECC SO-DIMM, DDR4-2400 MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2400 MHz Or 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2400 MHz Or 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2133 MHz Or 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2133 MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x4 1 miniPCI-E with mSATA supports (half card only) M.2 Interface: PCI-E 3.0 x4 and SATA M.2 Form Factor: 2242, 2280 M.2 Key: M-Key	1 PCI-E 3.0 x8 Option for Slot 6 or Slot 7 1 M-Key and 1 B-Key M-Key Form Factor: 2242/2280 M-Key Interface: PCI-E 3.0 x2/SATA B-Key Form Factor: 3042/2280 B-Key Interface: PCI-E 3.0 x2/SATA/USB3	1 PCI-E 3.0 x8 Option for Slot 6 or Slot 7 1 M-Key and 1 B-Key M-Key Form Factor: 2242/2280 M-Key Interface: PCI-E 3.0 x2/SATA B-Key Form Factor: 3042/2280 B-Key Interface: PCI-E 3.0 x2/SATA/USB3	1 PCI-E 3.0 x8 Option for Slot 6 or Slot 7 1 M-Key and 1 B-Key M-Key Form Factor: 2242/2280 M-Key Interface: PCI-E 3.0 x2/SATA B-Key Form Factor: 3042/2280 B-Key Interface: PCI-E 3.0 x2/SATA/USB3
Onboard RAID Controller	SoC controller for 4 SATA3 (6 Gbps) ports;	SoC controller for 2 SATA3 (6 Gbps) ports;	SoC controller for 2 SATA3 (6 Gbps) ports;	SoC controller for 2 SATA3 (6 Gbps) ports;
Onboard LAN	Quad LAN with Intel® C3000 SoC 2 10GbBaseT, 2 10Gb SFP+ Quad LAN with Intel® Ethernet Controller I350-AM4 1GbE	Quad LAN with 10GbBase-T with Intel® X557 Single LAN with Intel® i210 Gigabit Ethernet Controller	Quad LAN with 10GbBase-T with Intel® X557 Single LAN with Intel® i210 Gigabit Ethernet Controller	Quad LAN with 10GbBase-T with Intel® X557 Single LAN with Intel® i210 Gigabit Ethernet Controller
Onboard VGA	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC
USB Ports	4 USB 2.0 ports (4 headers, Type A) 2 USB 3.0 ports (2 rear)	2 USB 2.0 ports (2 headers, Type A) 5 USB 3.0 ports (4 rear + 1 Type A)	2 USB 2.0 ports (2 headers, Type A) 5 USB 3.0 ports (4 rear + 1 Type A)	2 USB 2.0 ports (2 headers, Type A) 5 USB 3.0 ports (4 rear + 1 Type A)
Other Onboard I/O Devices	1 Port SuperDOM TPM Header 1 COM Port (1 header)	TPM Header 1 COM Port (1 header) 1 COM Port in RJ45 Socket	TPM Header 1 COM Port (1 header) 1 COM Port in RJ45 Socket	TPM Header 1 COM Port (1 header) 1 COM Port in RJ45 Socket
Manageability	IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor® 5, Watchdog +1.8V, +12V, +5V, 1.05 (PCH), 1.2V (VDIMM), 4-fan status, 4 fans with tachometer monitoring, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, System temperature, VBAT, VCGI 4x 4-pin fan headers (up to 4 fans), 4 fans with tachometer monitoring, Dual Cooling Zone, Fan speed control, Overheat LED indication, Pulse Width Modulated (PWM) fan connectors, Status monitoring for speed control, Support 3-pin fans (w/o speed control), System level control, Thermal control tachometer fan connectors	IPMI2.0, NMI, SuperDoctor® 5, Watchdog +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 6-fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, System temperature, VBAT	IPMI2.0, NMI, SuperDoctor® 5, Watchdog +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 6-fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, System temperature, VBAT	IPMI2.0, NMI, SuperDoctor® 5, Watchdog +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 6-fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, System temperature, VBAT
PC Health Monitoring				
Thermal Control				
Other Features	12V DC or ATX Power Source, 4-pin 12v DC power connector, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Innovation Engine, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, SDDC, System level control, UID, WOL	12V DC or ATX Power Source, 4-pin 12v DC power connector, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Innovation Engine, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, SDDC, System level control, UID, WOL	12V DC or ATX Power Source, 4-pin 12v DC power connector, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Innovation Engine, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, SDDC, System level control, UID, WOL	12V DC or ATX Power Source, 4-pin 12v DC power connector, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Innovation Engine, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, SDDC, System level control, UID, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

[†] Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

Server Building Block Solutions - June 2021

EMBEDDED



(Pico-ITX 2.5" SBC, 4"H x 2.83"H)



(Pico-ITX 2.5" SBC, 3.9"H x 2.8"H)



(Pico-ITX 2.5" SBC, 4"H x 2.83"H)

MODEL	A2SAP-H	A2SAP-L	A2SAP-E
Processor[†]	Intel® Atom® Processor E3940. Single Socket FCBGA1296 supported, CPU TDP support up to 9.5W TDP	Intel® Atom® Processor E3930. Single Socket FCBGA1296 supported, CPU TDP support up to 6.5W TDP	Intel® Atom® Processor E3940. Single Socket FCBGA1296 supported, CPU TDP support up to 9.5W TDP
Chipset	System on Chip	System on Chip	System on Chip
Form Factor	Pico-ITX 2.5" SBC, 4" x 2.83" (10.16cm x 7.19cm)	Pico-ITX 2.5" SBC, 3.9" x 2.8" (9.91cm x 7.11cm)	Pico-ITX 2.5" SBC, 4" x 2.83" (10.16cm x 7.19cm)
Optimized Chassis	Mini 1U: SCE50	Mini 1U: SCE50	Mini 1U: SCE50
Memory Capacity & Slots*	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3-1866 MHz, in 1 DIMM slot	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3-1866 MHz, in 1 DIMM slot	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3-1866 MHz, in 1 DIMM slot
Expansion Slots	1 Half size Mini-PCI-E (USB 2.0 x1, PCI-E 2.0 x1) 1 EI/O (1 DP/HDMI, 2 PCI-E x1, 2 USB 2.0, LPC, SATA3, SMBus, 12Vsb 2A, 5Vsb 2.8A) M.2 Interface: SATA and PCI-E 2.0 x1 and USB 2.0 M.2 Form Factor: 2242, 3042 M.2 Key: B-Key 1 M.2 2242/3042 B-Key (USB 2.0 x1, PCI-E 2.0 x1, SATA 3.0 x1)	1 Half size Mini-PCI-E (USB 2.0 x1, PCI-E 2.0 x1) 1 EI/O (1 DP/HDMI, 2 PCI-E x1, 2 USB 2.0, LPC, SMBus, 12Vsb 2A, 5Vsb 2.8A) (Note:A2SAP-E/-L does NOT support SATA signal) M.2 Interface: SATA and PCI-E 2.0 x1 and USB 2.0 M.2 Form Factor: 3042, 2242 M.2 Key: B-Key 1 M.2 2242/3042 B-Key (USB 2.0 x1, PCI-E 2.0 x1, SATA 3.0 x1)	1 Half size Mini-PCI-E (USB 2.0 x1, PCI-E 2.0 x1) 1 EI/O (1 DP/HDMI, 2 PCI-E x1, 2 USB 2.0, LPC, SATA3, SMBus, 12Vsb 2A, 5Vsb 2.8A) (Note:A2SAP-E/-L does NOT support SATA signal) M.2 Interface: SATA and PCI-E 2.0 x1 and USB 2.0 M.2 Form Factor: 3042, 2242 M.2 Key: B-Key 1 M.2 2242/3042 B-Key (USB 2.0 x1, PCI-E 2.0 x1, SATA 3.0 x1)
Onboard RAID Controller	SoC controller for 1 SATA3 (6 Gbps) ports;	SoC controller for 1 SATA3 (6 Gbps) ports;	SoC controller for 1 SATA3 (6 Gbps) ports;
Onboard LAN	Dual LAN with Intel® Ethernet Controller I210IT	Dual LAN with Intel® Ethernet Controller I210IT	Dual LAN with Intel® Ethernet Controller I210IT
Onboard VGA	1 HDMI port, 1 48-bit LVDS port, Dual channel 48-bit LVDS(max. resolution up to 1920x1200@60Hz), HDMI(max. resolution up to 3840x2160@30Hz), Intel® HD Graphics	1 LVDS port, 1 HDMI port, Dual channel 48-bit LVDS(max. resolution up to 1920x1200@60Hz), HDMI(max. resolution up to 3840x2160@30Hz), Intel® HD Graphics	1 LVDS port, 1 HDMI port, Dual channel 48-bit LVDS(max. resolution up to 1920x1200@60Hz), HDMI(max. resolution up to 3840x2160@30Hz), Intel® HD Graphics
USB Ports	2 USB 3.0 ports (2 rear)	2 USB 2.0 ports (2 headers, Type A)) 2 USB 3.0 ports (2 rear)	2 USB 2.0 ports (2 headers, Type A)) 2 USB 3.0 ports (2 rear)
Other Onboard I/O Devices	ALC 888S HD Audio 32 pin Connector A (2x16-Pin, 2.0mm pitch):2 RS232/422/485, HD AUDIO Mic-in /Headphone-out (Note:Audio only support 0~60C) 34 pin Connector B (2x17-Pin, 2.0mm pitch):Power/Reset button, HDD/Power LED, 8-bit GPIO, 2 USB 2.0 1 x SMBus and 5V/1A SATA Power box header 1 x 12V DC Jack power input connector	ALC 888S HD Audio 2 COM Ports (2 headers); RS232/422/485 1 HD Audio header (Mic-in/Headphone-out) (Note: Audio only support 0C~60C) 1 8-bit GPIO header 1 SMBus/5V SATA Power box header 1 2x4-Pin 12V DC-IN power input box header(2.0mm pitch) 1 EI/O (1 DP/HDMI, 2 PCI-E x1, 2 USB 2.0, LPC, SMBus, 12Vsb 2A, 5Vsb 2.8A) (Note:A2SAP-E/-L does NOT support SATA signal)	ALC 888S HD Audio 2 COM Ports (2 headers); 2 RS232/422/485 1 HD Audio header (Mic-in/Headphone-out) (Note:Audio only support 0~60C) 1 8-bit GPIO header 1 SMBus and 5V/1A SATA Power box header 1 2x4-Pin 12V DC-IN power input box header (2.0mm pitch) 1 EI/O (1 DP/HDMI, 2 PCI-E x1, 2 USB 2.0, LPC, SMBus, 12Vsb 2A, 5Vsb 2.8A)(Note:A2SAP-E/-L does NOT support SATA signal)
Manageability	SuperDoctor® 5, Watchdog	SuperDoctor® 5, Watchdog	SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.35V, +12V, +3.3V, 3.3V standby, Memory Voltages, System level control, VBAT, VCGI	+1.35V, +12V, +3.3V, 3.3V standby, Memory Voltages, System level control, System temperature, VBAT, VCGI	+1.35V, +12V, +3.3V, 3.3V standby, Memory Voltages, System level control, System temperature, VBAT, VCGI
Thermal Control	N/A	N/A	N/A
Other Features	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

[†] Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

16-Core Denverton
Quad 1GbE LAN
IPMI



(Mini-ITX 6.7"W x 6.7"H)

12-Core Denverton
Intel® Quick Assist Technology
Quad 1GbE LAN
IPMI



(Mini-ITX 6.7"W x 6.7"H)

8-Core Denverton
Intel® Quick Assist Technology
Quad 1GbE LAN
IPMI



(Mini-ITX 6.7"W x 6.7"H)

4-Core Denverton
Quad 1GbE LAN
IPMI



(Mini-ITX 6.7"W x 6.7"H)

2-Core Denverton
Quad 1GbE LAN
IPMI



(Mini-ITX 6.7"W x 6.7"H)

MODEL	A25Di-16C-HLN4F	A25Di-12C-HLN4F	A25Di-8C+-HLN4F	A25Di-4C-HLN4F	A25Di-2C-HLN4F
Processor†	Intel® Atom® Processor C3955. Single Socket FCBGA1310 supported, CPU TDP support up to 32W TDP	Intel® Atom® Processor C3858. Single Socket FCBGA1310 supported, CPU TDP support up to 25W TDP	Intel® Atom® Processor C3758. Single Socket FCBGA1310 supported, CPU TDP support up to 25W TDP	Intel® Atom® Processor C3558. Single Socket FCBGA1310 supported, CPU TDP support up to 16W TDP	Intel® Atom® Processor C3338. Single Socket FCBGA1310 supported, CPU TDP support up to 9W TDP
Chipset	System on Chip	System on Chip	System on Chip	System on Chip	System on Chip
Form Factor	Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)	Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)	Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)	Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)	Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)
Optimized Chassis	SCe300 SC504-203B SC505-203B	SCe300 SC504-203B SC505-203B	SCe300 SC504-203B SC505-203B	SC101F SC300 SCe300LED	SC504-203B SC505-203B SC721TQ-250B
Memory Capacity & Slots*	Up to 256GB Registered ECC RDIMM, DDR4-2400 MHz Or 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2400 MHz Or 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2400 MHz Or 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	Up to 256GB Registered ECC RDIMM, DDR4-2133 MHz Or 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2133 MHz, in 4 DIMM slots	Up to 128GB Registered ECC RDIMM, DDR4-1866 MHz Or 32GB Unbuffered ECC/non-ECC UDIMM, DDR4-1866 MHz, in 2 DIMM slots
Expansion Slots	1 PCI-E 3.0 x4 M.2 Interface: PCI-E 3.0 x2 and SATA M.2 Form Factor: 2242, 2280 M.2 Key: M-Key	1 PCI-E 3.0 x4 M.2 Interface: PCI-E 3.0 x2 and SATA M.2 Form Factor: 2242, 2280 M.2 Key: M-Key	1 PCI-E 3.0 x4 M.2 Interface: PCI-E 3.0 x2 and SATA M.2 Form Factor: 2242, 2280 M.2 Key: M-Key	1 PCI-E 3.0 up to x4 (in x4 slot) *Number of PCI-E lane is configurable via BIOS setup: 0, 2, or 4. Total combined PCI-E lanes and SATA ports is up to 8. M.2 Interface: PCI-E 3.0 x2 and SATA M.2 Form Factor: 2242, 2280 M.2 Key: M-Key	1 PCI-E 3.0 up to x4 (in x4 slot) *Number of PCI-E lane is configurable via BIOS setup: 0, 2, or 4. Total combined PCI-E lanes and SATA ports is up to 8.
Onboard RAID Controller	SoC controller for 12 SATA3 (6 Gbps) ports;	SoC controller for 12 SATA3 (6 Gbps) ports;	SoC controller for 12 SATA3 (6 Gbps) ports;	SoC. *Number of SATA ports is configurable via BIOS setup: 4, 6, or 8. Total combined PCI-E lanes and SATA ports is up to 8.	Up to 8 SATA3(6 Gbps) ports via SoC. *Number of SATA ports is configurable via BIOS setup: 4, 6, or 8. Total combined PCI-E lanes and SATA ports is up to 8.
Onboard LAN	Quad LAN with Intel® C3000 SoC 1GbE	Quad LAN with Intel® C3000 SoC 1GbE	Quad LAN with Intel® C3000 SoC 1GbE	Quad LAN with Intel® C3000 SoC 1GbE	Quad LAN with Intel® C3000 SoC 1GbE
Onboard VGA	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC	1 VGA port, Aspeed AST2400 BMC
USB Ports	4 USB 2.0 ports (2 rear + 2 headers) 1 USB 3.0 ports (+ 1 Type A) 1 Port SuperDOM	4 USB 2.0 ports (2 rear + 2 headers) 1 USB 3.0 ports (+ 1 Type A) 1 Port SuperDOM	4 USB 2.0 ports (2 rear + 2 headers) 1 USB 3.0 ports (+ 1 Type A) 1 Port SuperDOM	4 USB 2.0 ports (2 rear + 2 headers) 1 USB 3.0 ports (+ 1 Type A) 1 Port SuperDOM	4 USB 2.0 ports (2 rear + 2 headers) 1 USB 3.0 ports (+ 1 Type A) 1 Port SuperDOM
Other Onboard I/O Devices	TPM Header 1 COM Port (1 header)	TPM Header 1 COM Port (1 header)	TPM Header 1 COM Port (1 header)	TPM Header 1 COM Port (1 header)	TPM Header 1 COM Port (1 header)
Manageability	IPMI2.0, KVM with dedicated LAN, NMI, SuperDoctor® 5, Watchdog +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 4 -fan status, 4 fans with tachometer monitoring, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, System temperature, VBAT	IPMI2.0, KVM with dedicated LAN, NMI, SuperDoctor® 5, Watchdog +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 4 -fan status, 4 fans with tachometer monitoring, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, System temperature, VBAT	IPMI2.0, KVM with dedicated LAN, NMI, SuperDoctor® 5, Watchdog +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 4 -fan status, 4 fans with tachometer monitoring, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, System temperature, VBAT	IPMI2.0, KVM with dedicated LAN, NMI, SuperDoctor® 5, Watchdog +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 4 -fan status, 4 fans with tachometer monitoring, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, System temperature, VBAT	IPMI2.0, KVM with dedicated LAN, NMI, SuperDoctor® 5, Watchdog +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 4 -fan status, 4 fans with tachometer monitoring, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, System temperature, VBAT
PC Health Monitoring	4x 4-pin fan headers (up to 4 fans), 4 fans with tachometer monitoring, Dual Cooling Zone, Fan speed control, Pulse Width Modulated (PWM) fan connectors, Status monitoring for speed control, Support 3-pin fans (w/o speed control), System level control, Thermal control tachometer fan connectors	4x 4-pin fan headers (up to 4 fans), 4 fans with tachometer monitoring, Dual Cooling Zone, Fan speed control, Pulse Width Modulated (PWM) fan connectors, Status monitoring for speed control, Support 3-pin fans (w/o speed control), System level control, Thermal control tachometer fan connectors	4x 4-pin fan headers (up to 4 fans), 4 fans with tachometer monitoring, Dual Cooling Zone, Fan speed control, Pulse Width Modulated (PWM) fan connectors, Status monitoring for speed control, Support 3-pin fans (w/o speed control), System level control, Thermal control tachometer fan connectors	4x 4-pin fan headers (up to 4 fans), 4 fans with tachometer monitoring, Dual Cooling Zone, Fan speed control, Pulse Width Modulated (PWM) fan connectors, Status monitoring for speed control, Support 3-pin fans (w/o speed control), System level control, Thermal control tachometer fan connectors	4x 4-pin fan headers (up to 4 fans), 4 fans with tachometer monitoring, Dual Cooling Zone, Fan speed control, Pulse Width Modulated (PWM) fan connectors, Status monitoring for speed control, Support 3-pin fans (w/o speed control), System level control, Thermal control tachometer fan connectors
Thermal Control	12V DC or ATX Power Source, 4-pin 12v DC power connector, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Innovation Engine, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, SDDC, System level control, UID, WOL	12V DC or ATX Power Source, 4-pin 12v DC power connector, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Innovation Engine, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, SDDC, System level control, UID, WOL	12V DC or ATX Power Source, 4-pin 12v DC power connector, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Innovation Engine, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, SDDC, System level control, UID, WOL	12V DC or ATX Power Source, 4-pin 12v DC power connector, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Innovation Engine, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, SDDC, System level control, UID, WOL	12V DC or ATX Power Source, 4-pin 12v DC power connector, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Innovation Engine, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, SDDC, System level control, UID, WOL
Other Features	12V DC or ATX Power Source, 4-pin 12v DC power connector, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Innovation Engine, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, SDDC, System level control, UID, WOL	12V DC or ATX Power Source, 4-pin 12v DC power connector, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Innovation Engine, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, SDDC, System level control, UID, WOL	12V DC or ATX Power Source, 4-pin 12v DC power connector, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Innovation Engine, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, SDDC, System level control, UID, WOL	12V DC or ATX Power Source, 4-pin 12v DC power connector, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Innovation Engine, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, SDDC, System level control, UID, WOL	12V DC or ATX Power Source, 4-pin 12v DC power connector, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Innovation Engine, Intel® QuickAssist Technology, M.2 NGFF connector, RoHS, SDDC, System level control, UID, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

* Supermicro chassis required for optimal functionality and performance.
* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

Embedded



(Mini-ITX 6.7"W x 6.7"H)

Embedded



(Mini-ITX 6.7"W x 6.7"H)

Embedded



(Mini-ITX 6.7"W x 6.7"H)

Embedded



(Mini-ITX 6.7"W x 6.7"H)

MODEL	A2SAV	A2SAV-L	A2SAV-2C-L	X11SAA
Processor[†]	Intel® Atom™ Processor E3940. Single Socket FCBGA1296 supported, CPU TDP support up to 9W TDP	Intel® Atom™ Processor E3940. Single Socket FCBGA1296 supported, CPU TDP support up to 9W TDP	Intel® Atom™ Processor E3930. Socket FCBGA1296 supported	Intel® Pentium™ Processor N4200. Single Socket FCBGA1296 supported, CPU TDP support up to 6W TDP
Chipset	System on Chip	System on Chip	System on Chip	System on Chip
Form Factor	Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)	Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)	Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)	Mini-ITX, 6.7" x 6.7" (17.02cm x 17.02cm)
Optimized Chassis	● SC101S ● SC101i ● SC101iF SC504-203B SC505-203B ● SC721TQ-250B	● SC101S ● SC101i ● SC101iF SC504-203B SC505-203B ● SC721TQ-250B	● SC101S ● SC101i ● SC101iF SC504-203B SC505-203B ● SC721TQ-250B	● SC101S ● SC101i ● SC101iF SC504-203B SC505-203B ● SC721TQ-250B
Memory Capacity & Slots*	Up to , DDR3-1866 MHz, in 1 DIMM slot Up to 8GB 1866 MHz DDR3L Non-ECC SO-DIMM in 1 socket	Up to , DDR3-1866 MHz, in 1 DIMM slot Up to 8GB 1866 MHz DDR3L Non-ECC SO-DIMM in 1 socket	Up to 8GB 1866 MHz DDR3L Non-ECC SO-DIMM in 1 socket	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3-1866 MHz, in 1 DIMM slot
Expansion Slots	1 PCI-E 2.0 x2 (in x8 slot) 1x Mini-PCI-E with mSATA M.2 Form Factor: 2242, 2280	1 PCI-E 2.0 x2 (in x8 slot) M.2 Form Factor: 2242, 2280	1 PCI-E 2.0 x2 (in x8 slot) M.2 Form Factor: 2242, 2280	1 PCI-E 2.0 x2 (in x8 slot) 1x Mini-PCI-E with mSATA M.2 Interface: PCI-E 2.0 x2 and SATA M.2 Form Factor: 2242, 2280 M.2 Key: M-Key
Onboard RAID Controller	Marvel 88SE9230 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,10 SoC controller for 2 SATA3 (6 Gbps) ports;	SoC controller for 2 SATA3 (6 Gbps) ports;	SoC controller for 2 SATA3 (6 Gbps) ports;	Marvel 88SE9230 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,10 SoC controller for 2 SATA3 (6 Gbps) ports;
Onboard LAN	Dual LAN with Intel® Ethernet Controller I210-AT	Dual LAN with Intel® Ethernet Controller I210IT	Dual LAN with Intel® Ethernet Controller I210IT	Dual LAN with Intel® Ethernet Controller I210-AT
Onboard VGA	1 DP (DisplayPort) port, 1 HDMI port, 1 VGA port, Intel® HD Graphics	1 DP (DisplayPort) port, 1 HDMI port, 1 VGA port, Intel® HD Graphics	1 DP (DisplayPort) port, 1 HDMI port, 1 VGA port, Intel® HD Graphics	1 DP (DisplayPort) port, 1 HDMI port, 1 VGA port, Intel® HD Graphics
USB Ports	8 USB 2.0 ports (2 rear + 5 headers + 1 Type A) 2 USB 3.0 ports (2 rear)	1 DP (DisplayPort) port, 1 HDMI port, 1 VGA port, Intel® HD Graphics	4 USB 2.0 ports (2 rear + 2 headers) 2 USB 3.0 ports (2 rear)	8 USB 2.0 ports (2 rear + 5 headers + 1 Type A) 2 USB 3.0 ports (2 rear)
Other Onboard I/O Devices	1 Port SuperDOM ALC 8885 HD Audio 3 COM Ports (1 rear, 2 headers) 1x COM in RJ45, 1X COM in RS232, and 1X COM in RS485.	1 Port SuperDOM 3 COM Ports (1 rear, 2 headers) 1x COM in RJ45, 1X COM in RS232, and 1X COM in RS485.	1 Port SuperDOM 3 COM Ports (1 rear, 2 headers) 1x COM in RJ45, 1X COM in RS232, and 1X COM in RS485.	1 Port SuperDOM ALC 8885 HD Audio TPM Header 3 COM Ports (1 rear, 2 headers) 1x COM in RJ45, 1X COM in RS232, and 1X COM in RS485.
Manageability	SuperDoctor® 5, Watchdog	SuperDoctor® 5, Watchdog	SuperDoctor® 5, Watchdog	SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, Monitors CPU voltages, System level control	+12V, +5V, +5V standby	+12V, +5V, +5V standby	+1.8V, +12V, +3.3V, +5V, +5V standby, Monitors CPU voltages, System level control
Thermal Control	2x 4-pin fan headers (up to 2 fans), Fan speed control, Low noise fan speed control, PWM fan speed control, System level control, Thermal control tachometer fan connectors	2x 4-pin fan headers (up to 2 fans), Fan speed control, Low noise fan speed control, PWM fan speed control	2x 4-pin fan headers (up to 2 fans), Fan speed control, Low noise fan speed control, PWM fan speed control	2x 4-pin fan headers (up to 2 fans), Fan speed control, Low noise fan speed control, PWM fan speed control, System level control, Thermal control tachometer fan connectors
Other Features	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	12V DC or ATX Power Source, 4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

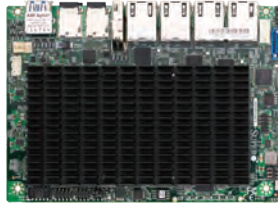
[†] Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

Low Power

Low Power

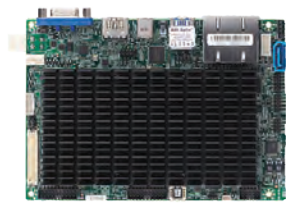
Low Power



(3.5" SBC, 5.866" x 4.17")



(3.5" SBC, 5.87" x 4.17")



(3.5" SBC, 5.7" x 4.0")

MODEL	A2SAN-LN4-E	A2SAN-LN4-C	X11SAN
Processor†	Intel® Atom® Processor E3940 Single Socket FCBGA-1296 supported, CPU TDP supports Up to 9.5W TDP	Intel® Celeron® Processor J3455 Single Socket FCBGA-1296 supported, CPU TDP supports Up to 10W TDP	Intel® Pentium™ Processor N4200 Single Socket FCBGA-1296 supported, CPU TDP supports Up to 6W TDP
Chipset	System on Chip	System on Chip	System on Chip
Form Factor	3.5" SBC, 5.866" x 4.17" (14.9cm x 10.6cm)	3.5" SBC, 5.87" x 4.17" (14.9cm x 10.6cm)	3.5" SBC, 5.7" x 4.0" (14.6cm x 10.16cm)
Memory Capacity & Slots*	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3-1866MHz, in 1 DIMM slot	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3-1866MHz, in 1 DIMM slot	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3-1866MHz, in 1 DIMM slot
Expansion Slots	M.2 Key: B-Key, E-Key 1 M.2 2242/3042 B-Key (USB3.0/2.0 x 1) with nano SIM holder (support SATA upon request) 2 M.2 2242/3042 B-Key (USB3.0/2.0 x 1) with nano SIM holder 1 M.2 2230 E-Key (PCI-E 2.0 x1/USB2)	M.2 Key: B-Key, E-Key 1 M.2 2242/3042 B-Key (USB3.0/2.0 x 1) with nano SIM holder (support SATA upon request) 2 M.2 2242/3042 B-Key (USB3.0/2.0 x 1) with nano SIM holder 1 M.2 2230 E-Key (PCI-E 2.0 x1/USB2)	1 Full size Mini-PCI-E (USB2.0 1, PCI-E Gen2 x 1) 1 M.2 2280 B-Key (PCI-E Gen2 x 1, SATA x 1) M.2 Interface: SATA and PCI-E 2.0 x1 and USB 2.0 M.2 Form Factor: 2280 M.2 Key: B-Key
Onboard RAID Controller	SoC controller for 1 SATA3 (6 Gbps) ports;	SoC controller for 1 SATA3 (6 Gbps) ports;	SoC controller for 1 SATA3 (6 Gbps) ports;
Onboard LAN	Quad LAN with Intel® Ethernet Controller I210IT	Quad LAN with Intel® Ethernet Controller I211-AT	Dual LAN with Intel® Ethernet Controller I210-AT
Onboard VGA	1 HDMI port, Intel® HD Graphics	1 HDMI port, Intel® HD Graphics	1 VGA port, 1 48-bit LVDS port, 1 HDMI port, Intel® HD Graphics
USB Ports	2 USB 2.0 ports (2 via headers) 2 USB 3.2 Gen1 ports (2 rear)	2 USB 2.0 ports (2 via headers) 2 USB 3.2 Gen1 ports (2 rear)	4 USB 2.0 ports (4 via headers) 2 USB 3.2 Gen1 ports (2 rear) 1 USB 3.2 Gen2 ports
Other Onboard I/O Devices	1 COM Port (1 header); (1 x RS232) 1 8-bit GPIO header 1 SMBus header 1 System Fan 4 onboard M.2 active LED 4 onboard GbE LAN active LED	1 SMBus header 1 System Fan 4 onboard M.2 active LED 4 onboard GbE LAN active LED	ALC 888S HD Audio TPM 2.0 Chip 4 COM Ports (4 headers); (2 RS232, 2 RS232/422/485, RS-485 supports Auto flow control) 1 HD Audio header (Mic-in/headphone-Out)(Audio only support at 0~60C) 1 8-bit GPIO header 1 SMBus header 1 Panel backlight power header 1 Speaker 1 system Fan
Manageability	SuperDoctor® 5, Watchdog	SuperDoctor® 5, Watchdog	SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.35V, +12V, +3.3V, +5V, 3.3V standby, System level control, System temperature, VBAT, VCGI	+1.35V, +12V, +3.3V, +5V, 3.3V standby, System level control, System temperature, VBAT, VCGI	+1.35V, +12V, +3.3V, +5V, 3.3V standby, System level control, System temperature, VBAT, VCGI
Thermal Control			
Other Features	8-pin 12v DC power connector, ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	8-pin 12v DC power connector, ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	4-pin 12v DC power connector, ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

† Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

Low Power



(5.7"W x 4.0"H)

Low Power



(5.7"W x 4.0"H)

Low Power



(5.7"W x 4.0"H)

IoT Gateway
Intel® Quark™ SoC X1021


(4.1"W x 4.0"H)

MODEL	A2SAN-H	A2SAN-E A2SAN-L	X11SAN	A1SQN A1SQN-E
Processor[†]	Intel® Atom® Processor E3940. Single Socket FCBGA1296 supported, CPU TDP support up to 9.5W TDP	-E: Intel® Atom® Processor E3940. Single Socket FCBGA1296 supported, CPU TDP support up to 9.5W TDP -L: Intel® Atom® Processor E3930. Single Socket FCBGA1296 supported, CPU TDP support up to 6.5W TDP	Intel® Pentium™ Processor N4200. Single Socket FCBGA1296 supported, CPU TDP support up to 6W TDP	Intel® Quark™ SoC X1021 Single Socket FCBGA393; CPU TDP support up to 2.2W
Chipset	System on Chip	System on Chip	System on Chip	SoC (System on Chip)
Form Factor	3.5" SBC, 5.7" x 4.0" (14.6cm x 10.16cm)	3.5" SBC, 5.7" x 4.0" (14.6cm x 10.16cm)	3.5" SBC, 5.7" x 4.0" (14.6cm x 10.16cm)	Proprietary 4.1" x 4.0"
Optimized Chassis	Embedded Compact Chassis: SuperChassis E102	Embedded Compact Chassis: SuperChassis E102	Embedded Compact Chassis: SuperChassis E102	Embedded Compact Chassis: ● SCE101
Memory Capacity & Slots*	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3-1866 MHz, in 1 DIMM slot	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3-1866 MHz, in 1 DIMM slot	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3-1866 MHz, in 1 DIMM slot	512MB DDR3 ECC on board
Expansion Slots	1 Full size Mini-PCI-E (USB 2.0 x1, PCI-E 2.0 x1) 1 M.2 2280 B-Key (PCI-E 2.0 x1, SATA x1) M.2 Interface: SATA and PCI-E 2.0 x1 and USB 2.0 M.2 Form Factor: 2280 M.2 Key: B-Key	1 Full size Mini-PCI-E (USB 2.0 x1, PCI-E 2.0 x1) 1 M.2 2280 B-Key (PCI-E 2.0 x1, SATA x1) M.2 Interface: SATA and PCI-E 2.0 x1 and USB 2.0 M.2 Form Factor: 2280 M.2 Key: B-Key	1 Full size Mini-PCI-E (USB 2.0 x1, PCI-E 2.0 x1) 1 M.2 2280 B-Key (PCI-E 2.0 x1, SATA x1) M.2 Interface: SATA and PCI-E 2.0 x1 and USB 2.0 M.2 Form Factor: 2280 M.2 Key: B-Key	2 Mini-PCI-E slots
Onboard RAID Controller	SoC controller for 1 SATA3 (6 Gbps) ports;	SoC controller for 1 SATA3 (6 Gbps) ports;	SoC controller for 1 SATA3 (6 Gbps) ports;	N/A
Onboard LAN	Dual LAN with Intel® Ethernet Controller I210-AT			
Onboard VGA	N/A	N/A	1 VGA port, 1 48-bit LVDS port, 1 HDMI port, Intel® HD Graphics	N/A
USB Ports	4 USB 2.0 ports (4 headers, Type A)) 2 USB 3.0 ports (2 rear) 1 USB 3.1 ports	4 USB 2.0 ports (4 headers, Type A)) 2 USB 3.0 ports (2 rear)	4 USB 2.0 ports (4 headers, Type A)) 2 USB 3.0 ports (2 rear) 1 USB 3.1 ports	2 USB 2.0 ports (2 rear +) Device & Host
Other Onboard I/O Devices	ALC 888S HD Audio TPM 2.0 Chip 4 COM Ports (4 headers); (2 x RS232, 2 RS232/422/485, RS-485 supports Auto flow control) 1 HD Audio header (Mic-in/Headphone-Out) 1 8-bit GPIO header 1 SMBus header 1 Panel backlight power header 1 Speaker 1 System Fan	ALC 888S HD Audio TPM 2.0 Chip 4 COM Ports (4 headers); (2 x RS232, 2 RS232/422/485, RS-485 supports Auto flow control) 1 8-bit GPIO header 1 HD Audio header Mic-in/Headphone-out(Audio only support at 0~60C) 1 SMBus header 1 Panel backlight power header 1 System Fan	ALC 888S HD Audio TPM 2.0 Chip 4 COM Ports (4 headers); (2 RS232, 2 RS232/422/485, RS-485 supports Auto flow control) 1 HD Audio header (Mic-in/headphone-Out)(Audio only support at 0~60C) 1 8-bit GPIO header 1 SMBus header 1 Panel backlight power header 1 Speaker 1 system Fan	TPM onboard 2 COM Ports (1 rear, 1 header) RS232 with DB9, KS485 and Analog input from terminal interface
Manageability	SuperDoctor® 5, Watchdog	SuperDoctor® 5, Watchdog	SuperDoctor® 5, Watchdog	Watchdog
PC Health Monitoring	+1.35V, +12V, +3.3V, +5V, 3.3V standby, System level control, System temperature, VBAT, VCGI 1x 4-pin fan header (up to 1 fan), Fan speed control, Low noise fan speed control, PWM fan speed control, System level control, Thermal control tachometer fan connectors	+1.35V, +12V, +3.3V, +5V, 3.3V standby, System level control, System temperature, VBAT, VCGI 1x 4-pin fan header (up to 1 fan), Fan speed control, Low noise fan speed control, PWM fan speed control, System level control, Thermal control tachometer fan connectors	+1.35V, +12V, +3.3V, +5V, 3.3V standby, System level control, System temperature, VBAT, VCGI 1x 4-pin fan header (up to 1 fan), Fan speed control, Low noise fan speed control, PWM fan speed control, System level control, Thermal control tachometer fan connectors	N/A
Thermal Control	4-pin 12v DC power connector, ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	4-pin 12v DC power connector, ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	4-pin 12v DC power connector, ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, System level control, WOL	N/A
Other Features				Wind River Linux® & McAfee Embedded Control OS License included Micro SDHC (up to 32GB) for OS and application use, 5-18V DC Input with locking design
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	8MB for Board Support Package

[†] Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

2/4/8/Core mITX
Quad 1GbE/IPMI

4/8/Core mITX
Quad 1GbE/IPMI

Communication
Rangeley

Avoton, Low Power
Silvermont



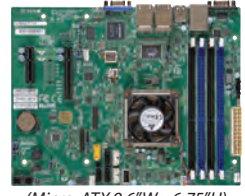
(6.75"W x 6.75"H)



(6.75"W x 6.75"H)



(Micro-ATX 9.6"W x 7.5"H)



(Micro-ATX 9.6"W x 6.75"H)

MODEL	A1SRi-2758F A1SRi-2558F A1SRi-2358F	A1SAi-2750F A1SAi-2550F	A1SRM-2758F A1SRM-2558F	A1SAM-2750F A1SAM-2550F
Processor [†]	Intel® Atom™ Processor C2758, Intel® Atom™ Processor C2558 & Intel® Atom™ Processor C2358 product families; Single Socket FCBGA1283 supported; CPU TDP support up to 20W / 15W/7W	Intel® Atom™ Processor C2750 & Intel® Atom™ Processor C2550 product families; Single Socket FCBGA1283 supported; CPU TDP support up to 20W / 14W	Intel® Atom™ Processor C2758 Single Socket FCBGA1283 supported; CPU TDP support 20W	Intel® Atom™ Processor C2550 Single Socket FCBGA1283 supported; CPU TDP support 20W
Chipset	SoC (System on Chip)	SoC (System on Chip)	SoC (System on Chip)	SoC (System on Chip)
Form Factor	Mini-ITX 6.75" x 6.75"	Mini-ITX 6.75" x 6.75"	Micro-ATX 9.6" x 7.5"	Micro-ATX 9.6" x 7.5"
Optimized Chassis	SC101i SC101S SC504-203B ● SC505-203B ● SC721TQ-250B SC731i-300B	SC101i SC101S ● SC504-203B SC505-203B SC731i-300B SC721TQ-250B	● SC 813MTQ-202CB SC512L-200B SC813MTQ-350CB SC510T-203B SC512L-260-LCD SC510-203B SC731i-300B	SC 512L-260-LCD SC 510-203B ● SC512L-200B SC813MTQ-350CB SC813MTQ-202CB SC510T-203B SC731i-300B
Memory Capacity & Slots*	-2758/2558: Up to 64GB Unbuffered ECC SO-DIMM, DDR3-1600 MHz, in 4 slots; -2358: Up to 16GB Unbuffered ECC SO-DIMM, DDR3-1333MHz, in 2 slots	Up to 64GB ECC SODIMM in 4 slots	Up to 64GB Unbuffered ECC/non-ECC UDIMM, DDR3-1600 MHz, in 4 DIMM slots x8 Width only 1 PCI-E 2.0 x8 1 PCI-E 2.0 x4	Up to 64GB Unbuffered ECC/non-ECC UDIMM, DDR3-1600 MHz, in 4 DIMM slots x8 Width only 1 PCI-E 2.0 x8 1 PCI-E 2.0 x4
Expansion Slots	1 PCI-E 2.0 x8	1 PCI-E 2.0 x8	1 PCI-E 2.0 x8 1 PCI-E 2.0 x4	1 PCI-E 2.0 x8 1 PCI-E 2.0 x4
Onboard RAID Controller	-2758/2558: SoC controller for 4 SATA2 (3Gb/s) ports; 2 SATA3 (6Gb/s) -2358: 2 SATA3 (6Gb/s); 2 SATA2 (3Gb/s)	SoC controller for 4 SATA2 (3Gb/s) ports; 2 SATA3 (6Gb/s)	SoC controller for 4 SATA2 (3 Gb/s) ports; 2 SATA3 (6Gb/s)	SoC controller for 4 SATA2 (3 Gb/s) ports; 2 SATA3 (6Gb/s)
Onboard LAN	Quad LAN with Intel® C2000 SoC I354	Quad LAN with Intel® C2000 SoC I354	Quad LAN with Intel® C2000 SoC I354	Quad LAN with Intel® C2000 SoC
Onboard VGA	VGA, Aspeed AST2400 BMC	VGA, Aspeed AST2400 BMC	VGA, Aspeed AST2400 BMC	VGA, Aspeed AST2400 BMC
USB Ports	4 USB 3.0 ports (2 rear + 1 via header + 1 Type A); 2 USB 2.0 ports (2 rear)	4 USB 3.0 ports (2 rear + 1 via header + 1 Type A); 2 USB 2.0 ports (2 rear)	7 USB 2.0 ports (4 rear + 2 via headers + 1 Type A)	7 USB 2.0 ports (4 rear + 2 via headers + 1 Type A)
Other Onboard I/O Devices	1 SATA DOM power connector 2 COM Ports (1 rear, 1 header) TPM header	2 COM ports (1 rear, 1 header); 1 TPM header	1 SATA DOM power connector 2 fast UART 16550 serial; TPM Header 2 COM Ports (1 rear, 1 header)	1 SATA DOM power connector2 fast UART 16550 serial; TPM Header 2 COM Ports (1 rear, 1 header) Support one SMC SATA DOM
Manageability	IPMI 2.0 + KVM with dedicated LAN, NMI, SuperDoctor® 5, SSM, Watchdog Monitors CPU voltages, +1.8V, +12V, +3.3V, +5V, +5V Standby, Chassis intrusion header, Supports system management utility, System level control	IPMI 2.0 + KVM with dedicated LAN, NMI, SSM, SuperDoctor® 5, Watchdog Monitors CPU voltages, +1.8V, +12V, +3.3V, +5V, +5V Standby, Chassis intrusion header, Supports system management utility, System level control	IPMI 2.0 + KVM with dedicated LAN, NMI, SuperDoctor® 5, SSM, Watchdog +1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Supports system management utility, System level control	IPMI 2.0 + KVM with dedicated LAN, NMI, SuperDoctor® 5, SSM, Watchdog +1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Supports system management utility, System level control
Thermal Control	3 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	3 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	3x 4-pin fan headers (up to 3 fans), Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	3x 4-pin fan headers (up to 3 fans), Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors
Other Features	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, System level control, UID, WOL, 0°C -60°C operating temperature, Intel® QuickAssist Technology	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, System level control, UID, WOL, 0°C -60°C operating temperature	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, System level control, UID, WOL	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, System level control, UID, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

[†] Supermicro chassis required for optimal functionality and performance.
* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

Embedded/
Communication
3-Pair LAN Bypass



(Micro-ATX 8.0" x 9.6")

Embedded/
Communication
3-Pair LAN Bypass



(Micro-ATX 8.0" x 9.6")

Embedded/
Communication
3-Pair LAN Bypass



(Micro-ATX 8.0" x 9.6")

MODEL	A1SRM-LN7F-2758	A1SRM-LN7F-2358	A1SRM-LN5F-2358
Processor[†]	Intel® Atom™ Processor C2758 & Intel® Atom™ Processor C2358 product families; Single Socket FCBGA1283 supported; CPU TDP support up to 20W/7W	Intel® Atom™ Processor C2758 & Intel® Atom™ Processor C2358 product families; Single Socket FCBGA1283 supported; CPU TDP support up to 20W/7W	Intel® Atom™ Processor C2758 & Intel® Atom™ Processor C2358 product families; Single Socket FCBGA1283 supported; CPU TDP support up to 20W/7W
Chipset	SoC (System on Chip)	SoC (System on Chip)	SoC (System on Chip)
Form Factor	Micro-ATX 8.0" x 9.6"	Micro-ATX 8.0" x 9.6"	Micro-ATX 8.0" x 9.6"
Optimized Chassis	● SC510-203B (Rev. N) - SC813MTQ-202CB - SC510T-203B (Rev. N) - SC512L-200B - SC512L-260-LCD - SC813MTQ-350CB	● SC510-203B (Rev. N) - SC813MTQ-202CB - SC510T-203B (Rev. N) - SC512L-200B - SC512L-260-LCD - SC813MTQ-350CB	● SC510-203B (Rev. N) - SC813MTQ-202CB - SC510T-203B (Rev. N) - SC512L-200B - SC512L-260-LCD - SC813MTQ-350CB
Memory Capacity & Slots*	-2758: 64GB Unbuffered ECC/non-ECC UDIMM, DDR3-1600 MHz, in 4 DIMM slots; x8 Width only	-2558: 64GB Unbuffered ECC/non-ECC UDIMM, DDR3-1600 MHz, in 4 DIMM slots; x8 Width only	-2358: 16GB Unbuffered ECC/non-ECC UDIMM, DDR3-1600 MHz, in 2 DIMM slots; x8 Width only
Expansion Slots	1 PCIe 2.0 x4 (in x8 slot)	1 PCIe 2.0 x4 (in x8 slot)	1 PCIe 2.0 x4 (in x8 slot)
Onboard RAID Controller	SoC controller for 4 SATA2 (3 Gb/s) ports; 2 SATA3 (6Gb/s)	SoC controller for 4 SATA2 (3 Gb/s) ports; 2 SATA3 (6Gb/s)	SoC controller for 4 SATA2 (3 Gb/s) ports; 2 SATA3 (6Gb/s); -2358: with 2 SATA2 and 2 SATA3 ports)
Onboard LAN	Quad LAN with Intel® C2000 SoC, 2 pairs LAN bypass; Single LAN with Intel® Ethernet Controller i210-AT -LN7F; Extra Dual LAN with Intel® Ethernet Controller i350-AM2, 1 additional pair LAN bypass	Quad LAN with Intel® C2000 SoC, 2 pairs LAN bypass; Single LAN with Intel® Ethernet Controller i210-AT -LN7F; Extra Dual LAN with Intel® Ethernet Controller i350-AM2, 1 additional pair LAN bypass	Quad LAN with Intel® C2000 SoC, 2 pairs LAN bypass; Single LAN with Intel® Ethernet Controller i210-AT -LN7F; Extra Dual LAN with Intel® Ethernet Controller i350-AM2, 1 additional pair LAN bypass
Onboard VGA	VGA, Aspeed AST2400 BMC	VGA, Aspeed AST2400 BMC	VGA, Aspeed AST2400 BMC
USB Ports	7 USB 2.0 ports (4 rear + 2 via headers + 1 Type A)	7 USB 2.0 ports (4 rear + 2 via headers + 1 Type A)	7 USB 2.0 ports (4 rear + 2 via headers + 1 Type A)
Other Onboard I/O Devices	SuperDOM TPM header 2 COM Ports (1 rear, 1 header)	SuperDOM TPM header 2 COM Ports (1 rear, 1 header)	SuperDOM TPM header 2 COM Ports (1 rear, 1 header)
Manageability	IPMI 2.0 + KVM with shared i210 LAN, NMI, SuperDoctor® 5, SSM, Watchdog	IPMI 2.0 + KVM with shared i210 LAN, NMI, SuperDoctor® 5, SSM, Watchdog	IPMI 2.0 + KVM with shared i210 LAN, NMI, SuperDoctor® 5, SSM, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Supports system management utility, System level control	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Supports system management utility, System level control	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Supports system management utility, System level control
Thermal Control	3 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	3 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	3 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors
Other Features	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Intel® QuickAssist Technology, System level control, UID, WOL, 0°C -60°C operating temperature	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Intel® QuickAssist Technology, System level control, UID, WOL, 0°C -60°C operating temperature	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Intel® QuickAssist Technology, System level control, UID, WOL, 0°C -60°C operating temperature
BIOS	AMI UEFI	AMI UEFI	AMI UEFI

[†] Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

Intel® Xeon® Processor D, SoC
16/12/8-core
Up to 128GB DDR4 RDIMM
Dual 10SFP+, Dual 1GbE



(Mini-ITX 6.7" x 6.7")

Intel® Xeon® Processor D, SoC
4/6/8/12/16-Core
128GB Memory
Dual 10GbE, Dual 1GbE



(Mini-ITX 6.7" x 6.7")

Intel® Xeon® Processor D, SoC
2/4-Core
128GB Memory
Dual 10GbE



(Mini-ITX 6.7" x 6.7")

Intel® Xeon® Processor D, SoC
8-Core
128GB Memory
Dual 1GbE



(Mini-ITX 6.7" x 6.7")

MODEL	X10SDV-16C-TLN4F+ X10SDV-12C-TLN4F+ X10SDV-8C-TLN4F+	X10SDV-16C-TLN4F X10SDV-12C-TLN4F X10SDV-8C-TLN4F X10SDV-6C-TLN4F X10SDV-4C-TLN4F	X10SDV-4C-TLN2F X10SDV-2C-TLN2F	X10SDV-8C+-LN2F X10SDV-F
Processor [†]	Intel® Xeon® Processor D product family, Single Socket FCBGA 1667 supported; 16C: D-1587, 24MB, 16 Core, 65W; 12C: D-1557, 18MB, 12 Core, 45W; 8C: D-1537, 12MB, 8 Core, 35W;	Intel® Xeon® Processor D product family, Single Socket FCBGA 1667 supported; 16C: D-1587, 24MB, 16 Core, 65W; 12C: D-1557, 18MB, 12 Core, 45W; 8C: D-1541, 12MB, 8 Core, 45W; 6C: D-1528, 9MB, 6 Core, 35W; 4C: D-1518, 6MB, 4 Core, 35W; with Passive Heatsink	Intel® Xeon® Processor D product family, Single Socket FCBGA 1667 supported; 4C: D-1520/1521, 6MB, 4 Core, 45W; 2C: D-1508, 3MB, 2 Core, 25W; with Passive Heatsink	Intel® Xeon® Processor D-1541, 8 Core; Single Socket FCBGA1667 supported; CPU TDP support 45W; -8C+: with Active Heatsink -F: with Passive Heatsink
Chipset	System on Chip	System on Chip	System on Chip	System on Chip
Form Factor	Mini-ITX 6.7" x 6.7"	Mini-ITX 6.7" x 6.7"	Mini-ITX 6.7" x 6.7"	Mini-ITX 6.7" x 6.7"
Optimized Chassis	● SC504-203B ● SC505-203B	● SC504-203B ● SC505-203B	● SC504-203B ● SC505-203B	● SC504-203B ● SC505-203B ● SC721TQ-250B
Memory Capacity & Slots*	Up to 128GB Registered ECC RDIMM, DDR4-2133 MHz; or 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2133 MHz, in 4 DIMM slots	Up to 128GB ECC RDIMM, or 64GB ECC/non-ECC UDIMM, DDR4-2133 MHz, in 4 DIMM slots	Up to 128GB ECC RDIMM, or 64GB ECC/non-ECC UDIMM, DDR4-2133 MHz, in 4 DIMM slots	Up to 128GB ECC RDIMM, or 64GB ECC/non-ECC UDIMM, DDR4-2133 MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 M.2 PCI-E 3.0x4, M Key 2242/2280 M.2 Interface: PCI-E 3.0 x4 and SATA M Key 2242/2280	1 PCI-E 3.0 x16 M.2 PCI-E 3.0 x4, M Key 2242/2280	1 PCI-E 3.0 x16 M.2 PCI-E 3.0 x4, M Key 2242/2280	1 PCI-E 3.0 x16 M.2 PCI-E 3.0 x4, M Key 2242/2280
Onboard RAID Controller	SoC controller for 6 SATA3 (6Gb/s) ports; RAID 0,1,5,10; RSTe	SoC controller for 6 SATA3 (6Gb/s) ports; RAID 0,1,5,10 RSTe	SoC controller for 6 SATA3 (6Gb/s) ports; RAID 0,1,5,10 RSTe	SoC controller for 6 SATA3 (6Gb/s) ports; RSTe, Intel® Raid 0,1,5,10
Onboard LAN	Dual LAN with 10G SFP+ Dual LAN with Intel® Ethernet Controller i350-AM2	Dual 10GbBase-T with SoC Dual 1GbE LAN with Intel® i350-AM2;	Dual 10GbBase-T with SoC	Dual 1GbE LAN with Intel® i350-AM2
Onboard VGA	1 VGA via Aspeed AST2400 BMC	1 VGA via Aspeed AST2400 BMC	1 VGA via Aspeed AST2400 BMC	1 VGA via Aspeed AST2400 BMC
USB Ports	2 USB 2.0 ports (+ 2 via headers) 2 USB 3.0 ports (2 rear) 1 Port SuperDOM	4 USB 2.0 ports (4 via headers) 2 USB 3.0 ports (2 rear) 1 Port SuperDOM	4 USB 2.0 ports (4 via headers) 2 USB 3.0 ports (2 rear) 1 Port SuperDOM	4 USB 2.0 ports (4 via headers) 2 USB 3.0 ports (2 rear) 1 Port SuperDOM
Other Onboard I/O Devices	TPM 1.2 Header 1 COM Ports (1 header) GPIO and SMBus headers	TPM Header 1 COM Ports (1 header) GPIO and SMBus headers	TPM Header 1 COM Ports (1 header) GPIO and SMBus headers	TPM Header 1 COM Ports (1 header) GPIO and SMBus headers
Manageability	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor® 5, Watchdog	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, NMI, SSM, SUM, SuperDoctor® 5, Watchdog	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, NMI, SSM, SUM, SuperDoctor® 5, Watchdog	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, NMI, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, 1.2V (VDIMM), 4 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT	+1.8V, +12V, +3.3V, +5V, 1.2V (VDIMM), 4 -fan status, Chassis intrusion header, Supports system management utility, System level control, VBAT	+1.8V, +12V, +3.3V, +5V, 1.2V (VDIMM), 4 -fan status, Chassis intrusion header, Supports system management utility, System level control, VBAT	+1.8V, +12V, +3.3V, +5V, 1.2V (VDIMM), 4 -fan status, Chassis intrusion header, Supports system management utility, System level control, VBAT
Thermal Control	4 4-pin, Fan speed control, Overheat LED indication, Pulse Width Modulated (PWM) fan connectors, PWM fan speed control, System level control, Thermal control tachometer fan connectors	4 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	4 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	4 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors
Other Features	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, M.2 NGFF connector, Node Manager Support, SDDC, System level control, UID, WOL	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, M.2 NGFF connector, Node Manager Support, SDDC, System level control, UID, WOL	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, M.2 NGFF connector, Node Manager Support, SDDC, System level control, UID, WOL	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, M.2 NGFF connector, Node Manager Support, SDDC, System level control, UID, WOL, SDDC
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

[†] Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

Intel® Xeon® Processor D SoC
4/6/8/16-Core
128GB Memory
Dual 10GbE, Dual 1GbE



(Mini-ITX 6.7" x 6.7")

Intel® Xeon® Processor D SoC
16-Core, 128GB Memory
22x SATA Storage Device
2x 10GbE SFP+, 6x 1GbE



(Flex ATX 9.0" x 7.25")

Intel® Xeon® Processor D SoC
2/4/8 Core, 128GB Memory
22x SATA Storage Device
2x 10GbE SFP+, 2x 1GbE



(Flex ATX 9.0" x 7.25")

Intel® Xeon® Processor D SoC
2/4 Core, 128GB Memory
2x 10GbE SFP+, 6x 1GbE



(Flex ATX 9.0" x 7.25")

MODEL	X10SDV-TLN4F X10SDV-16C+-TLN4F X10SDV-6C+-TLN4F X10SDV-4C+-TLN4F	X10SDV-7TP8F	X10SDV-7TP4F X10SDV-4C-7TP4F X10SDV-2C-7TP4F	X10SDV-TP8F X10SDV-2C-TP8F
Processor†	Intel® Xeon® Processor D product family; Single Socket FCBGA 1667 supported; D-1541, 12MB, 8 Core, 45W; 16C+: Intel® Xeon® Processor D-1587, 24MB, 16 Core, 65W; 6C+: Intel® Xeon® Processor D-1528, 9MB, 6 Core, 35W; 4C+: Intel® Xeon® Processor D-1518, 6MB, 4 Core, 35W; with Active Heatsink	Intel® Xeon® Processor D-1587 product family; Single Socket FCBGA 1667 supported; CPU TDP support 65W	Intel® Xeon® Processor D-1537, 8 Core; Single Socket FCBGA 1667 supported; CPU TDP support 35W 4C: Intel® Xeon® Processor D-1518, 6MB, 4 Core, 35W 2C: Intel® Pentium® Processor D1508 Socket FCBGA 1667 supported; CPU TDP support 25W	Intel® Xeon® Processor D-1518, 4 Core; Single Socket FCBGA 1667 supported; CPU TDP support 35W; 2C: Intel® Pentium® Processor D1508 Single Socket FCBGA 1667 supported; CPU TDP support 25W
Chipset	System on Chip	System on Chip	System on Chip	System on Chip
Form Factor	Mini-ITX 6.7" x 6.7"	Flex ATX 9.0" x 7.25"	Flex ATX 9.0" x 7.25"	Flex ATX 9.0" x 7.25"
Optimized Chassis	● SC721TQ-250B	● SCe300 ● SC504-203B ● SC505-203B SC813MTQ-350CB	● SCe300 ● SC504-203B ● SC505-203B SC813MTQ-350CB	● SCe300 ● SC504-203B ● SC505-203B ● SC515-R407 SC514-505 SC813MTQ-350CB
Memory Capacity & Slots*	Up to 128GB ECC RDIMM, or 64GB ECC/non-ECC UDIMM, DDR4-2133 MHz, in 4 DIMM slots	Up to 128GB ECC RDIMM, or 64GB ECC/non-ECC UDIMM, DDR4-2133 MHz, in 4 DIMM slots	Up to 128GB ECC RDIMM, or 64GB ECC/non-ECC UDIMM, DDR4-2133 MHz, in 4 DIMM slots	Up to 128GB ECC RDIMM, or 64GB ECC/non-ECC UDIMM, DDR4-2133 MHz, in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 M.2 PCI-E 3.0 x4, M Key 2242/2280	2 PCI-E 3.0 x8 M.2 PCI-E 3.0 x4, M Key 2242/2280/22110; Mini-PCI-E with mSATA support	2 PCI-E 3.0 x8 M.2 PCI-E 3.0 x4, M Key 2242/2280/22110; Mini-PCI-E with mSATA support	2 PCI-E 3.0 x8 M.2 PCI-E 3.0 x4, M Key 2242/2280/22110; Mini-PCI-E with mSATA support
Onboard RAID Controller	SoC controller for 6 SATA3 (6Gb/s) ports; RSTe, Intel® Raid 0,1,5,10	SoC controller for 4 SATA3 (6Gb/s) ports; RSTe, Intel® Raid 0,1,5,10; Broadcom® 2116 SW controller for 16 SATA3 (6Gb/s) ports; SAS2 and SATA3;	SoC controller for 4 SATA3 (6Gb/s) ports; RSTe, Intel® Raid 0,1,5,10; Broadcom® 2116 SW controller for 16 SATA3 (6Gb/s) ports; SAS2 and SATA3;	SoC controller for 4 SATA3 (6Gb/s) ports; RSTe, Intel® Raid 0,1,5,10
Onboard LAN	Dual 10GBase-T with SoC Dual 1GbE LAN with Intel® i350-AM2;	Dual 10GbE SFP+ from SoC; Dual 1GbE LAN with Intel® I210; Quad 1GbE LAN with Intel® i350-AM4	Dual 10GbE SFP+ from SoC; Dual 1GbE LAN with Intel® I210	Dual 10GbE SFP+ from SoC; Dual 1GbE LAN with Intel® I210; Quad 1GbE LAN with Intel® i350-AM4
Onboard VGA	1 VGA via Aspeed AST2400 BMC	1 VGA via Aspeed AST2400 BMC	1 VGA via Aspeed AST2400 BMC	1 VGA via Aspeed AST2400 BMC
USB Ports	4 USB 2.0 ports (4 via headers) 2 USB 3.0 ports (2 rear)	2 USB 3.0 ports (2 rear); 5 USB 2.0 ports (+ 4 via headers + 1 Type A)	2 USB 3.0 ports (2 rear); 5 USB 2.0 ports (+ 4 via headers + 1 Type A)	2 USB 3.0 ports (2 rear); 5 USB 2.0 ports (+ 4 via headers + 1 Type A)
Other Onboard I/O Devices	1 Port SuperDOM TPM Header 1 COM Ports (1 header) GPIO and SMBus headers	2 ports SuperDOM TPM 2.0 Header 1 COM Ports (1 header) GPIO and SMBus headers	2 ports SuperDOM TPM 2.0 Header 1 COM Ports (1 header) GPIO and SMBus headers	2 ports SuperDOM TPM 2.0 Header 1 COM Ports (1 header) GPIO and SMBus headers
Manageability	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, NMI, SSM, SUM, SuperDoctor® 5, Watchdog	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, AMT, NMI, SSM, SUM, SuperDoctor® 5, Watchdog	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, AMT, NMI, SSM, SUM, SuperDoctor® 5, Watchdog	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, AMT, NMI, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, 1.2V (VDIMM), 4-fan status, Chassis intrusion header, Supports system management utility, System level control, VBAT	+1.8V, +12V, +3.3V, +5V, 1.2V (VDIMM), 6-fan status, Chassis intrusion header, Supports system management utility, System level control, VBAT	+1.8V, +12V, +3.3V, +5V, 1.2V (VDIMM), 6-fan status, Chassis intrusion header, Supports system management utility, System level control, VBAT	+1.8V, +12V, +3.3V, +5V, 1.2V (VDIMM), 6-fan status, Chassis intrusion header, Supports system management utility, System level control, VBAT
Thermal Control	4 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors
Other Features	4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, M.2 NGFF connector, Node Manager Support, SDDC, System level control, UID, WOL	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, M.2 NGFF connector, Node Manager Support, SDDC, System level control, UID, WOL	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, M.2 NGFF connector, Node Manager Support, SDDC, System level control, UID, WOL	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, M.2 NGFF connector, Node Manager Support, SDDC, System level control, UID, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

† Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

Intel® Xeon® Processor D SoC
2/4 Core, 128GB Memory
2x 10GbE SFP+, 2x 1GbE

Low Power

vPro AMT
mSATA Slot
Q87, 7 Year DT

Embedded



(Flex ATX 9.0" x 7.25")



(Mini-ITX 6.7" x 6.7")



(Micro-ATX 9.6" x 9.6")



(Mini-ITX 6.7" x 6.7")

MODEL	X10SDV-4C+TP4F X10SDV-2C-TP4F	X10SBA X10SBA-L	X10SLQ X10SLQ-L	X10SLV X10SLV-Q
Processor†	Intel® Xeon® Processor D-1518, 4 Core; Single Socket FCBGA 1667 supported; CPU TDP support 35W 2C: Intel® Pentium® Processor D1508 Single Socket FCBGA1667 supported; CPU TDP support 25W	Intel® Celeron® Processor J1900, Single Socket FCBGA1170 supported; CPU 10W, 4C, 2.0GHz-2.42GHz	4th Generation Intel® Core™ Processors, Intel® Celeron® Processor, Intel® Pentium® Processor; Single Socket LGA 1150 supported	4th Generation Intel® Core™ Processors, Intel® Celeron® Processor, Intel® Pentium® Processor; Single Socket LGA 1150 supported
Chipset	System on Chip	System on Chip	Intel® Q87 Express	X10SLV: Intel® H81 X10SLV-Q: Intel® Q87
Form Factor	Flex ATX 9.0" x 7.25"	Mini-ITX 6.7" x 6.7"	Micro-ATX 9.6" x 9.6"	Mini-ITX 6.7" x 6.7"
Optimized Chassis	SCe300 ● SC504-203B ● SC505-203B ● SC515-R407 SC514-505 SC813MTQ-350CB SC731i-300B (X10SDV-4C+TP4F only)	● SC101S SC101I SC101IF SC504-203B SC505-203B SC721TQ-250B	SC732D4F-500B/865B/903B SC732D4-500B/865B/903B SC732D2-500B/865B/903B SC732i-500B/865B SC731D-300B SC731i-300B 2U Heatsink: SNK-P0046A4 2U Heatsink: SNK-P0046A4	● SC101i SC101IF 1U Heatsink: SNK-P0049A4 For X10SLV-Q only: SC504-203B SC505-203B 1U Heatsink: SNK-P0049A4 ● SC721TQ-250B 2U Heatsink: SNK-P0046A4 SC731D-300B SC731i-300B 2U Heatsink: SNK-P0046A4 SC732D4F-500B/865B/903B SC732D4-500B/865B/903B SC732D2-500B/865B/903B SC732i-500B/865B 2U Heatsink: SNK-P0046A4
Memory Capacity & Slots*	Up to 128GB ECC RDIMM, or 64GB ECC/non-ECC UDIMM, DDR4-2133 MHz, in 4 DIMM slots	Up to 8GB with two 4GB SODIMM configuration in 2 DIMM slots, 1.35V only	Up to 32GB Unbuffered non-ECC, DDR3- 1600 MHz in 4 DIMM slots; X10SLQ-L supports up to 16GB with 2 DIMM slots 1 PCI-E 3.0 x16 (in x16 slot), 1 PCI-E 2.0 x4, 1 PCI-E 2.0 x1, Mini-PCI-E with mSATA support (N/A in -L)	Up to 16GB non-ECC SODIMM in 2 slots
Expansion Slots	2 PCI-E 3.0 x8 M.2 PCI-E 3.0 x4, M Key 2242/2280/22110; Mini-PCI-E with mSATA support	1 PCI-E 2.0 x2, 1 Mini-PCI-E slot, Mini-PCI-E with mSATA support (N/A in -L)	1 PCI-E 3.0 x16 (in x16 slot), 1 PCI-E 2.0 x4, 1 PCI-E 2.0 x1, Mini-PCI-E with mSATA support (N/A in -L)	1 PCI-E 3.0 x16 Mini-PCI-E with mSATA support
Onboard RAID Controller	SoC controller for 4 SATA3 (6Gb/s) ports; RSTe, Intel® Raid 0,1,5,10	SoC controller for 2 SATA2 (3 Gb/s) ports; Marvel 88SE9230 controller for 4 SATA3 (6Gb/s) ports; RAID 0,1,10 (X10SBA only)	Intel® Q87 controller for 6 SATA3 (6Gb/s) ports; RAID 0,1,5,10	X10SLV: Intel® H81 controller for 2 SATA3 (6Gb/s) ports; 2 SATA2 (3Gb/s) X10SLV-Q: Intel® Q87 controller for 4 SATA3 (6Gb/s) ports; RAID 0,1,5,10
Onboard LAN	Dual 10GbE SFP+ from SoC; Dual 1GbE LAN with Intel® i210	Dual LAN with Intel® Ethernet Controller i210-AT 1 VGA, 1 HDMI, 1 DP (Display Port) 1 eDP (Embedded Display Port for X10SBA only) 1 Intel® HD Graphics 2 independent displays	Dual LAN with Intel® i217LM & i210AT	Dual LAN with Intel® i217V & i210AT
Onboard VGA	1 VGA via Aspeed AST2400 BMC	1 VGA, 1 HDMI, 1 DP (Display Port) 1 eDP (Embedded Display Port for X10SBA only) 1 Intel® HD Graphics 2 independent displays	HDMI, DP (Display Port) DVI-D, VGA Intel® HD 4600 Graphics 3 Independent Displays	1 HDMI, 1 DP (Display Port) 1 DVI-I Intel® HD 4600 Graphics 3 independent Displays
USB Ports	2 USB 3.0 ports (2 rear); 5 USB 2.0 ports (+ 4 via headers + 1 Type A)	1 USB 3.0 ports (1 rear +) 5 USB 2.0 ports (1 rear + 3 via headers + 1 Type A)	4 USB 3.0 ports (2 rear + 2 via headers + 8 USB 2.0 ports (4 rear + 4 via headers) -L with 2 USB 3.0 rear header and 6 USB 2.0 ports	2 USB 3.0 ports (2 rear +) 5 USB 2.0 ports (2 rear + 2 via headers + 1 Type A)
Other Onboard I/O Devices	2 ports SuperDOM TPM 2.0 Header 1 COM Ports (1 header) GPIO and SMBus headers	1 SATA DOM power connector ALC 888S HD Audio TPM header 4 COM ports (4 headers)	7.1 HD Audio Audio 4 COM port headers PS/2 Combo mouse & keyboard (-L: w/o PS/2 KB/MS) TPM header 1 com port with RS422/485 support	1 SATA DOM power connector; ALC 888S HD Audio; 5 fast UART 16550 serial COM port headers (2 rear 3 header; PS/2 Combo mouse and keyboard; 1 com port with RS422/485 support; TPM header
Manageability	Redfish 1.0 + IPMI 2.0 + KVM with dedicated LAN, AMT, NMI, SSM, SUM, SuperDoctor® 5, Watchdog	SuperDoctor® 5, SSM, Watchdog	SuperDoctor® 5, SSM, Watchdog, AMT vPro	SuperDoctor® 5, SSM, Watchdog
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, 1.2V (VDIMM), 6-fan status, Chassis intrusion header, Supports system management utility, System level control, VBAT	Supports system management utility, System level control	Monitors CPU voltages, +1.8V, +12V, +3.3V, +5V, +5V Standby, 4-fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control	Monitors CPU voltages, +1.8V, +12V, +3.3V, +5V, +5V Standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control
Thermal Control	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, M.2 NGFF connector, Node Manager Support, SDDC, System level control, UID, WOL	2 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors 4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, System level control, WOL, 0°C -60°C operating temperature	Overheat LED indication, fan speed control, Thermal control tachometer fan connectors ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Intel® Smart Response Technology, System level control, WOL, 0°C -60°C operating temperature	3 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors 4-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, System level control, WOL, 0°C -60°C operating temperature
Other Features	recovery from AC power loss, CPU thermal trip support for Processor protection, M.2 NGFF connector, Node Manager Support, SDDC, System level control, UID, WOL	recovery from AC power loss, CPU thermal trip support for Processor protection, System level control, WOL, 0°C -60°C operating temperature	recovery from AC power loss, CPU thermal trip support for Processor protection, Intel® Smart Response Technology, System level control, WOL, 0°C -60°C operating temperature	recovery from AC power loss, CPU thermal trip support for Processor protection, System level control, WOL, 0°C -60°C operating temperature
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

EMBEDDED

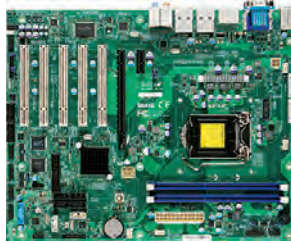
Embedded
Communication
LAN BypassEmbedded ECC
vPro, mSATAEmbedded ECC
IPMI 2.0Embedded ECC
IPMI 2.0

MODEL†	X9SKV-1125 X9SKV-B915 X9SKV-1105	X9SPV-M4 X9SPV-M4-3QE X9SPV-M4-3UE	X9SPV-LN4F-3QE X9SPV-LN4F-3LE	X9SPV-F-3610ME X9SPV-F-3217UE
Processor	-1125: Intel® Xeon® Processor E3-1125C, 40W; -1105: Intel® Xeon® Processor E3-1105C v2, 25W; -B915: Intel® Pentium® Processor B915C, 15W; Single Socket FCBGA1284 supported Intel® Communications Chipset 8903	Intel® Core™ i7 Processor 3555LE, 25W, FCBGA1023; -3QE: Intel® Core™ i7 Processor 3612QE, 35W, FCBGA1023 Quad Core; -3UE: Intel® Core™ i7 Processor 3517UE, 17W	-3QE: Intel® Core™ i7 Processor 3612QE, 35W, FCBGA1023 Quad Core; -3LE: Intel® Core™ i7 Processor 3555LE, 25W, FCBGA1023	-3610ME: Intel® Core™ i5 Processor 3610ME, 35W, FCBGA1023; -3217UE: Intel® Core™ i3 Processor 3217UE, 17W, FCBGA1023
Chipset	Mobile Intel® QM77 Express Chipset	Mobile Intel® QM77 Express Chipset	Mobile Intel® QM77 Express Chipset	Mobile Intel® QM77 Express Chipset
Form Factor	Flex ATX 9.0" x 7.2"	Mini-ITX 6.75"W x 6.75"H	Mini-ITX 6.75"W x 6.75"H	Mini-ITX 6.75"W x 6.75"H
Optimized Chassis	• SC504-203B SC505-203B SC510-203B (Rev. N) SC813MTQ-350CB SC731i-300B	SC505-203B SC504-203B SC101i (* 80W DC-ATX PWR Board: MCP-250-10103-0N) SC721TQ-250B	SC505-203B SC504-203B SC101i (* 80W DC-ATX PWR Board: MCP-250-10103-0N) SC721TQ-250B	SC505-203B SC504-203B SC101i (* 80W DC-ATX PWR Board: MCP-250-10103-0N) SC721TQ-250B
Memory Capacity & Slots*	Up to 32GB DDR3 1600 MHz ECC SODIMM in 4 slots	Up to 16GB DDR3 1600/1333 MHz ECC SODIMM in 2 slots	Up to 16GB DDR3 1600/1333 MHz ECC SODIMM in 2 slots	Up to 16GB DDR3 1600/1333 MHz ECC SODIMM in 2 slots
Expansion Slots	1 PCI-E 2.0 x8 (-1105: PCI-E 3.0 x8) Slot 7 or Slot 6 option by jumper setting	1 PCI-E 3.0 x 16 1 Mini-PCI-E (mSATA support)	1 PCI-E 3.0 x16	1 PCI-E 3.0 x16 (2.0 for 3217UE)
Onboard RAID Controller	Intel® AHCI controller for 2 SATA2 (3Gb/s) ports	2x SATA 3.0 (6Gb/s) ports w/ RAID 0, 1 4x SATA 2.0 (3Gb/s) ports w/ RAID 0, 1, 5, 10 Quad LAN ports with 3 Intel® 82574L and one Intel® 82579LM Gigabit Ethernet Controllers	2x SATA 3.0 (6Gb/s) ports w/ RAID 0, 1 4x SATA 2.0 (3Gb/s) ports w/ RAID 0, 1, 5, 10	2x SATA 3.0 (6Gb/s) ports w/ RAID 0, 1; 4x SATA 2.0 (3Gb/s) ports w/ RAID 0, 1, 5, 10
Onboard LAN	6 GbE LAN ports with 4x Intel® i350 and 2x Intel® i210AT		Quad LAN ports with Intel® 82574L Gigabit Ethernet Controllers	Dual LAN ports with Intel® 82574L Gigabit Ethernet Controllers
Onboard VGA	N/A	Intel® HD 4000 Graphics DVI-I + HDMI + Display Port + eDP	BMC integrated Matrox G200; or, Intel® HD Graphics 4000 VGA	BMC integrated Matrox G200; or, Intel® HD Graphics 4000 VGA
USB Ports	5 USB 2.0 ports (2 rear + 2 via headers, 1 Type A) 1 SATA DOM power connector 2 COM ports (1 rear, 1 header) TPM header 2 pair LAN Bypass ports eUSB Stand Off	4 USB 3.0 ports (2 rear, 2 via header) 8 USB 2.0 ports (2 rear, 6 via headers) 1 SATA DOM power connector ALC 888S HD Audio 2 COM ports PS/2 Combo mouse and keyboard; TPM header SuperDoctor® 5, Watchdog, SSM, AMT 8.0, vPro Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of three 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header	4 USB 3.0 ports via headers 6 USB 2.0 ports (4 rear + 2 via headers) 1 SATA DOM power connector 2 fast UART 16550 serial ports (1 rear, 1 header) PS/2 mouse & keyboard TPM header IPMI 2.0 + KVM with dedicated LAN Watchdog, SSM, SuperDoctor® 5 Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of four 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header	4 USB 3.0 ports via headers 6 USB 2.0 ports (4 rear + 2 via headers) 1 SATA DOM power connector 2 fast UART 16550 serial ports (1 rear, 1 header) PS/2 mouse & keyboard TPM header IPMI 2.0 + KVM with dedicated LAN Watchdog, SSM, SuperDoctor® 5 Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of four 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header
Other Onboard I/O Devices				
Manageability	NMI, SuperDoctor® 5, SSM, Watchdog			
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V Standby, Chassis intrusion header, Supports system management utility, System level control			
Thermal Control	6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors	Overheat LED indication, thermal control tachometer fan connectors	Overheat LED indication, thermal control tachometer fan connectors	Overheat LED indication, thermal control tachometer fan connectors
Other Features	ACPI power management, ATX Power connector, CPU thermal trip support for Processor protection, System level control, WOL, Quad port programmable LAN bypass, 0°C - 60°C operating temperature, Intel® QuickAssist Technology	ACPI power management, WOL, control of power-on for recovery from AC power loss, Adaptive Thermal Monitor & CPU thermal trip support for Processor protection, Intel® Smart Response Technology, Intel® Rapid Storage Technology, 0°C - 60°C operating temperature	ACPI power management, WOL, control of power-on for recovery from AC power loss, Adaptive Thermal Monitor & CPU thermal trip support for Processor protection, Intel® Smart Response Technology, Intel® Rapid Storage Technology, 0°C - 55°C operating temperature	ACPI power management, WOL, control of power-on for recovery from AC power loss, Adaptive Thermal Monitor & CPU thermal trip support for Processor protection, Intel® Smart Response Technology, Intel® Rapid Storage Technology, 0°C - 55°C operating temperature
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

† Supermicro chassis required for optimal functionality and performance.
* For detailed memory configurations please refer to Supermicro website.

EMBEDDED

Embedded
H61 Chipset, 5 PCI slots
8 COM ports



Embedded



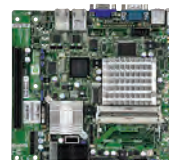
Embedded
D525 / DDR3



MODEL	C7H61 C7H61-L	C7Q67	X7SPA-H-D525 X7SPA-HF-D525
Processor†	3rd Generation Intel® Core™ Processors, 2nd Generation Intel® Core™ Processors, Intel® Pentium® Processor & Intel® Celeron® Processors in LGA 1155 Socket	2nd Generation Intel® Core™ Processors, Intel® Pentium® Processor & Intel® Celeron® Processors in LGA 1155 Socket	Intel® Atom™ Processor D525 , 1.8GHz (13W)
Chipset	Intel® H61 Express Chipset	Intel® Q67 Express Chipset	Intel® ICH9R chipset
Form Factor	ATX 12"W x 9.6"H	Micro-ATX 9.6"W x 9.6"H	Mini-ITX 6.7"W x 6.7"H
Optimized Chassis	Mid-Tower: SC732D2-500B SC733 4U Heatsink: SNK-P0051AP4 4U: SC842i-500B 4U Heatsink: SNK-P0051AP4	2U: SC825M 2U Heatsink: SNK-P0046A4 Mid-Tower: SC731D/i SC732D2/i SC733 4U Heatsink: SNK-P0051AP4	Mini 1U: SC502L, SC503L, SC510, SC512, SC504, SC505 Mini-Tower: SC731
Memory Capacity & Slots*	Up to 16GB of DDR3 1600/1333/1066 MHz Non-ECC UDIMM, in 2 slots	Up to 32GB DDR3 1333/1066 MHz Non-ECC UDIMM, in 4 sockets	4GB of Unb. non-ECC DDR3 800MHz SO-DIMM
Expansion Slots	1 PCI-E 3.0 x16 1 PCI-E 2.0 x1 5 PCI-32 slots	1 PCI-E 2.0 x16 1 PCI-E 2.0 x4 1 PCI-E 2.0 x1 1 PCI-32 slot	1 PCI-E x4 (in x16 slot)
Onboard RAID Controller	2x SATA 3.0 (6Gb/s) 4x SATA 2.0 (3Gb/s) ports	2x SATA 3.0 (6Gb/s) ports w/ RAID 0,1 4x SATA 2.0 (3Gb/s) ports w/ RAID 0,1,5,10	6 SATA ports RAID 0,1,5,10 RAID 0,1,10 (Linux)
Onboard LAN	Dual LAN with Intel® 82579V & 82574L Gigabit Ethernet controller	Dual LAN with Intel® 82579LM & 82574L Gigabit Ethernet controller	Dual LAN w/ Intel® 82574L Gigabit Ethernet
Onboard VGA	Intel® HD Graphics 4000 HDMI 1.4+Display Port + VGA	Intel® HD Graphics 3000 2x HDMI 1.4 + VGA	Intel® GMA 3150 (H version) Matrox G200eW 16MB (HF version)
USB Ports	10x USB 2.0 ports (6 rear+4 via headers) + 2x USB 3.0 headers (for C7H61 only)	2x USB 3.0 ports (rear) 10x USB 2.0 ports (4 rear+6 via headers)	Up to 8 USB 2.0 ports
Other Onboard I/O Devices	S/PDIF out & 7.1 HD audio 1x SATA DOM power connector TPM header PS/2 mouse & keyboard eUSB standoff 8 Fast UART 16550 Serial Ports (2 with RS422/485) (for C7H61 only)	S/PDIF out & 7.1 HD audio 1x SATA DOM power connector TPM onboard 2x fast UART 16550 serial PS/2 mouse & keyboard	2 serial (1 port & 1 header) 2 PS/2 ports DOM (Disk on Module) power connector
Manageability	Watchdog, SSM, SuperDoctor® 5	Watchdog, SSM, SuperDoctor® 5, AMT 7.0, vPro	IPMI 2.0 + KVM (F version), Watchdog, SuperDoctor® 5, SSM
PC Health Monitoring	Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of four 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header	Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of four 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.5V, +1.8V, +3.3V, +5V, +12V, VBAT & +3.3V standby and total of two 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header
Thermal Control	Overheat LED indication, thermal control tachometer fan connectors	Overheat LED indication, thermal control tachometer fan connectors	Thermal control tachometer fan connectors & overheat LED indication
Other Features	ACPI power management, WOL, control of power-on mode for recovery from AC power loss, Adaptive Thermal Monitor & CPU thermal trip support for Processor protection, 0°C ~ 60°C operating temperature	ACPI power management, WOL, control of power-on mode for recovery from AC power loss, Adaptive Thermal Monitor & CPU thermal trip support for Processor protection, Intel® Rapid Storage Technology	ACPI/APM power management, control of power-on mode for recovery from AC power loss, TM1 & CPU thermal trip support for Processor protection
BIOS	AMI UEFI	AMI UEFI	AMI 8 Mb SPI Flash ROM

† Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.



MODEL	X7SPE-H-D525 X7SPE-HF-D525	X7SPA-H X7SPA-HF	X7SPE-H X7SPE-HF
Processor [†]	Intel® Atom™ Processor D525, 1.8GHz (13W)	Intel® Atom™ Processor D510	Intel® Atom™ Processor D510
Chipset	Intel® ICH9R chipset	Intel® ICH9R chipset	Intel® ICH9R chipset
Form Factor	7.5"W x 6.7"H	Mini-ITX 6.7"W x 6.7"H	7.5"W x 6.7"H
Optimized Chassis	Mini 1U: SC502L, SC503L, SC510, SC512 Mini-Tower: SC731	Mini 1U: SC502L, SC503L, SC510, SC512, SC504, SC505 Mini-Tower: SC731	Mini 1U: SC502L, SC503L, SC510, SC512 Mini-Tower: SC731
Memory Capacity & Slots*	4GB of Unb. non-ECC DDR3 800MHz SO-DIMM	4GB of Unb. non-ECC DDR2 667MHz SO-DIMM	4GB of Unb. non-ECC DDR2 667MHz SO-DIMM
Expansion Slots	1 PCI-E x4 (in x16 slot)	1 PCI-E x4 (in x16 slot)	1 PCI-E x4 (in x16 slot)
Onboard RAID Controller	6 SATA ports RAID 0,1,5,10 RAID 0,1,10 (Linux)	6 SATA ports RAID 0,1,5,10 RAID 0,1,10 (Linux)	6 SATA ports RAID 0,1,5,10 RAID 0,1,10 (Linux)
Onboard LAN	Dual LAN w/ Intel® 82574L Gigabit Ethernet	Dual LAN w/ Intel® 82574L Gigabit Ethernet	Dual LAN w/ Intel® 82574L Gigabit Ethernet
Onboard VGA	Intel® GMA 3150 (H version) Matrox G200eW 16MB (HF version)	Intel® GMA 3150 (H version) Matrox G200eW 16MB (HF version)	Intel® GMA 3150 (H version) Matrox G200eW 16MB (HF version)
USB Ports	Up to 8 USB 2.0 ports	Up to 8 USB 2.0 ports	Up to 8 USB 2.0 ports
Other Onboard I/O Devices	2 serial (1 port & 1 header) 2 PS/2 ports DOM (Disk on Module) power connector	2 serial (1 port & 1 header) 2 PS/2 ports DOM (Disk on Module) power connector	2 serial (1 port & 1 header) 2 PS/2 ports DOM (Disk on Module) power connector
Manageability	IPMI 2.0 + KVM (F version), Watchdog, SuperDoctor® 5, SSM	IPMI 2.0 + KVM (F version), Watchdog, SuperDoctor® 5, SSM	IPMI 2.0 + KVM (F version), Watchdog, SuperDoctor® 5, SSM
PC Health Monitoring	Monitors CPU voltages, +1.5V, +1.8V, +3.3V, +5V, +12V, VBAT & +3.3V standby and total of two 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.5V, +1.8V, +3.3V, +5V, +12V, VBAT & +3.3V standby and total of two 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header	Monitors CPU voltages, +1.5V, +1.8V, +3.3V, +5V, +12V, VBAT & +3.3V standby and total of two 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header
Thermal Control	Thermal control tachometer fan connectors & overheat LED indication	Thermal control tachometer fan connectors & overheat LED indication	Thermal control tachometer fan connectors & overheat LED indication
Other Features	ACPI/APM power management, control of power-on mode for recovery from AC power loss, TM1 & CPU thermal trip support for Processor protection	ACPI/APM power management, control of power-on mode for recovery from AC power loss, TM1 & CPU thermal trip support for Processor protection	ACPI/APM power management, control of power-on mode for recovery from AC power loss, TM1 & CPU thermal trip support for Processor protection
BIOS	AMI 8 Mb SPI Flash ROM	AMI 8 Mb SPI Flash ROM	AMI 8 Mb SPI Flash ROM

[†] Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

WORKSTATION



MODEL	X11SPA-TF		X11SPA-T	
Processor	2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors Single Socket LGA-3647 (Socket P) supported, CPU TDP supports Up to 205W TDP		2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors, Intel® Xeon® W-32xx Processor Single Socket LGA-3647 (Socket P) supported, CPU TDP supports 205W TDP	
Chipset	Intel® C621		Intel® C621	
Form Factor	E-ATX, 12" x 13" (30.48cm x 33.02cm)		E-ATX, 12" x 13" (30.48cm x 33.02cm)	
Optimized Chassis	SC SC732D3-1200B SC732D3-903B ● SC743AC-1200B-SQ SC743AC-668B SC743TQ-903B SC745BAC-R1K28B2 SC745BTQ-R1K28B-SQ		SC SC732D3-1200B SC732D3-903B ● SC743AC-1200B-SQ SC743TQ-1200B-SQ SC743AC-668B SC745BAC-R1K28B2 SC745BTQ-R1K28B-SQ SC747BTQ-R1K62B	
Memory Capacity & Slots*	Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 3TB 3DS ECC LRDIMM, DDR4-2933MHz Up to 3TB Intel® Optane™ Persistent Memory 200 Series, DDR4-2666MHz, in 12 DIMM slots		Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-2933MHz Up to 3TB Intel® Optane™ Persistent Memory 200 Series, DDR4-2666MHz, in 12 DIMM slots; Xeon-W 32xx supports up to 2TB 3DS ECC RDIMM/LRDIMM, Xeon-W 32xx supports up to 1TB 3DS RDIMM/LRDIMM. ; Xeon-W32xx series processors don't support DCPMM.	
Expansion Slots	4 PCI-E 3.0 x16, 3 PCI-E 3.0 x8 (in x16 slot), PCI-Ex16 Slot#1 shares with M.2, Slot#2 shares with Slot#3(NA/16,8/8), Slot#4 shares with Slot#5(NA/16,8/8), Slot#6 shares with Slot#7(NA/16,8/8) M.2 Interface: 4 PCI-E 3.0 x4, RAID 0 & 1 M.2 Form Factor: 2242/2260/2280/22110 M.2 Key: M-Key M.2 support RAID 0,1(up to RAID 5, 10), VROC key is required for Raid.		4 PCI-E 3.0 x16, 3 PCI-E 3.0 x8 (in x16 slot), PCI-Ex16 Slot#1 shares with M.2, Slot#2 shares with Slot#3(NA/16,8/8), Slot#4 shares with Slot#5(NA/16,8/8), Slot#6 shares with Slot#7(NA/16,8/8) (16/NA/16/NA/16/NA/16 or 16/8/8/8/8/8/8) M.2 Interface: 4 PCI-E 3.0 x4, RAID 0 & 1 M.2 Form Factor: 2242/2260/2280/22110 M.2 Key: M-Key M.2 support RAID 0,1(up to RAID 5, 10), VROC key is required for Raid.	
Onboard RAID Controller	Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10		Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	
Onboard LAN	Single LAN with Intel® Ethernet Controller I210-AT Single LAN with Aquantia® AQC107 10G Ethernet Controller Single LAN with Realtek RTL8211E PHY (dedicated IPMI)		Single LAN with Intel® Ethernet Controller I210-AT Single LAN with Aquantia® AQC107 10G Ethernet Controller Single LAN with Realtek RTL8211E PHY (dedicated IPMI)	
Onboard VGA	1 VGA port, VGA connector is dedicated for IPMI., ASPEED AST2500 BMC		1 VGA port, VGA connector is dedicated for IPMI., ASPEED AST2500 BMC	
USB Ports	2 USB 2.0 ports (2 via headers) 6 USB 3.1 Gen1 ports (4 Rears Type A, 2 via headers) 4 USB 3.1 Gen2 ports (1 Rear Type A + 1 Rear Type C, 1 Type A + 1 Type C)		2 USB 2.0 ports (2 via headers) 6 USB 3.1 Gen1 ports (4 Rears Type A, 2 via headers) 4 USB 3.1 Gen2 ports (1 Rear Type A + 1 Rear Type C, 1 Type A + 1 Type C)	
Other Onboard I/O Devices	ALC 888S HD Audio TPM 2.0 Header 2 COM Ports (1 rear, 1 header)		ALC 888S HD Audio TPM 2.0 Header 2 COM Ports (1 rear, 1 header)	
Manageability	IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SPM, SUM, SuperDoctor® 5, Watchdog		IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SPM, SUM, SuperDoctor® 5, Watchdog	
PC Health Monitoring	+1.8V, +12V, +3.3V, +5V, +5V standby, 10 -fan status, 3.3V standby, HT, Memory, VBAT		+1.8V, +12V, +3.3V, +5V, +5V standby, 10 -fan status, 3.3V standby, HT, Memory, VBAT	
Thermal Control				
Other Features	Chassis intrusion header, CPU thermal trip support for processor protection, Dual Cooling Zones, Intel Smart Response Technology, RoHS, UID, WOL		Chassis intrusion header, CPU thermal trip support for processor protection, Dual Cooling Zones, Intel Smart Response Technology, RoHS, UID, WOL	
BIOS	256Mb SPI Flash with AMI BIOS		256Mb SPI Flash with AMI BIOS	

* For detailed memory configurations please refer to Supermicro website.

† 2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro.

†† For 2nd Generation Intel® Xeon® Scalable processors (Cascade Lake-SP Refresh / Cascade Lake-SP) only. Contact your Supermicro sales rep for more info.

WORKSTATION

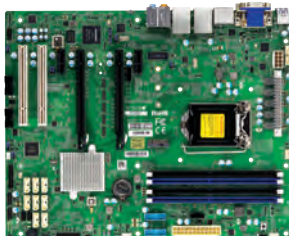


vPro AMT/IPMI,
USB 3.1

vPro AMT,
USB 3.1

Thunderbolt
vPro AMT/IPMI

Workstation



MODEL	X11SAE X11SAE-F	X11SAE-M	X11SAT X11SAT-F	X11SRA X11SRA-F X11SRA-RF
Processor[†]	Intel® Xeon® Processor E3-1200 v6/v5 product family, 7th/6th Generation Intel® Core™ Processors, Intel® Celeron® Processor, Intel® Pentium® Processor, Single Socket H4 (LGA 1151) supported; CPU TDP support 95W	Intel® Xeon® Processor E3-1200 v6/v5 product family, 7th/6th Generation Intel® Core™ Processors, Intel® Celeron® Processor, Intel® Pentium® Processor, Single Socket H4 (LGA 1151) supported; CPU TDP support 95W	Intel® Xeon® Processor E3-1200 v6/v5 product family, 7th/6th Generation Intel® Core™ Processors, Intel® Celeron® Processor, Intel® Pentium® Processor, Single Socket H4 (LGA 1151) supported; CPU TDP support 95W	Intel® Xeon® W-2100 Processors, Intel® Xeon® W-2200 Processors Single Socket LGA-2066 (Socket R4) supported, CPU TDP supports Up to 165W TDP
Chipset	Intel® C236	Intel® C236	Intel® C236	Intel® C422
Form Factor	ATX 12" x 9.6"	MicroATX 9.6" x 9.6"	ATX 12" x 9.6"	ATX, 12" x 9.6" (30.48cm x 24.38cm)
Optimized Chassis	- SC 7732D4-903B - SC732D4-865B 2U Heatsink: SNK-P0046A4 - SC743TQ-1200B-SQ 2U Heatsink: SNK-P0046A4	- SC732D4-500B - SC731i-300B 2U Heatsink: SNK-P0046A4	- SC732D4-903B - SC732D4-865B 2U Heatsink: SNK-P0046A4 - SC743TQ-1200B-SQ 2U Heatsink: SNK-P0046A4	- SC732D3-903B - SC732D3-1200B - G55A-753K - S5A-753R - SC743AC-668B - SC743AC-1200B-SQ - SC743TQ-865B-SQ
Memory Capacity & Slots*	64GB ECC/Non-ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	64GB ECC/Non-ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	64GB ECC/Non-ECC UDIMM, DDR4-2400 MHz, in 4 DIMM slots	Up to 512GB Registered ECC RDIMM, DDR4-2666MHz; Up to 1TB Registered ECC LRDIMM, DDR4-2666MHz, in 8 DIMM slots(DDR4-2933MHz: RDIMM Max. Memory Capacity 256GB Registered ECC, LRDIMM Max. Memory Capacity 512GB Registered ECC)
Expansion Slots	X11SAE: 2 PCI-E 3.0 x16, 3 PCI-E 3.0 x1, 2 - 5V PCI 32bit; X11SAE-F: 2 PCI-E 3.0 x16, 2 PCI-E 3.0 x1, 2 - 5V PCI 32bit; 2 PCI-E x16 slots are running at 16/NA or 8/8	1 PCI-E 3.0 x16 1 PCI-E 3.0 x4 1 - 5V PCI 32bit	3 PCI-E 3.0 x16* 1 PCI-E 3.0 x1** 1 - 5V PCI 32bit	Up to 512GB Registered ECC RDIMM, DDR4-2666MHz; Up to 1TB Registered ECC LRDIMM, DDR4-2666MHz, in 8 DIMM slots(DDR4-2933MHz: RDIMM Max. Memory Capacity 256GB Registered ECC, LRDIMM Max. Memory Capacity 512GB Registered ECC) 3 PCI-E 3.0 x16, 1 PCI-E 3.0 x4 ***3xPCI-E3.0x16 Slots(8/16/16 (Skylake-W 48 lanes), 1xPCI-E3.0x4 slots*** M.2 Interface: 2 PCI-E 3.0 x4 M.2 Form Factor: 22110 M.2 Key: M-Key (RAID 0,1 support) *M-Key for SSD and Optane(up to Intel POR). Intel VROC Hardware license Key is needed to enable RAID function. U.2 Interface: 2 PCI-E 3.0 x4 Intel® C422 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10 *IRST enabled, only SATA2 to SATA5 support RAID. Single LAN with Intel® PHY I219LM LAN controller Single LAN with Aquantia 5G LAN chip AQC108 Single LAN with Intel® Ethernet Controller I210-AT Single LAN with Aquantia 5G LAN chip AQC108
Onboard RAID Controller	Intel® C236 controller for 8 SATA3 (6Gb/s) ports; RAID 0,1,5,10 + 1 PCI-E M.2 (PCI-E x4, 2242/2260/2280)(No Raid support)	Intel® C236 controller for 8 SATA3 (6Gb/s) ports; RAID 0,1,5,10 + 1 PCI-E M.2 (PCI-E x4, 2242/2260/2280/22110) (No Raid Support)	Intel® C236 controller for 6 SATA3 (6Gb/s) ports; RAID 0,1,5,10 + 1 PCI-E M.2 (PCI-E x4, 2260/2280)(No Raid Support)	Intel® C422 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10 *IRST enabled, only SATA2 to SATA5 support RAID.
Onboard LAN	Single LAN with Intel® Ethernet Controller i210-AT (Share with IPMI); Single LAN with Intel® PHY I219LM LAN controller	Single LAN with Intel® Ethernet Controller i210-AT; Single LAN with Intel® PHY I219LM LAN controller	Single LAN with Intel® Ethernet Controller i210-AT (share with IPMI) + Single Intel® Ethernet PHY I219LM	Single LAN with Intel® PHY I219LM LAN controller Single LAN with Aquantia 5G LAN chip AQC108 Single LAN with Intel® Ethernet Controller I210-AT Single LAN with Aquantia 5G LAN chip AQC108
Onboard VGA	1 DVI-D 1 DP (DisplayPort) 1 HDMI 1 VGA VGA is for IPMI only	1 DVI-D 1 DP (DisplayPort) 1 HDMI DP support up to DP1.2, HDMI support up to HDMI 1.4	1 DVI-D 1 DP (DisplayPort) 1 HDMI 1 VGA***	1 DVI-D 1 DP (DisplayPort) 1 HDMI 1 VGA***
USB Ports	6 USB 3.0 ports (2 rear + 4 via header) 2 USB 3.1 ports (2 rear) X11SAE: 8 USB 2.0 ports (2 rear + 6 via headers) X11SAE-F: 6 USB 2.0 ports (2 rear + 4 via headers)	6 USB 3.0 ports (2 rear + 4 via header) 6 USB 2.0 ports (2 rear + 4 via headers) 2 USB 3.1 (10 Gb/s) ports (2 Rear)	6 USB 3.0 ports (2 rear + 4 via header) 4 USB 2.0 ports (2 rear + 2 via headers) 1 USB 3.1 (10 Gb/s) Type C ports (Rear, share with Thunderbolt™ and Display port)	6 USB 2.0 ports (2 rear + 4 via headers) 6 USB 3.2 Gen1 ports (4 rear + 2 via headers) 2 USB 3.2 Gen2 ports (2 Type A)
Other Onboard I/O Devices	Ext. Power Connector Only ALC 8885 HD Audio TPM 1.2 onboard Header 2 COM Ports (2 headers)	Ext. Power Connector Only ALC 8885 HD Audio TPM 1.2 onboard Header 1 COM Port (1 header) Thunderbolt™ ALC 2.0/3.0	Ext. Power Connector Only ALC 8885 HD Audio TPM 1.2 onboard Header 1 COM Port (1 header) TBT 3.0 on board	Ext. Power Connector Only ALC 1220 7.1 HD Audio PS/2 mouse and keyboard TPM 2.0 Header 1 COM Port (1 header)
Manageability	-F: IPMI 2.0 + KVM; Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor™ 5, Watch Dog AMT vPro (non-F)	AMT SuperDoctor™ 5, Watchdog, SSM, vPro	-F: IPMI 2.0 + KVM; Intel® Node Manager, NMI SPM, SUM, SSM, SuperDoctor™ 5, Watch Dog AMT vPro (non-F)	AMT, SuperDoctor™ 5, Watchdog -F-RF: IPMI2.0, SuperDoctor™ 5, Watchdog
PC Health Monitoring	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, VBAT	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, VBAT	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 5 (4-pin), Chassis intrusion header, Monitors CPU voltages, Monitors for CPU Cores, System temperature, VBAT
Thermal Control	5 4-pin, Fan speed control, Overheat LED indication	5 4-pin, Fan speed control, Overheat LED indication	5 4-pin, Fan speed control, Overheat LED indication	ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel Smart Response Technology, RoHS, Voltage and Frequency Overclocking, WOL
Other Features	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Intel® Smart Response Technology, WOL	8-pin 12v DC power connector, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Intel® Smart Response Technology, WOL	8-pin 12v DC power connector, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for Processor protection, Intel® Smart Response Technology, WOL	ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel Smart Response Technology, RoHS, Voltage and Frequency Overclocking, WOL
BIOS	AMI UEFI	AMI UEFI	AMI UEFI	UEFI 256Mb

[†] Supermicro chassis required for optimal functionality and performance

* Please check with your Supermicro sales representative and website for compatibility and configuration details

** PCI-E x16 slots are running at 16/NA/16 or 16/8/8.

*** PCI-E x1 is in x4 slot

**** Display Port is Type C connector, support up to DP1.2, HDMI support up to HDMI 1.4, VGA is for IPMI only

Desktop
Overclock



Desktop
Overclock, WiFi



Desktop



Desktop
Overclock, WiFi



MODEL	C9Z590-CG	C9Z590-CGW	C9Z490-PG	C9Z490-PGW
Processor	11th Generation Intel® Core™ Processors (i3/i5/i7/i9), Pentium® and Celeron® Processors Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 125W TDP	11th Generation Intel® Core™ Processors (i3/i5/i7/i9), Pentium® and Celeron® Processors Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 125W TDP	10th Generation Intel® Core™ i9/ Core™ i7/Core™ i5/Core™ i3/Pentium®/ Celeron® Processor Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 140W TDP	10th Generation Intel® Core™ i9/ Core™ i7/Core™ i5/Core™ i3/Pentium®/ Celeron® Processor Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 140W TDP
Chipset	Intel® Z590	Intel® Z590	Intel® Z490	Intel® Z490
Form Factor	ATX, 12" x 9.6" (30.48cm x 24.38cm)	ATX, 12" x 9.6" (30.48cm x 24.38cm)	ATX, 12" x 9.6" (30.48cm x 24.38cm)	ATX, 12" x 9.6" (30.48cm x 24.38cm)
Optimized Chassis	-GS5A-754K -GS5A-753B 732D3-1200B 732D3-903B	-GS5A-754K -GS5A-753B 732D3-1200B 732D3-903B	GS5A-754K GS5A-753B	GS5A-754K GS5A-753B
Memory Capacity & Slots	Up to 128GB Unbuffered non-ECC UDIMM, DDR4-3200MHz, in 4 DIMM slots	Up to 128GB Unbuffered non-ECC UDIMM, DDR4-3200MHz, in 4 DIMM slots	Up to 128GB Unbuffered non-ECC UDIMM, DDR4-2933MHz, in 4 DIMM slots ; 2933 MHz to 4000+MHz(OC) in four 288-pin memory slots.	Up to 128GB Unbuffered non-ECC UDIMM, DDR4-2933MHz, in 4 DIMM slots 2933 MHz to 4000+MHz(OC) in four 288-pin memory slots.
Expansion Slots	2 PCI-E 4.0 x16 slots (16/NA or 8/8)2 PCI-E 3.0 x1 2xPCI-E 4.0x16 Slots (Slot#4 and Slot#6 can be configured as 16/NA, 8/8) M.2 Interface: 1 PCI-E 4.0 x4 and 2 PCI-E 3.0 x4 M.2 Form Factor: 2260/2280/22110 M.2 Key: M-Key 2 attached to PCH by PCI-E3.0x 4, 1 attached to CPU by PCI-E4.0x 4 (For RAID 5, PCI-E M2-M3 M.2 slot support Intel NVMe devices only; C9Z590-CG(W) support RAID 0,1 and 5 by RSTe software RAID)	2 PCI-E 4.0 x16 slots (16/NA or 8/8)2 PCI-E 3.0 x1 M.2 Interface: 2 PCI-E 3.0 x4 and 1 PCI-E 4.0 x4 M.2 Form Factor: 2260/2280/22110 M.2 Key: M-Key 2 attached to PCH by PCI-E3.0x 4, 1 attached to CPU by PCI-E4.0x 4 (For RAID 5, PCI-E M2-M3 M.2 slot support Intel NVMe devices only; C9Z590-CG(W) support RAID 0,1 and 5 by RSTe software RAID)	4 PCI-E 3.0 x16 slots (16/NA/16/NA or 8/8/8/8), 1 PCI-E 3.0 x1 M.2 Interface: 2 PCI-E 3.0 x4, RAID 0 & 1 M.2 Form Factor: 2260/2280/22110 M.2 Key: M-Key RSTe software raid 2 M.2 M-Key PCI-E 3.0 x4, 2260/2280/22110	4 PCI-E 3.0 x16 slots (16/NA/16/NA or 8/8/8/8), 1 PCI-E 3.0 x1 M.2 Interface: 2 PCI-E 3.0 x4, RAID 0 & 1 and 1 CNVi, RAID 0 & 1 M.2 Form Factor: 2260/2280/22110 M.2 Key: M-Key, E-Key RSTe software raid; M.2-E1 port pre-installed one Intel Wi-Fi 6(802.11ax)+BT5.1 module 2 M.2 M-Key PCI-E 3.0 x4, 2260/2280/22110
Onboard RAID Controller				
Onboard LAN	Single LAN with Intel® single Ethernet PHY i219V 1Gb Single LAN with Marvell AQC113C 10Gb	Single LAN with Intel® single Ethernet PHY i219V 1Gb Single LAN with Marvell AQC113C 10Gb	Single LAN with Intel® single Ethernet PHY i219V Single LAN with Aquantia® AQC107 10G Ethernet Controller	Single LAN with Intel® single Ethernet PHY i219V Single LAN with Aquantia® AQC107 10G Ethernet Controller
Onboard VGA	1 HDMI port, 1 DP (DisplayPort) port, DP version 1.4, HDMI version 2.0b,	1 HDMI port, 1 DP (DisplayPort) port, DP version 1.4a, HDMI version 2.0b,	1 DP (DisplayPort) port, 1 HDMI port, DP version 1.4, HDMI version 2.0a,	1 DP (DisplayPort) port, 1 HDMI port, DP version 1.4, HDMI version 2.0a,
USB Ports	6 USB 2.0 ports (4 rear + 2 via headers) 2 USB 3.2 Gen1 ports (2 via headers) 2 USB 3.2 Gen2 ports (2 Rear Type A 3 USB 3.2 Gen2x2 ports (2 Type C)	6 USB 2.0 ports (4 rear + 2 via headers) 2 USB 3.2 Gen1 ports (2 via headers) 2 USB 3.2 Gen2 ports (2 Rear Type A 3 USB 3.2 Gen2x2 ports (2 Type C)	4 USB 2.0 ports (4 via headers) 4 USB 3.2 Gen1 ports (2 via headers + 2 Type A) 4 USB 3.2 Gen2 ports (2 Rear Type A + 1 Rear Type C, 1 via header) 1 USB 3.2 Gen2x2 ports (1 Type C)	4 USB 2.0 ports (4 via headers) 4 USB 3.2 Gen1 ports (2 via headers + 2 Type A) 4 USB 3.2 Gen2 ports (2 Rear Type A + 1 Rear Type C, 1 via header) 1 USB 3.2 Gen2x2 ports (1 Type C)
Other Onboard I/O Devices	ALC 1220 7.1 HD Audio TPM 2.0 Header 1 COM Port (1 header)	ALC 1220 7.1 HD Audio TPM 2.0 Header 1 COM Port (1 header)	ALC 1220 HD Audio TPM 2.0 Header 1 COM Port (1 header)	ALC 1220 HD Audio TPM 2.0 Header 1 COM Port (1 header)
Manageability	SuperDoctor® 5	SuperDoctor® 5	SuperDoctor® 5, Watchdog	SuperDoctor® 5, Watchdog
PC Health Monitoring	+1.0V PCH, +1.8V PCH, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 3.3V standby, 5 (4-pin), CPU, CPU temperature, CPU thermal trip support, PCH temperature, System temperature, VBAT, VRM temperature	+1.0V PCH, +1.8V PCH, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 3.3V standby, 5 (4-pin), CPU, CPU temperature, CPU thermal trip support, PCH temperature, System temperature, VBAT, VRM temperature	+1.0V PCH, +1.8V PCH, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 3.3V standby, 5 (4-pin), CPU, CPU temperature, CPU thermal trip support, Memory, Memory temperature, PCH temperature, System temperature, VBAT, VRM temperature	+1.0V PCH, +1.8V PCH, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH), 3.3V standby, 5 (4-pin), CPU, CPU temperature, CPU thermal trip support, Memory, Memory temperature, PCH temperature, System temperature, VBAT, VRM temperature 2 CPU Fan header and 3 system Fan header and 1 water cooler power connector
Other Features	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, RoHS, Voltage and Frequency Overclocking, WOL	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, RoHS, Voltage and Frequency Overclocking, WOL	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, RoHS, Voltage and Frequency Overclocking, WOL	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, RoHS, Voltage and Frequency Overclocking, WOL
BIOS	256Mb SPI Flash with AMI BIOS	256Mb SPI Flash with AMI BIOS	256Mb SPI Flash with AMI BIOS	256Mb SPI Flash with AMI BIOS

Overclock



Overclock, IPMI



Overclock



Overclock



MODEL	C9X299-PG300	C9X299-PG300F	C9X299-PGF	C9X299-RPGF
Processor[†]	Intel [®] Core [™] i7 X-series Processor, Intel [®] Core [™] i9 Extreme X-series Processor, Intel [®] Core [™] i9 X-series Processor. Single Socket R4 (LGA 2066) supported, CPU TDP support up to 165W TDP	Intel [®] Core [™] i7 X-series Processor, Intel [®] Core [™] i9 Extreme X-series Processor, Intel [®] Core [™] i9 X-series Processor. Single Socket R4 (LGA 2066) supported, CPU TDP support up to 165W TDP	Intel [®] Core [™] i7 X-series Processor, Intel [®] Core [™] i9 Extreme X-series Processor, Intel [®] Core [™] i9 X-series Processor. Single Socket R4 (LGA 2066) supported, CPU TDP support up to 165W TDP	Intel [®] Core [™] i7 X-series Processor, Intel [®] Core [™] i9 Extreme X-series Processor, Intel [®] Core [™] i9 X-series Processor. Single Socket R4 (LGA 2066) supported, CPU TDP support up to 165W TDP
Chipset	Intel [®] X299	Intel [®] X299	Intel [®] X299	Intel [®] X299
Form Factor	ATX, 12" x 9.6" (30.48cm x 24.38cm)	ATX, 12" x 9.6" (30.48cm x 24.38cm)	ATX, 12" x 9.6" (30.48cm x 24.38cm)	ATX, 12" x 9.6" (30.48cm x 24.38cm)
Optimized Chassis	• SCG55A-753K • SCG55A-753R • SC732D3-903B • SC732D3-1200B	• SCG55A-753K • SCG55A-753R • SC732D3-903B • SC732D3-1200B	• SCG55A-753K • SCG55A-753R • SC732D3-903B • SC732D3-1200B	• SC732i-865B • SC732i-500B • SC743TQ-865B-SQ
Memory Capacity & Slots*	128GB Unbuffered non-ECC UDIMM, DDR4-2666 MHz, in 8 DIMM slots	128GB Unbuffered non-ECC UDIMM, DDR4-2666 MHz, in 8 DIMM slots	128GB Unbuffered non-ECC UDIMM, DDR4-2666 MHz, in 8 DIMM slots	128GB Unbuffered non-ECC UDIMM, DDR4-2666 MHz, in 8 DIMM slots ***Memory overclocking is not warranty, it is up to the capability of CPU and memory***
Expansion Slots	4 PCI-E 3.0 x16 ***4xPCI-E 3.0 x16 Slots(8/NA/16/16 or 8/8/8/16(Core i9) or NA/4/8/16(Core i7)*** M.2 Interface: 2 PCI-E 3.0 x4, RAID 0 & 1 M.2 Form Factor: 2280, 2280/22110 M.2 Key: M-Key M-Key for SSD and Optane; Intel VROC licence kit is needed to enable RAID. U.2 Interface: 2 PCI-E 3.0 x4	4 PCI-E 3.0 x16 ***4xPCI-E 3.0 x16 Slots(8/NA/16/16 or 8/8/8/16(Core i9) or NA/4/8/16(Core i7)*** M.2 Interface: 2 PCI-E 3.0 x4, RAID 0 & 1 M.2 Form Factor: 2280 M.2 Key: M-Key M-Key for SSD and Optane; Intel VROC licence kit is needed to enable RAID. U.2 Interface: 2 PCI-E 3.0 x4	4 PCI-E 3.0 x16, 1 PCI-E 3.0 x1 ***4xPCI-E 3.0 x16 Slots(8/NA/16/16 or 8/8/8/16 or NA/4/8/16(Skylake-X 28 Lanes), 1xPCI-E 3.0x1 slots*** M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2280, 22110 M.2 Key: M-Key (RAID 0,1 support) M-Key for SSD and Optane; Intel VROC licence kit is needed to enable RAID. U.2 Interface: PCI-E 3.0 x4	4 PCI-E 3.0 x16, 1 PCI-E 3.0 x1 ***4xPCI-E 3.0 x16 Slots(8/NA/16/16 or 8/8/8/16 or NA/4/8/16(Skylake-X 28 Lanes), 1xPCI-E 3.0x1 slots*** M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2280, 22110 M.2 Key: M-Key (RAID 0,1 support) M-Key for SSD and Optane; Intel VROC licence kit is needed to enable RAID. U.2 Interface: PCI-E 3.0 x4
Onboard RAID Controller	6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Onboard LAN	Single LAN with Intel [®] single Ethernet PHY i219V Single LAN with Aquantia [®] AQC107 10G Ethernet Controller	Single LAN with Intel [®] Ethernet Controller I210-AT Single LAN with Aquantia [®] AQC107 10G Ethernet Controller	Single LAN with Intel [®] Ethernet Controller I210-AT Single LAN with Aquantia 5G LAN chip AQC108	Single LAN with Intel [®] Ethernet Controller I210-AT Single LAN with Aquantia 5G LAN chip AQC108
Onboard VGA		1 VGA port, Aspeed AST2500 BMC	1 VGA port	1 VGA port
USB Ports	4 USB 2.0 ports (2 rear + 2 headers) 6 USB 3.0 ports (4 rear + 2 headers) 2 USB 3.1 ports (1 Type A, 1 Type C)	4 USB 2.0 ports (2 rear + 2 headers) 4 USB 3.0 ports (2 rear + 2 headers) 2 USB 3.1 ports (1 Type A, 1 Type C)	4 USB 2.0 ports (4 headers, Type A) 4 USB 3.0 ports (2 rear + 2 headers) 4 USB 3.1 ports (3 Type A, 1 Type C)	4 USB 2.0 ports (4 headers, Type A) 4 USB 3.0 ports (2 rear + 2 headers) 4 USB 3.1 ports (3 Type A, 1 Type C)
Other Onboard I/O Devices	ALC 1220 HD Audio PS/2 mouse and keyboard TPM 2.0 Header 1 COM Port (1 header)	ALC 1220 HD Audio PS/2 mouse and keyboard TPM 2.0 Header 1 COM Port (1 header)	Ext. Power Connector Only ALC 1220 HD Audio PS/2 mouse and keyboard TPM 2.0 Header 1 COM Port (1 header)	Ext. Power Connector Only PS/2 mouse and keyboard TPM 2.0 Header 1 COM Port (1 header)
Manageability	SuperDoctor [®] 5, Watchdog +12V, +3.3V, +5V, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, Chassis intrusion header, Monitors CPU voltages, VBAT	IPMI2.0, SuperDoctor [®] 5, Watchdog +12V, +3.3V, +5V, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, Chassis intrusion header, Monitors CPU voltages, VBAT	SuperDoctor [®] 5, Watchdog +12V, +3.3V, +5V, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, Chassis intrusion header, Monitors CPU voltages, VBAT	SuperDoctor [®] 5, Watchdog +12V, +3.3V, +5V, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, Chassis intrusion header, Monitors CPU voltages, VBAT
PC Health Monitoring	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, PWM fan speed control, Thermal control tachometer fan connectors	5x 4-pin fan headers (up to 6 fans), Fan speed control, Overheat LED indication, PWM fan speed control, Thermal control tachometer fan connectors	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, PWM fan speed control, Thermal control tachometer fan connectors	5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, PWM fan speed control, Thermal control tachometer fan connectors
Thermal Control	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel Smart Response Technology, Voltage and Frequency Overclocking, WOL	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel Smart Response Technology, Voltage and Frequency Overclocking, WOL	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel Smart Response Technology, Voltage and Frequency Overclocking, WOL	ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Intel Smart Response Technology, Voltage and Frequency Overclocking, WOL
Other Features	UEFI 128Mb	UEFI 128Mb	UEFI 128Mb	UEFI 128Mb
BIOS	UEFI 128Mb	UEFI 128Mb	UEFI 128Mb	UEFI 128Mb

*3 PCI-E x16 slots are running at 16/NA/16 or 16/8/8.

**PCI-E x1 is in x4 slot

***Display Port is Type C connector, support up to DP1.2, HDMI support up to HDMI 1.4, VGA is for IPMI only

DESKTOP

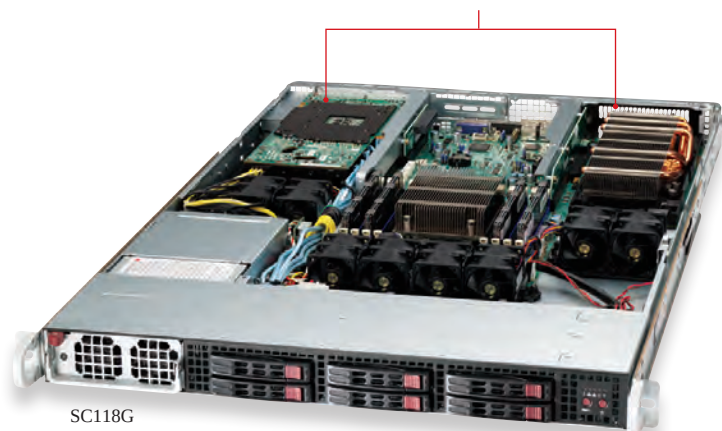


MODEL	C7C242-CB-M	C7C242-CB-MW
Processor†	8th Generation Intel® Core™ i7/i5/i3/Pentium®/Celeron® Processor, Intel® Xeon® Processor E-2100/E-2200 series. Single Socket H4 (LGA 1151) supported, CPU TDP support up to 95W TDP	8th Generation Intel® Core™ i7/i5/i3/Pentium®/Celeron® Processor, Intel® Xeon® Processor E-2100/E-2200 series. Single Socket H4 (LGA 1151) supported, CPU TDP support up to 95W TDP
Chipset	Intel® C242 Express PCH	Intel® C242 Express PCH
Form Factor	Micro-ATX, 9.6" x 9.6" (24.38cm x 24.38cm)	microATX, 9.6" x 9.6" (24.38cm x 24.38cm)
Optimized Chassis	• 731i-300B • 731i-403B • DS3A-261B	• 731i-300B • 731i-403B • DS3A-261B
Memory Capacity & Slots*	Up to 64GB DDR4 ECC/non-ECC UDIMM, DDR4-2666 MHz, in 4 DIMM slots	Up to 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2666 MHzUp to , in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 (in x16 slot), 3 PCI-E 3.0 x1 M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2242/2260/2280 M.2 Key: M-Key	1 PCI-E 3.0 x16, 3 PCI-E 3.0 x1 M.2 Interface: 1 PCI-E 3.0 x4 M.2 Form Factor: 2242/2260/2280 M.2 Key: M-Key, E-Key E Key for CNVi WiFi only
Onboard RAID Controller	Intel® C242 controller for 6 SATA3 (6 Gbps) ports;	Intel® C242 controller for 6 SATA3 (6 Gbps) ports;
Onboard LAN	Single LAN with Intel® PHY I219LM LAN controller	Single LAN with Intel® PHY I219LM LAN controller
Onboard VGA		
USB Ports	5 USB 2.0 ports (3 rear + 2 headers) 3 USB 3.0 ports (1 rear + 2 headers) 2 USB 3.1 ports (2 rears (1 Type A + 1 Type C); USB 3.0 Gen1 Type C header x1	5 USB 2.0 ports (3 rear + 2 headers) 3 USB 3.0 ports (1 rear + 2 headers) 2 USB 3.1 ports (2 rears (1 Type A + 1 Type C); 1 USB 3.1 Gen.1 type C header (USB 3.0)
Other Onboard I/O Devices	RealTek ALC888 7.1 High Definition Audio with S/PDIF header TPM 1.2 Header 1 COM Port (1 header)	RealTek ALC888 7.1 High Definition Audio with S/PDIF header TPM 1.2 Header 1 COM Port (1 header)
Manageability	AMT, SuperDoctor® 5, vPro	SuperDoctor® 5
PC Health Monitoring	+1.8V, +3.3V, +5V standby, Chassis intrusion header, HT, VBAT	+1.8V, +3.3V, +5V, +5V standby, HT, Memory, VBAT
Thermal Control	3x 4-pin fan headers (up to 3 fans), Fan speed control, PWM fan speed control	3x 4-pin fan headers (up to 3 fans), 3 fans with tachometer monitoring
Other Features	ATX Power connector, Chassis intrusion header	Chassis intrusion header
BIOS	UEFI 256Mb	UEFI 256Mb

† Supermicro chassis required for optimal functionality and performance.

* For detailed memory configurations please refer to Supermicro website.

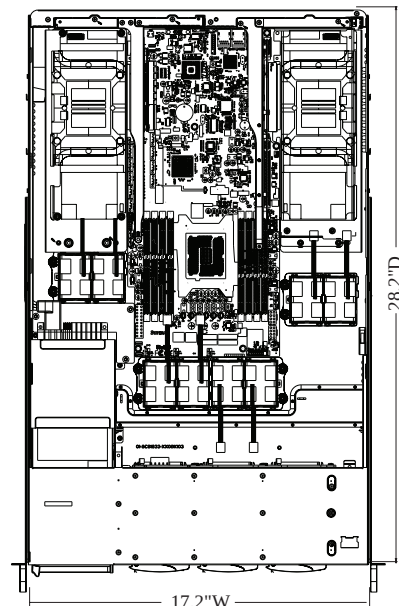
Supports 2 Double-Width GPU/Coprocessor



SC118G



SC118G Rear View



■ Black

Features

- ✓ 1400W **Platinum Level** (94%+)/1400W **Gold Level** (92%+) high-efficiency power supply
- ✓ Optimized for high-end, high-density GPU/Coprocessor applications
- ✓ Supports up to 2 double width GPUs and 1 low-profile add-on card; or 4 full-height and 1 low-profile add-on cards

Specifications

Form Factor	1U Rackmount Chassis 28.5" depth, optimized for proprietary 16.64" x 7.71" and 16.4" x 7.45" GPU/Coprocessor motherboards
CPU Support	Single Intel® Processor
Expansion	Up to 2x double width GPU/Coprocessor with 1x Low-profile card or 4x Full-height, 1x Low-profile AOC
Drive Bays	6x 2.5" hot-swap SAS/SATA HDD bays
Power Supply	1400W Platinum Level (94%+)/1400W Gold Level (92%+) high-efficiency power supply
Cooling System	8x 4cm high-performance counter-rotating PWM fans with optimal fan speed control
Front Panel LEDs	Power LED, HDD activity LED, 2 Network Activity LEDs and Fan Fail/Over Heat LED
Front Panel Buttons	Power On/Off button, system reset button
Dimensions	W x H x D: 17.2"x 1.7"x 28.2" (437 x 43 x 716mm) Package: 23.7" x 8" x 36.7"
Rail	Extendable lengths: 25.6" to 33.05"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			PCI I/O	Drive	Cooling Fan	Power	+5V _{SB}	+12V	Gross Weight
	X11	X10	X9							
SC118G-1400B*		●	●	4x FH 1x LP	6x 2.5" SAS/SATA	8x 40x56mm counter-rotating	1400W Gold Level (92%+)	6A	100/116	38 lbs
SC118G-1K43B*		●	●	4x FH 1x LP	6x 2.5" SAS/SATA	8x 40x56mm counter-rotating	1400W Platinum Level (94%+)	6A	100/116	38 lbs

Optional Kit	Model Part #	Description
Rail	MCP-290-00056-0N	Quick-release outer rail for square hole short-depth rack (19"~26.4")

* For OEM only - minimum quantity required.

For system configuration, please contact Supermicro representative/tech support for more information.

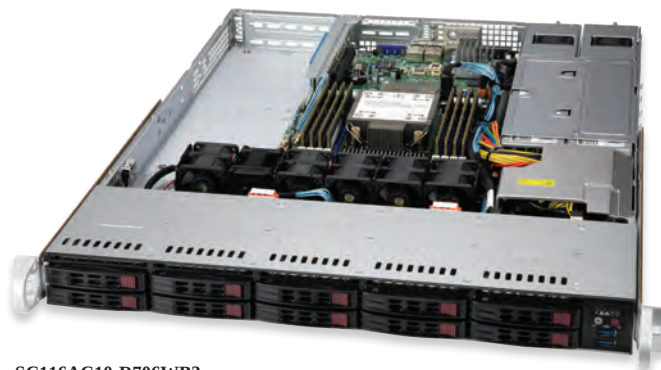
SC116AC(2/10)/TQ

1U High Capacity Storage Chassis

SAS3 (12Gb/s) / NVMe Support



SC116AC10-R860CB-N10



SC116AC10-R706WB3



SC116AC10-R860CB-N10 (Rear View)



SC116AC10-R706WB3 (Rear View)



■ Black

Features

- ✓ SC116AC2/10: SAS3 12Gb/s + 2 ports SAS2/SATA3/NVMe* HDD backplane
- ✓ SC116AC: SAS3 12Gb/s HDD backplane with Mini SAS HD connector
- ✓ 800W/860W/700W/750W high-efficiency **Platinum Level** redundant power supplies with PMBus function
- ✓ 10x hot-swap 2.5" SAS/SATA/NVMe HDD bays
- ✓ An efficient 1U rackmount design optimized for best price/performance

Specifications

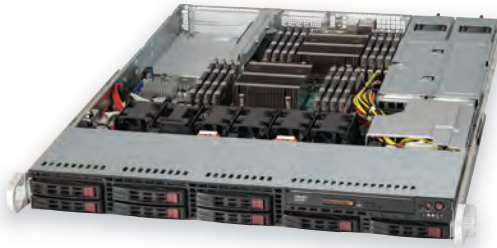
Form Factor	23.5" Depth 1U Rackmount Chassis - supports for maximum motherboard sizes of 12.3" x 13.05"
CPU Support	Supports Dual, single Intel® Processors / AMD Processors
Expansion	CB: 1x full-height PCI expansion slot WB: 2x full-height and 1x low-profile expansion slots
Drive Bays	SC116TQ: 10x hot-swap 2.5" SAS2/SATA3 HDD bays SC116AC: 8x SAS3 12Gb/s + 2x SAS2/SATA3 6Gb/s 2.5" drive bays SC116AC2/10: 8x SAS3 12Gb/s + 2x SAS2/SATA3/ NVMe * 2.5" drive bays
Power Supply	Redundant 860W/800W/700W(Platinum Level) high-efficiency power supplies with PMBus and T°C
Cooling System	4x 40x56mm counter-rotating PWM fans (optional 2x fans for AOC cooling)
Front Panel LEDs	Power LED, HDD activity LED, 2 Network Activity LEDs and Unit Identification (UID) LED
Front Panel Buttons	Power On/Off button, UID button
Dimensions	W x H x D: 17.2"x 1.7"x 23.5" (437 x 43 x 597 mm) Package: 25" x 6" x 33"
Rail	Extendable lengths: 25.6" to 33.05"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration	

Model	MB				PCI I/O	Drive	Cooling Fan	Front USB	Power	+5VSB	+12V	Gross Weight
	X12	X11	X10	X9								
SC116TQ-R700CB			●	●	1x FH/FL	10x 2.5" SAS2/SATA3	4x 40x56mm counter-rotating	2x USB 2.0	Redundant 700W/750W Gold Level w/ PMBus	3	700W: 58 Amp 750W: 62 Amp	40 lbs
SC116TQ-R700WB			●	●	2x FH 1x LP	10x 2.5" SAS2/SATA3	4x 40x56mm counter-rotating	2x USB 2.0	Redundant 700W/750W Gold Level w/ PMBus	3	700W: 58 Amp 750W: 62 Amp	40 lbs
SC116AC-R700WB			●	●	2x FH 1x LP	8x 2.5" SAS3 2x 2.5" SAS2/SATA3	4x 40x56mm counter-rotating	2x USB 2.0	Redundant 700W/750W Gold Level w/ PMBus	3	700W: 58 Amp 750W: 62 Amp	40 lbs
SC116AC2-R706WB			●	●	2x FH 1x LP	8x 2.5" SAS3 2x 2.5" NVMe * SAS2/SATA3	4x 40x56mm counter-rotating	2x USB 3.0	Redundant 700W/750W Platinum Level w/ PMBus	3	700W: 58 Amp 750W: 62 Amp	40 lbs
SC116AC2-R706WB2		●	●	●	2x FH 1x LP	8x 2.5" SAS3 2x 2.5" NVMe * SAS2/SATA3	4x 40x56mm counter-rotating	2x USB 3.0	Redundant 700W/750W Platinum Level w/ PMBus	3	700W: 58 Amp 750W: 62 Amp	40 lbs
SC116TQ-R706WB			●	●	2x FH 1x LP	10x 2.5" SAS2/SATA3	4x 40x56mm counter-rotating	2x USB 3.0	Redundant 700W/750W Platinum Level w/ PMBus	3	700W: 58 Amp 750W: 62 Amp	40 lbs
New! SC116AC10-R706WB3	●	●			2x FH 1x LP	10x 2.5" SAS3 /SATA3/ NVMe	4x 40x56mm counter-rotating	2x USB 3.0	Redundant 700W/750W Platinum Level w/ PMBus	3	62A	40 lbs
New! SC116AC10-R860CB-N10	●	●			1x FH/FL	10x 2.5" SAS3 /SATA3/ NVMe	4x 40x56mm counter-rotating	2x USB 3.0	Redundant 800W/860W Platinum Level w/ PMBus	4	71.6A	36 lbs

Optional Kit	Model Part #	Description
Rail Kit	MCP-290-00052-0N-Bulk	Quick-release outer rail for square hole short-depth rack (bulk pack, 10 sets)
	MCP-290-00056-0N	Quick-release outer rail for square hole short-depth rack (19"~26.4")

* Fully hot-swap **NVMe** feature is supported by SuperServer or OEM configuration only.

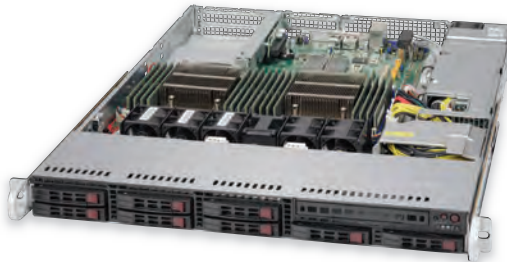
2.5" HDD



SC113TQ-R700WB



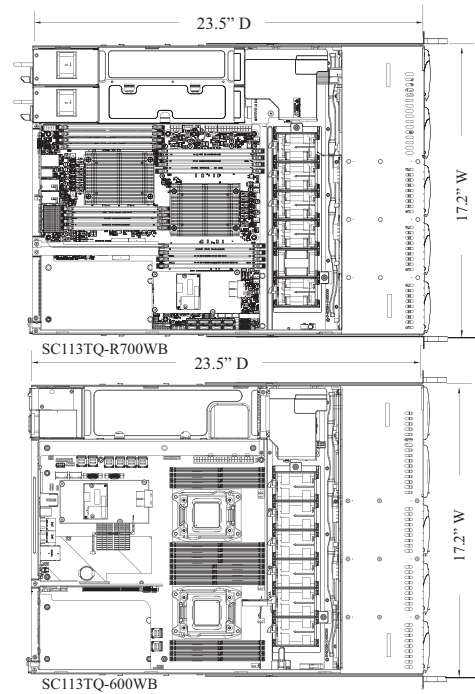
WIO Rear View



SC113TQ-600WB



WIO Rear View



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Features

- ✓ High-performance 8 hot-swap HDDs in 1U; 80Plus® **Platinum & Gold Level** high-efficiency power supply; UIO/WIO solution support (2x FH, 1x LP)

Specifications

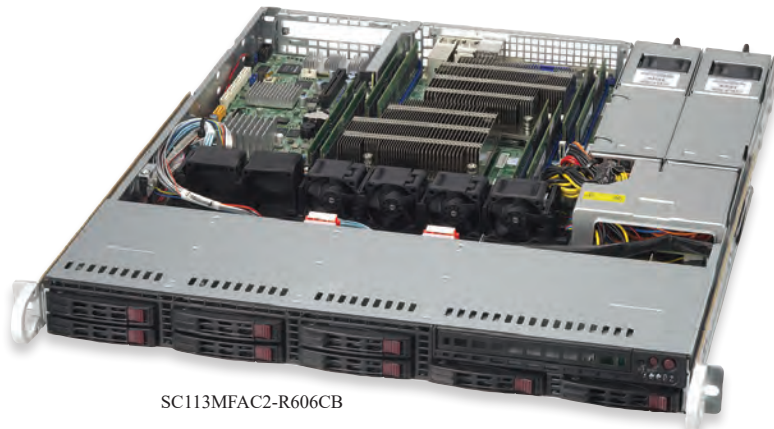
Form Factor	1U rackmount chassis, support for motherboard size: E-ATX 12.3" x 13" and 13.68" x 13" (for single power SKU only)
CPU support	Dual and Single Intel® processors and AMD processors
Expansion	WB: 2x FH, 1x LP expansion slot CB: 1x FF expansion slot
Drive Bays	1x slim DVD-ROM (option for some models) 8x hot-swap 2.5" SAS/SATA HDD bays
Cooling System	4x 4cm counter-rotating PWM fans, 2x optional fans for PCI card cooling
Front Panel LEDs	Power LED, HDD activity LED, 2 network activity LEDs and Unit Identification (UID) LED
Front Panel Buttons	Power On/Off button, system reset button, UID button
Dimensions	17.2"W x 1.7"H x 23.5"D Package: 25"W x 6"H x 33"D
Rail	Extendable lengths 25.6" to 33.05"
Temperature	Operating: 5° ~ 35° C (41° to 95° F) Non operating: -40° ~ 70° C (-40° to 158° F)
Humidity	Operating: 8-90% non-condensing Non-operating: 5-95% non-condensing

- Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			PCI I/O	Drive	Cooling Fan	Power	+5V _{SB}	+12V	Gross Weight
	X11	X10	X9							
SC113TQ-563CB		●	●	1x FF	8x SAS/SATA 2.5" w/SES2	4x 12000rpm	560W Platinum Level	3	46/49	36 lbs
SC113TQ-R500CB		●	●	1x FF	8x SAS/SATA 2.5" w/SES2	4x 12000rpm	Redundant 500W Platinum Level	3	42	36 lbs
SC113TQ-600CB		●	●	1x FF	8x SAS/SATA 2.5" w/SES2	4x 12000rpm	600W Platinum Level	3	49	36 lbs
SC113TQ-600WB		●	●	2x FH, 1x LP	8x SAS/SATA 2.5" w/SES2	4x 12000rpm	600W Platinum Level	3	49	36 lbs
SC113TQ-R500WB		●	●	2x FH, 1x LP	8x SAS/SATA 2.5" w/SES2	4x 12000rpm	Redundant 500W Platinum Level	3	58	37 lbs
SC113AC2-605WB	●	●		2x FH, 1x LP	8x SAS/SATA 2.5" w/SES2	4x 12000rpm	Redundant 600W Platinum Level	3	49A	35 lbs
New! SC113AC2-R706WB2	●	●		2x FH, 1x LP	8x SAS/SATA 2.5" w/SES2	4x 12000rpm	Redundant 700W/750W Platinum Level	3	62A	36 lbs

SC113MFAC2/MTQ 1U High-Performance, Short Depth Server Chassis

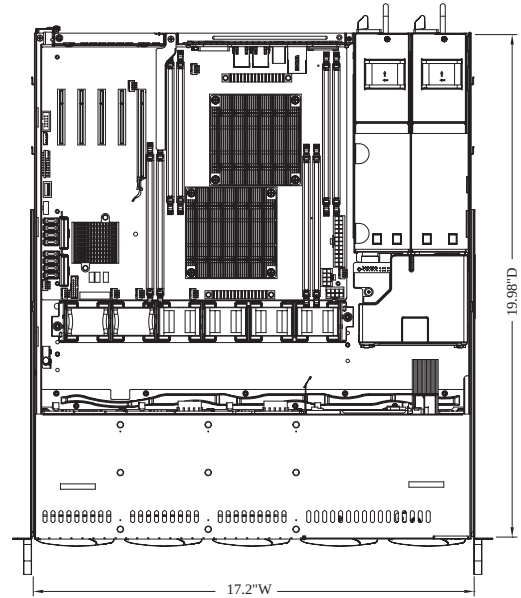
SAS3 (12Gb/s)/NVMe* Support



SC113MFAC2-R606CB



Rear View



SC113MTQ-R400CB



■ Black

Features

- ✓ SC113MFAC2: SAS3 12Gb/s + NVMe*/SAS3/SATA3 HDD backplane
- ✓ Compact, flexible, and versatile chassis (less than 20" depth)
- ✓ Platinum Level/Redundant Gold Level high-efficiency power supplies
- ✓ 8x hot-swap HDDs in short-depth 1U space

Specifications

Form Factor	1U rackmount chassis, support Micro-ATX 9.6"x9.6" and ATX 12"x10" motherboard
CPU Support	Dual Intel® Processors and AMD Processors
Expansion	1x full-height expansion slot 1x slim DVD-ROM (optional);
Drive Bays	SC113MTQ: 8x hot-swap 2.5" SAS2/SATA3 HDD bays SC113MFAC2: 8x hot-swap 2.5" SAS3/SATA3 (2 NVMe* ports) HDD bays
Cooling System	4x 40x28mm PWM fans (optional fans for PCI card cooling)
Backplane	1U SAS/SATA Backplane with SES2 support
Front Panel LEDs	Power LED, HDD activity LED, 2 Network Activity LEDs and Unit Identification (UID) LED
Front Panel Buttons	Power on/off button, system reset button, UID button
Dimensions	17.2"W x 1.7"H x 19.98"D Package: 24"W x 8.3"H x 30"D
Rail	Extendable lengths 25.6" to 33.05"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

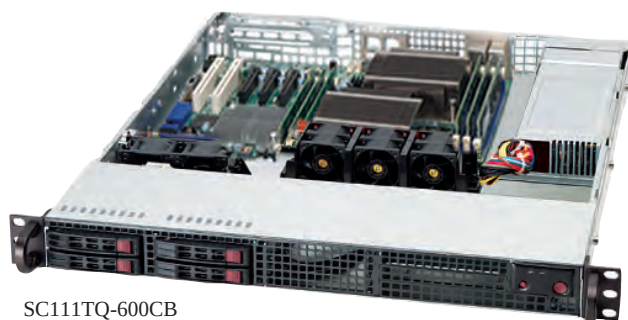
● Optimized ○ Compatible ● Optimized low-power configuration ○ Compatible low-power configuration

Model	MB			PCI I/O	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9							
SC113MTQ-563CB			○	1x FH	8x SAS2/SATA3 2.5"	4x 13000rpm	560W Gold Level	3	46/49	29.5 lbs
SC113MTQ-600CB			○	1x FH	8x SAS2/SATA3 2.5"	4x 13000rpm	600W Platinum Level	3	49	29.5 lbs
New! SC113MFAC2-R608CB	●	○	○	1x FH	8x SAS3/SATA3 2.5" (2 NVMe* ports)	1x 10000rpm or 2x 20000rpm	Redundant 600W Platinum Level	3	49	29.5 lbs
New! SC113MFAC2-R606CB		○	○	1x FH	8x SAS3/SATA3 2.5" (2 NVMe* ports)	1x 10000rpm or 2x 20000rpm	Redundant 600W Platinum Level	3	49	29.5 lbs
New! SC113MFAC2-605CB	●	○	○	1x FH	8x SAS3/SATA3 2.5" (2 NVMe* ports)	1x 10000rpm or 2x 20000rpm	600W Platinum Level	3	49	29.5 lbs
New! SC113MFAC2-341CB	●	○	○	1x FH	8x SAS3/SATA3 2.5" (2 NVMe* ports)	1x 10000rpm or 2x 20000rpm	340W Platinum Level	3	49	29.5 lbs

Optional Kit	Model Part #	Description
Rail	MCP-290-00052-0N-Bulk MCP-290-00056-0N	Quick-release outer rail for square hole rack (bulk pack, 10 sets) Quick-release outer rail for square hole short-depth rack (19" ~ 26.4")
Battery Pickup Power	PWS-206-1R	200W BBP* optional kit

* Fully hot-swap NVMe feature is supported by SuperServer or OEM configuration only

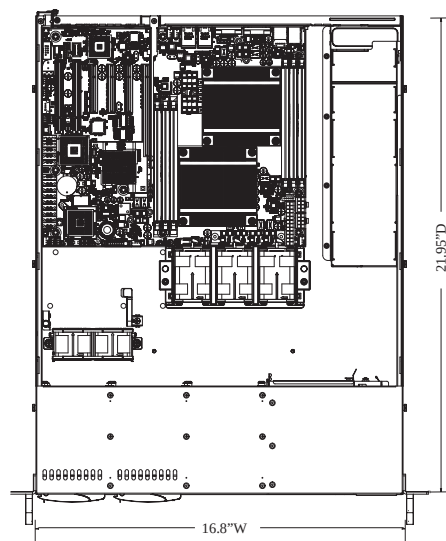
2.5" HDD



SC111TQ-600CB



Rear View



■ Black

Features

- ✓ 600W **Platinum Level** and 560W **Gold Level** high-efficiency, multiple outputs power supply
- ✓ 4 hot-swap HDD in 1U, cost-effective, 21.95" depth chassis
- ✓ Flexible chassis to fit both ATX & E-ATX motherboards
- ✓ Adjustable fan locations to optimize thermal solutions for different sized boards

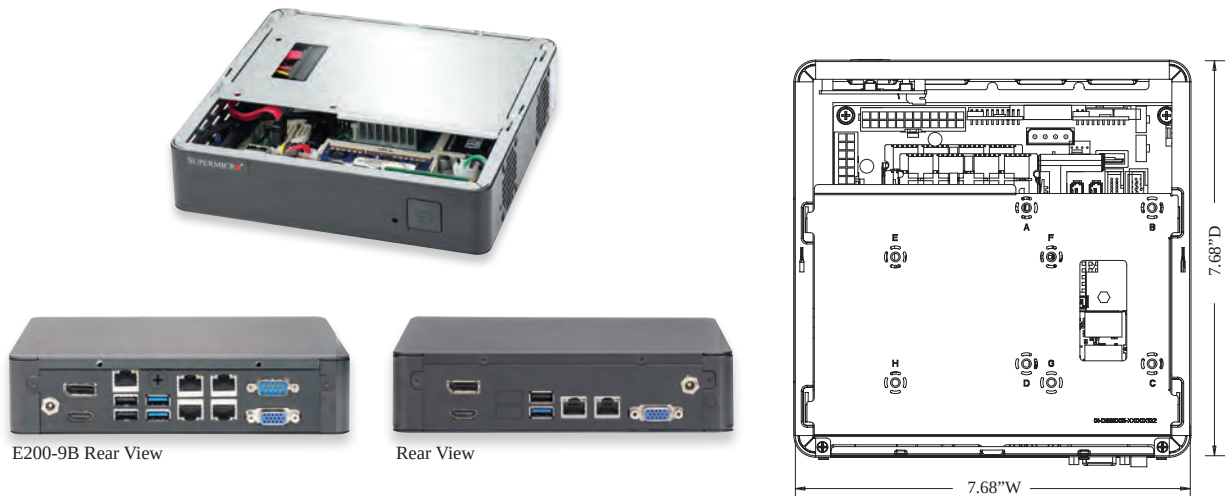
Specifications

Form Factor	1U rackmount chassis, supports MB size: 12"x13" E-ATX, 12"x10" ATX, and 9.6"x9.6" Micro-ATX		
CPU Support	Dual and Single Intel® processors and AMD processors		
Expansion	1x FF expansion slot		
Drive Bays	1x slim DVD-ROM (Optional); 2x front side USB (Optional);		
Cooling System	SC111TQ: 3x 40x56mm counter-rotating fans 2x 40x28mm fans (optional fans for PCI card cooling)		
Front Panel LEDs	Power LED, HDD activity LED, 2 network activity LEDs and Unit Identification (UID) LED		
Front Panel Buttons	Power On/Off button, system reset button, UID button		
Dimensions	16.8"W x 1.7"H x 21.95"D (426mmW x 43mmH x 558mmD)		Packing: 24"W x 8.3"H x 30"D
Rail	Extendable lengths: 13.1" to 33.1"		
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non operating: -40° ~ 70°C (-40° to 158°F)		
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing		

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			PCI I/O	Drive	Cooling Fan	Power	+5V _{SB}	+12V	Gross Weight
	X11	X10	X9							
SC111TQ-563CB		●	●	1x FF	4x SAS/SATA 2.5"	3x 40x56mm 4-pin PWM fans and 2x 40x28mm 4-pin PWM fans for add-on card (optional)	560W Gold Level	4	46/49	30 lbs
SC111TQ-600CB		●	●	1x FF	4x SAS/SATA 2.5"	3x 40x56mm 4-pin PWM fans and 2x 40x28mm 4-pin PWM fans for add-on card (optional)	600W Platinum Level	4	49	30 lbs

Optional Kit	Model Part #	Description
Fan	FAN-0100L4/FAN-0106L4	40 x 28mm 8500rpm fan for add-on card cooling
Fan Holder	MCP-320-11101-0N	Fan holder for 2x 4028 fans



E200-9B Rear View

Rear View

Features

■ Black

- ✓ Slim & space-saving 1U Mini-ITX chassis design
- ✓ 1x 2.5" internal HDD support (no exceed 9.5cm thickness)
- ✓ 1x 4cm cooling fan
- ✓ Ultra compact size & weight: 7.68"D x 1.79"H x 7.68"W; 1.25 kg (Chassis Only)
- ✓ VESA/Wall-mount ready

Specifications

Form Factor	Mini-ITX chassis for motherboard support size Mini-ITX 6.75" x 6.75"
CPU Support	Single Intel® Processors and AMD Processors
Drive Bays	1x 2.5" internal fixed drive bay
Cooling System	1x 4cm 4pin high performance fan, optional for second fan
Front Panel LEDs	HDD activity LED, Power Status LED, Power off LED
Front Panel Buttons	Power On/Off button, Reset Button
Dimensions	W x H x D: 7.68" (195 mm) x 1.79" (44.45mm) x 7.68" (195 mm); Package: 15" (381mm) x 10.87" (276mm) x 5.59" (142mm)
Temperature	Operating: 0°C - 40°C (32°F - 104°F) Non-operating: -20°C - 60°C (-4°F - 140°F)
Humidity	Operating: 10% - 85% (non-condensing) Non-operating: 10% - 95% (non-condensing)

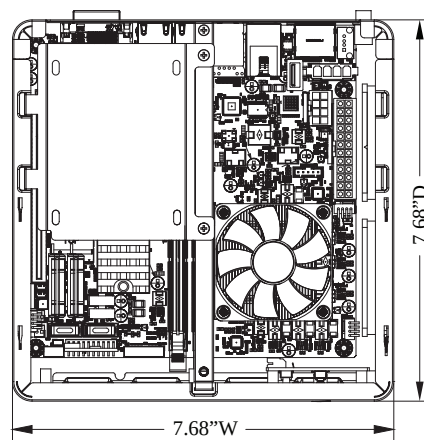
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			Drive	Cooling Fan	Power	Gross Weight
	X11	X10	X9				
SC101S	●	●	●	1x 2.5" internal fixed drive bay	1x 4cm 4pin high performance fan	Optional 60W/84W/120W DC-in power adapter or DC/DC power converter board	7.5 lbs

Optional Kit	Model Part #	Description
Cable	CBL-0296L	9" 4 pin fan extension cord, for fan guide pin at 1&3 or 1&4
Power Adapter	MCP-250-10117-0N	60W DC power adapter with US power cord 18AWG 6ft
Power Adapter	MCP-250-10122-0N	84W DC power adapter with US power cord 18AWG 6ft
Power Adapter	MCP-250-10127-0N	120W DC power adapter with US power cord 18AWG 6ft
I/O Shield	MCP-260-10102-0B	CSE-101S I/O shield for A1SAi and A1SRi
I/O Shield	MCP-260-10104-0B	CSE-101S I/O shield for H9SKV (operating temperature 35°C)
I/O Shield	MCP-260-10105-0B	CSE-101S I/O shield for X11SBA w/ COM port
Fan Kit	MCP-320-10102-0N	Additional side fan kit for CSE-101S
Dual System Tray	MCP-290-10108-0B	Dual system tray for Mini-ITX system



SC101iF Rear View



Features

■ Black

- ✓ Slim & Space-saving Chassis Design
- ✓ Optional 60W/84W DC-in Power adapter
- ✓ 1x 2.5" internal HDD support
- ✓ 2x 6cm Cooling Fans
- ✓ Power switch w/ 1x LED
- ✓ VESA/Wall-mount ready

Specifications

Form Factor	Mini-ITX chassis for motherboard support size Mini-ITX 6.75" x 6.75"
CPU Support	Intel® Atom™ processors Single Intel® and AMD processors
Drive Bays	1x 2.5" fixed drive bay Enterprise SATA HDD only recommended
power Supply	Optional 60W/84W/120W, DC-DC Power Adapter
Cooling System	2x 6cm 4-pin high performance cooling fans
Front Panel LEDs	Power Status LED, HDD Activity LED, Power Status LED, Power OFF LED
Front Panel Buttons	Power On/Off button; System Reset Button
Dimensions	W x H x D: 2.68" (68mm) x 7.68" (195 mm) x 7.68" (195 mm) Package: 15" (381mm) x 10.87" (276mm) x 5.59" (142mm)
Temperature	Operating: 0°C - 40°C (32°F - 104°F) Non-operating: -20°C - 60°C (-4°F - 140°F)
Humidity	Operating: 10% - 85% (non-condensing) Non-operating: 10% - 95% (non-condensing)

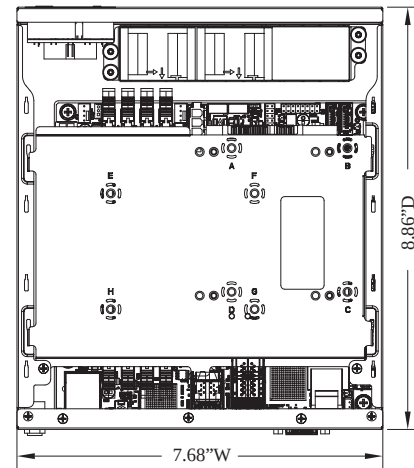
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			Drive	Cooling Fan	Power	+12V	Gross Weight
	X11	X10	X9					
New! SC101iF	●	● ●	● ●	1x 2.5" internal fixed drive bay	2x 6cm 4-pin high performance cooling fans	Optional 60W/84W/120W, DC-DC Power Adapter	A	7.5 lbs

Optional Kit	Model Part #	Description
Power Adapter	MCP-250-10117-0N	60W DC power adapter with US power cord 18AWG 6ft
Power Adapter	MCP-250-10122-0N	84W DC power adapter with US power cord 18AWG 6ft
Power Adapter	MCP-250-10127-0N	120W DC power adapter with US power cord 18AWG 6ft
Dual System Tray	MCP-290-10108-0B	Dual system tray for Mini-ITX system
Heatsink	SNK-P0049A4	Active CPU cooler for 4th Generation Intel® Core™ Processors



Rear View



Features

■ Black

- ✓ Compact Desktop BOX Server PC
- ✓ Embedded Appliance Chassis
- ✓ Optimized for Server Mini-ITX Motherboard
- ✓ Support 1x 2.5 fixed drive
- ✓ Power Switch, Reset Button and LED Indicators

Specifications

Form Factor	Mini-ITX chassis for motherboard support size Mini-ITX 6.75" x 6.75"
CPU Support	Single Intel® and AMD processors
Drive Bays	1x 2.5" fixed drive bay, design for 7mm thickness SSD
Power Supply	Optional 60W/84W/120W, DC-DC Power Adapter or DC/DC Power converter board
Cooling System	1x 4cm high performance PWM fan Optional 2x 4cm high performance PWM fans
Front Panel LEDs	Unit Identification (UID) LED
Front Panel Buttons	Power On/Off button; System Reset Button
Dimensions	W x H x D: 7.6" (193mm) x 1.7" (43mm) x 8.9" (226mm) Package: 15" (381mm) x 10.87" (276mm) x 5.59" (142mm)
Temperature	Operating: 0°C - 40°C (32°F - 104°F) Non-operating: -20°C - 60°C (-4°F - 140°F)
Humidity	Operating: 10% - 85% (non-condensing) Non-operating: 10% - 95% (non-condensing)

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

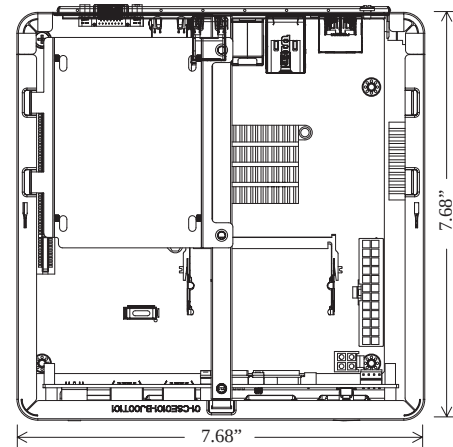
New!

Model	MB			Drive	Cooling Fan	Power	+5Vsb	+12V	Gross Weight
	X11	X10	X9						
SC101F		●	●	1x 2.5" internal fixed drive bay	1x 4cm 4pin high performance fan	Optional 60W/84W/120W, DC-DC Power Adapter or DC/DC Power converter board	N/A	A	7.5 lbs

Optional Kit	Model Part #	Description
Power Adapter	MCP-250-10117-0N	60W DC power adapter with US power cord 18AWG 6ft
Power Adapter	MCP-250-10122-0N	84W DC power adapter with US power cord 18AWG 6ft
Power Adapter	MCP-250-10127-0N	120W DC power adapter with US power cord 18AWG 6ft
IO shield	MCP-260-10107-0B	CSE-101F, e300 Rear I/O for A1SAi And A1SRi
Chassis parts	MCP-290-10110-0B	CSE-101F Rackmount kit
Cable	CBL-CUSB-0975	RJ45 SERIAL Cabel for Console
Fan	FAN-0065L4	4028mm 13K RPM 4-pin PWM Fan
Dual System Tray	MCP-290-10108-0B	Dual system tray for Mini-ITX system



Rear View



Features

■ Black

- ✓ Slim & space-saving Mini-ITX chassis design
- ✓ Optional 60W/80W/120W DC-in power adapter or DC-ATX power converter board
- ✓ 1x 2.5" internal HDD support
- ✓ 1x 6cm cooling fan
- ✓ Front I/O: 2x USB 2.0 & 2x audio ports
- ✓ Ultra compact size & weight: 7.68"D x 2.68"H x 7.68"W; 1.25 kg (Chassis Only)
- ✓ VESA/Wall-mount ready

Specifications

Form Factor	Mini-ITX chassis for motherboard support size Mini-ITX 6.75" x 6.75"
CPU Support	Single Intel® Atom™ Processors; 4th Generation Intel® Core™ Processors, up to 35W
Drive Bays	1x 2.5" internal fixed drive bay
Cooling System	1x 6cm 4pin high performance fan
Front Panel LEDs	HDD activity LED, Power Status LED, Power off LED
Front Panel Buttons	Power On/Off button
Dimensions	W x H x D: 7.68" (195 mm) x 2.68" (68mm) x 7.68" (195 mm); Package: 15" (381mm) x 10.87" (276mm) x 5.59" (142mm)
Temperature	Operating: 0°C - 40°C (32°F - 104°F) Non-operating: -20°C - 60°C (-4°F - 140°F)
Humidity	Operating: 10% - 85% (non-condensing) Non-operating: 10% - 95% (non-condensing)

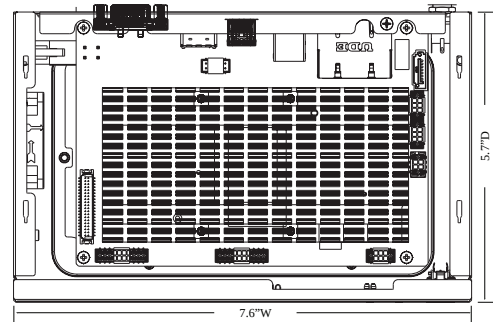
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			Drive	Cooling Fan	Power	Gross Weight
	X11	X10	X9				
SC101i	●	●	●	1x 2.5" internal fixed drive bay	1x 6cm 4pin high performance fan	Optional 60W/84W/120W DC-in power adapter or DC/DC power converter board	7.5 lbs

Optional Kit	Model Part #	Description
Cable	CBL-0296L	9" 4 pin fan extension cord, for fan guide pin at 1&3 or 1&4
Cable	CBL-0080L	SATA power adapter cable 6"
Power Adapter	MCP-250-10117-0N	60W DC power adapter with US power cord 18AWG 6ft
Power Adapter	MCP-250-10122-0N	84W DC power adapter with US power cord 18AWG 6ft
Power Adapter	MCP-250-10127-0N	120W DC power adapter with US power cord 18AWG 6ft
Power Board	MCP-250-10101-0N	60W DC-ATX PWR Board
Power Board	MCP-250-10103-0N	80W DC-ATX PWR Board
Heatsink	SNK-P0049A4	Active CPU cooler for 4th Generation Intel® Core™ Processors
Dual System Tray	MCP-290-10108-0B	Dual system tray for Mini-ITX system



Rear View



■ Black

Features

- ✓ Slim & Space-saving 3.5" SBC Chassis Design
- ✓ Embedded Appliance Chassis
- ✓ 1x 2.5" internal 7mm SSD support
- ✓ Support 3.5" SBC MBD form factor
- ✓ 1x 4cm Cooling Fan
- ✓ Optional VESA/Wall-mount ready

Specifications

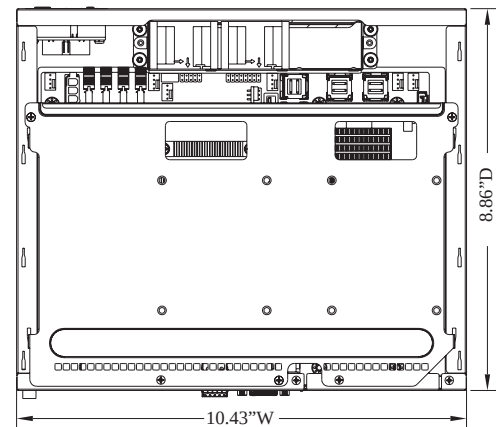
Form Factor	Slim & Space-saving 3.5" SBC Chassis supports X11SAN, A2SAN-H, A2SAN-L, X11SSN-L motherboards
CPU Support	Single Intel® Processors and AMD Processors
Drive Bays	Optional 1x 2.5" 7mm internal SSD drive
Power Supply	Optional 40W/60W lockable power adapter
Cooling System	1x 4cm high performance PWM fans
Front Panel LEDs	Power Status LED, HDD Activity LED
Front Panel Buttons	Power On/Off button
Dimensions	W x H x D: 7.6" (193mm) x 1.7" (43mm) x 5.2" (132mm) Package: 15" (381mm) x 10.87" (276mm) x 5.59" (142mm)
Temperature	Operating: 0°C - 40°C (32°F - 104°F) Non-operating: -20°C - 60°C (-4°F - 140°F)
Humidity	Operating: 10% - 85% (non-condensing) Non-operating: 10% - 95% (non-condensing)

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			Drive	Cooling Fan	Power	+5Vsb	+12V	Gross Weight
	X11	X10	X9						
New! SCe102	●			optional 1x 2.5" 7mm internal SSD drive	1x 4cm 4pin high performance fan	Optional 40W/60W lockable power adapter	N/A	N/A	3 lbs
Optional Kit	Model Part #			Description					
Cable	CBL-CUSB-1045			SERIAL, 2x DB9M TO 2X10F/P2.00,INT TO EXT, FLAT, 12CM, 28AWG					
Cable	CBL-PWEX-0982			SATA POWER Cable, 25CM					
Cable	CBL-SAST-0881			SATA Cable, 25CM					
Chassis parts	MCP-160-10202-0B			CSE-E102 Front Panel Mylar with 4x Comport opening only					
Chassis parts	MCP-160-10203-0B			CSE-E102 Front Panel Mylar with 4x comport and Audio port					
Chassis parts	MCP-160-10204-0B			CSE-E102 Front Panel Mylar with Audio port only					
Power Adapter	MCP-250-10117-0N			AC to DC 60W lockable power adapter					
Power Adapter	MCP-250-10124-0N			AC to DC 40W lockable power adapter					
I/O Shield	MCP-260-10202-0B			CSE-E102 I/O shield for X11SSN					
I/O Shield	MCP-260-10201-0B			CSE-E102 I/O shield for A2SAN and X11SAN					
Chassis parts	MCP-290-10113-0B			Wall mount/VESA mount					



Rear View



Features

■ Black

- ✓ Compact Desktop 1U Server BOX PC
- ✓ Embedded 1U Network Appliance Chassis
- ✓ Optimized for Flex-ATX and Mini-ITX Motherboard
- ✓ Support Standard LP AOC
- ✓ Power Switch, Reset Button and LED Indicators
- ✓ 2x 2.5" internal HDD support

Specifications

Form Factor	Flex-ATX chassis for motherboard support size 9.0" x 7.25"
CPU Support	Single Intel® Processors and AMD Processors
Drive Bays	2x 2.5" internal fixed drive bay
Cooling System	Up to three optional 4-cm fans can be purchased depending on your cooling needs
Front Panel LEDs	Power Status LED, HDD Activity LED, UID LED, 2 Network Activity LEDs
Front Panel Buttons	Power On/Off button; System Reset Button
Dimensions	W x H x D: 10" (254 mm) x 1.7" (43mm) x 8.9" (226 mm); Package: 15" (381mm) x 10.87" (276mm) x 5.59" (142mm)
Temperature	Operating: 0°C - 40°C (32°F - 104°F) Non-operating: -20°C - 60°C (-4°F - 140°F)
Humidity	Operating: 10% - 85% (non-condensing) Non-operating: 10% - 95% (non-condensing)

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			Drive	Cooling Fan	Power	+5Vsb	+12V	Gross Weight
	X11	X10	X9						
New! SCe300	●	●	●	2x 2.5" internal fixed drive bay	Up to three optional 4-cm fans can be purchased depending on your cooling needs	Optional 60W/80W/120W DC-in power adapter or DC/DC power converter board		A	7.5 lbs

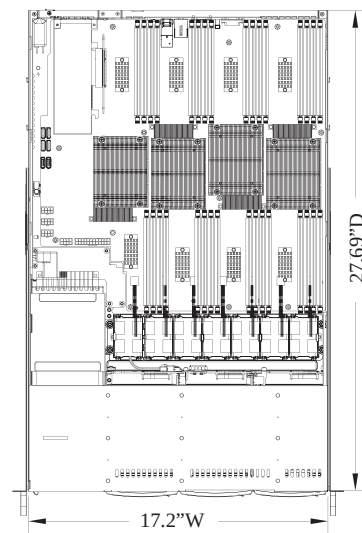
Optional Kit	Model Part #	Description
Power Adapter	MCP-250-10117-0N	60W DC power adapter with US power cord 18AWG 6ft
Power Adapter	MCP-250-10122-0N	84W DC power adapter with US power cord 18AWG 6ft
Power Adapter	MCP-250-10127-0N	120W DC power adapter with US power cord 18AWG 6ft
Riser Card	RSC-RR1U-E8	RSC-RR1U-E8 (Rev 4.00)
Fan Kit	FAN-0065L4	4028mm 13KPRM 4-pin PWM fan
Chassis Parts	MCP-290-30002-0B	CSE-e300 rackmount kit
Rear I/O	MCP-260-10107-0B	Rear I/O for A1SAi and A1SRi
Cable	CBL-CUSB-0975	RJ45 serial cable for console



SC818A-1K43LPB



SC818A-1K43LPB (Rear view)



■ Black

Features

1400W **Platinum/Gold Level** power supply with high-efficiency power, 3 hot-swap drive support, high performance PWM fans in 1U space

Specifications

Form Factor	1U chassis optimized for Quad-Processor motherboard, max. size: 16.48"W x 14.3"H; 16.4"W x 16.79"H for SC818A-1400LPB/1K43LPB
CPU support	Quad Intel® processors and AMD processors
Expansion	SC818TQ/A-1400LPB/1K43LPB: 1x low-profile expansion slot SC818TQ-1400B: 1x full-height expansion slot
Peripheral Drives	1x optional slim DVD-ROM drive
Drive Bays	3x 3.5" hot-swap SAS/SATA drive bays
Power Supply	SC818TQ/A-1K43/1400LPB: 1400W Platinum/Gold Level power supply with PMBus
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & System Information LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	W x H x D: 17.2"(437mm) x 1.7"(43mm) x 27.69" (703mm) Package: 37.9" x 26.2" x 9"
Rail	Extendable lengths 25.6" to 33.05"
Temperature	Operating: 5° ~ 35° C (41° to 95° F) Non operating: -40° ~ 70° C (-40° to 158° F)
Humidity	Operating: 8 - 90% non-condensing Non-operating: 5 - 95% non-condensing

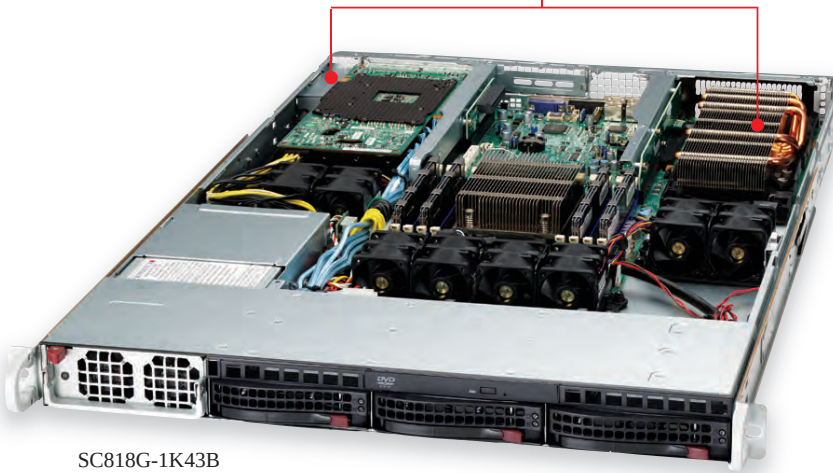
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			PCI I/O	Drives	Cooling System	Power Supply	+5V _{SB}	+12V	Gross Weight
	X11	X10	X9							
SC818A-1K43LPB*		●	●	1 LP	3x SAS/SATA	7x 14000rpm fans	1400W Platinum Level high-efficiency	6	100/117	42 lbs
SC818A-1400LPB*		●	●	1 LP	3x SAS/SATA	7x 14000rpm fans	1400W Gold Level high-efficiency	6	100/117	42 lbs
SC818TQ-1400LPB				1 LP	3x SAS/SATA	6x 14000rpm fans	1400W Gold Level high-efficiency	6	100/117	38 lbs
SC818TQ-1400B*				1 FH	3x SAS/SATA	6x 14000rpm fans	1400W Gold Level high-efficiency	6	100/117	38 lbs

Optional Kit	Model Part #	Description
Front Bezel	CSE-PTFB-813(B)	Front cover bezel with key lock and filter (beige or black color)
Front Tray	CSE-PT40L-B0	Front USB and COM tray
Rail	MCP-290-00052-0N-Bulk	Quick-release outer rail for square hole rack (bulk pack, 10 sets)
Rail	MCP-290-00056-0N	Quick-release outer rail for square hole short-depth rack (19"~26.4")
Front HDD Kit	MCP-220-81506-0N	12G 2.5" Hot-swap DVD Size Drive Kit with Status LED Support
Front HDD Kit	MCP-220-81504-0N	12G 2.5" Hot-swap Floppy Size Drive Kit with Status LED Support

* For OEM only, minimum quantity required.

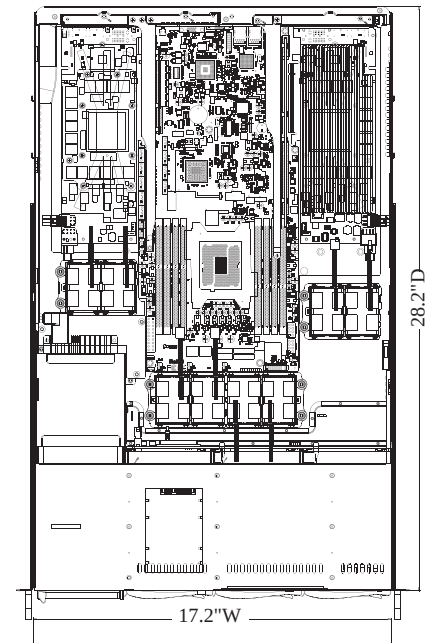
Optimized for **Two**
Double-Width GPUs



SC818G-1K43B



Rear View



Black

Features

- ✓ Space-effective chassis optimized for two double-width high-end graphics cards (GPU) or supports up to 5 expansion slots (4 FH/FL & 1 LP) in 1U space
- ✓ 1400W **Platinum/Gold Level** high-efficiency power supply
- ✓ Optimized thermal solution for GPU & CPU

Specifications

Form Factor	1U rackmount chassis optimized for 16.64" x 7.71" proprietary GPU motherboard		
CPU support	Single Intel® processor		
Expansion	4x full-height & full-length + 1 low-profile expansion slots, or 2x Double-width high end graphics cards (GPU) + 1 low-profile expansion slot		
Peripheral Drives	1x Slim DVD-ROM drive (optional); USB / COM port tray (optional)		
Drive Bays	3x 3.5" hot-swap drive trays		
Power Supply	1400W Platinum/Gold Level high-efficiency power supply with PMBus		
Cooling System	8x 4cm high performance counter-rotating PWM fan with optimal fan speed control		
Front Panel LEDs	Power Status LED, Hard Drive Activity LED, 2x Network Activity LEDs, System Overheat LED / Fan Fail / UID		
Front Panel Buttons	Power On/Off button and System Reset button		
Dimensions	W x H x D: 17.2" (437mm) x 1.7" (43mm) x 28.2" (716mm) Package: 23.7"W x 8"H x 36.7"D		
Rail	Extendable lengths 25.6" to 33.05"		
Temperature	Operating: 5° ~ 35° C (41° to 95° F) Non-operating: -40° ~ 70° C (-40° to 158° F)		
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing		

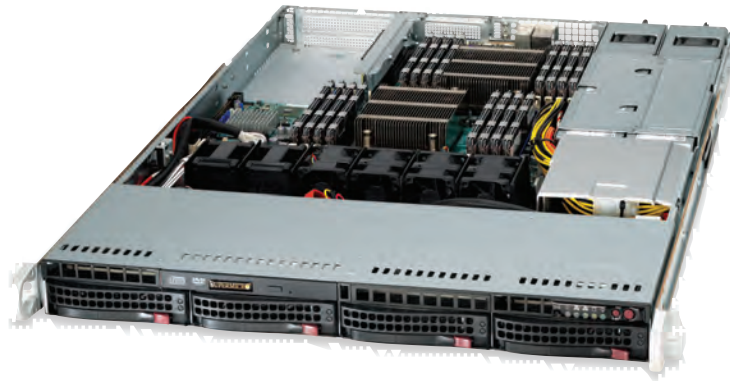
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			PCI I/O	Drives	Cooling System	Power Supply	+5VSB	+12V	Gross Weight
	X11	X10	X9							
SC818G-1400B*		●	●	4x FF & 1x LP	3x 3.5" hot-swap	8x 40x56mm counter-rotating fans	1400W Gold Level high-efficiency	6	100/116	38 lbs
SC818G-1K43B*		●	●	4x FF & 1x LP	3x 3.5" hot-swap	8x 40x56mm counter-rotating fans	1400W Platinum Level high-efficiency	6	100/116	38 lbs

Optional Kit	Model Part #	Description
Rail	MCP-290-00056-0N	Quick-release outer rail for square hole short-depth rack (19"~26.4")
Front HDD Kit	MCP-220-81506-0N	12G 2.5" Hot-swap DVD Size Drive Kit with Status LED Support
Front HDD Kit	MCP-220-81504-0N	12G 2.5" Hot-swap Floppy Size Drive Kit with Status LED Support

SC815TQ(C)-W

1U WIO/UIO Chassis with 2 FH & 1 LP Slots



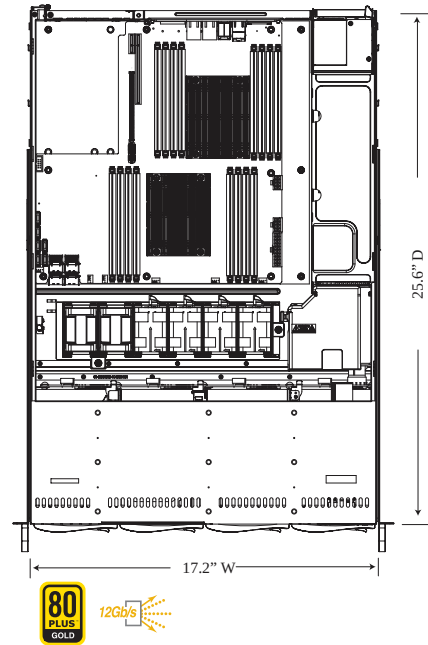
SC815TQ(C)-R706WB/R504WB



SC815TQ(C)-605WB (Rear View)



SC815TQ(C)-R706WB/R504WB (Rear View)



Features

- ✓ SAS 3.0 (12Gb/s) SSD/HDD support
- ✓ Redundant 750/600W/500W **Platinum Level**, 600W **Platinum Level** Digital high-efficiency power supplies
- ✓ 2 full-height PCI-E & 1 low-profile PCI-E supported
- ✓ PWM counter-rotating fans with air shroud

■ Black

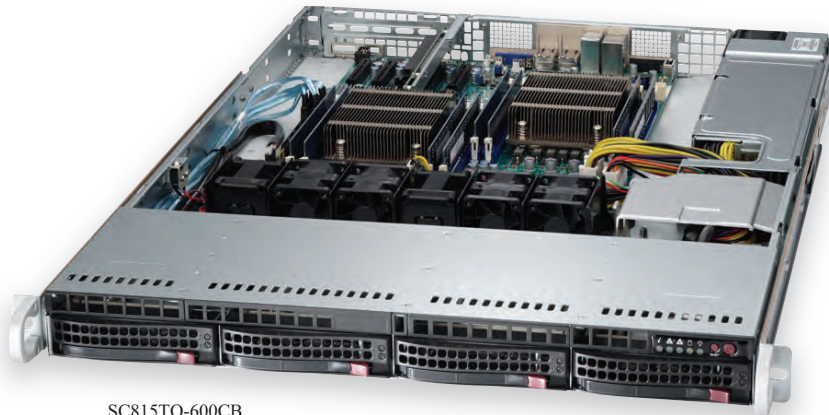
Specifications

Form Factor	1U chassis optimized for UIO& WIO motherboard
CPU Support	Dual and Single Intel® Processors and AMD Processors
Expansion	UIO: 1x full-height, 1x full-height UIO & 1x low-profile expansion slots; WIO: 2x full-height & 1x low-profile expansion slots 1x slim DVD-ROM drive (optional)
Drive Bays	4x 3.5" hot-swap drive bays
Cooling System	4x 4cm heavy duty counter-rotating fans (3x 4cm heavy duty counter-rotating fans for SC815TQ(C)-R500WB: 2x optional fans for PCI card cooling)
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & Unit Identification (UID) LED
Front Panel Buttons	Power On/Off button, System Reset button & UID button
Dimensions	W x H x D: 17.2" (437mm) x 1.7" (43mm) x 25.6" (650mm) Packing: 23.5" x 8.5" x 33.7"
Rail	Extendable lengths: 25.6" to 33.05"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing
● Optimized ○ Compatible ● Optimized low-power configuration ○ Compatible low-power configuration	

Model	MB				PCI I/O	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
	X11	X12	X10	X9							
SC815TQ-600WB				○	1 FF/1 FH UIO & 1 LP	4x SAS/SATA hot-swap	4x 12000rpm fans	600W Platinum Level w/ PMBus	3	42	40 lbs
SC815TQ-R706WB			●	○	1 FF/1 FH UIO & 1 LP	4x SAS/SATA hot-swap	4x 12000rpm fans	750W Redundant Platinum Level	3	42	40 lbs
SC815TQC-R706WB			●	○	1 FF/1 FH UIO & 1 LP	4x SAS3 hot-swap	4x 12000rpm fans	750W Redundant Platinum Level	3	42	40 lbs
SC815TQC-R504WB			●	○	1 FF/1 FH UIO & 1 LP	4x SAS3 hot-swap	3x 12000rpm fans	500W Redundant Platinum Level	3	42	40 lbs
SC815TQC-605WB		●		○	1 FF/1 FH UIO & 1 LP	4x SAS3 hot-swap	4x 12000rpm fans	600W Platinum Level	3	42	40 lbs
SC815TQC-R706WB2		●		○	1 FF/1 FH UIO & 1 LP	4x SAS3 hot-swap	4x 12000rpm fans	750W/700W Redundant Platinum Level	3	62	36 lbs
SC815TQC-R504WB2		●		○	1 FF/1 FH UIO & 1 LP	4x SAS3 hot-swap	4x 12000rpm fans	500W Redundant Platinum Level	4A	42	36 lbs
New! SC815TQC4-R504WB3	●	○			2 FH & 1 LP	4x 3.5" SAS3/SATA3/NVMe hot-swap	4x 12000rpm fans	500W Redundant Platinum Level	4	50A	36 lbs
New! SC815TQC4-605WB2	●	○			2 FH & 1 LP	4x 3.5" SAS3/SATA3/NVMe hot-swap	4x 12000rpm fans	600W Redundant Platinum Level	3A	49A	36 lbs

Optional Kit	Model Part #	Description
Adapter HDD Carrier	MCP-220-00118-0B	Black gen-5.5 tool-less hot-swap 3.5"-to-2.5" converter tray
Front HDD Kit	MCP-220-81506-0N	12G 2.5" Hot-swap DVD Size Drive Kit with Status LED Support
Front HDD Kit	MCP-220-81504-0N	12G 2.5" Hot-swap Floppy Size Drive Kit with Status LED Support

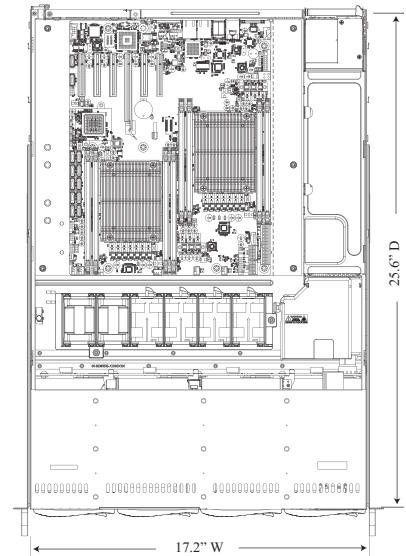
SC815T/TQ(C) 1U High-Performance Flexibility Chassis - Dual Processors



SC815TQ-600CB



SC815TQ-600CB (Rear View)



■ Silver (OEM) ■ Black

Features

- ✓ 600W Digital/Redundant 500W **Platinum Level** & 720W/560W/redundant 700W **Gold Level** high efficiency power supply
- ✓ 4 hot-swap drive support, high-performance PWM fans

Specifications

Form Factor	1U chassis support for motherboard size - 13.68" x 13" (single power SKUs only) and ATX 12" x 10", E-ATX 12.3" x 13"		
CPU support	Dual and single Intel® processors and AMD processors		
Expansion	1x full-height & full-length expansion slot		
Peripheral Drives	1x slim DVD-ROM drive (optional)		
Drive Bays	4 x 3.5" hot-swap SAS/SATA drive bays		
Power Supply	SC815TQ-600CB: 600W Platinum Level high-efficiency digital power supply SC815TQ-563B: 560W Gold Level high-efficiency power supply SC815TQC-R706CB/R504CB: 700W/500W (1+1) redundant Platinum Level high-efficiency power supply w/ I ² C SC815TQ-R654CB: 650W (1+1) redundant DC high-efficiency power supply		
Cooling System	4x 4cm heavy duty counter-rotating fans with optimal fan speed control (2x optional fans for PCI card cooling)		
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & system information LED		
Front Panel Buttons	Power On/Off button & System Reset button		
Dimensions	W x H x D: 17.2"(437mm) x 1.7"(43mm) x 25.6" (650mm) Package: 23.5" x 8.5" x 33.7"		
Rail	Extendable lengths: 25.6" to 33.05"		
Temperature	Operating: 5° ~ 35° C (41° to 95° F) Non-operating: -40° ~ 70° C (-40° to 158° F)		
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing		

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

	Model	X11	MB X10	X9	PCI I/O	Drives	DVD-ROM	Cooling System	Power Supply	+5V _{SB}	+12V	Gross Weight
	SC815TQ-R500CB		●	●	1x FF	4x SAS/SATA	opt.	3x 12000rpm fans	Redundant 500W Platinum Level	3	42	36 lbs
	SC815TQ-563CB		●	●	1x FF	4x SAS/SATA	opt.	4x 12000rpm fans	560W Gold Level	3	46/49	36 lbs
	SC815T-563CB		●	●	1x FF	4x SAS/SATA	opt.	4x 12000rpm fans	560W Gold Level	3	46/49	36 lbs
	SC815TQ-600CB		●	●	1x FF	4x SAS/SATA	opt.	4x 12000rpm fans	600W Platinum Level Digital w/ PMBus	3	49	36 lbs
New!	SC815TQ-R654CB		●	●	1x FF	4x SAS/SATA	opt.	4x 12000rpm fans	650W Redundant DC high-efficiency	3	49	36 lbs
New!	SC815TQC-605CB		●	●	1x FF	4x SAS3 /SATA	opt.	4x 12000rpm fans	600W Platinum Level	3	49	36 lbs
New!	SC815TQC-R504CB		●	●	1x FF	4x SAS3 /SATA	opt.	3x 12000rpm fans	500W Redundant Platinum Level	3	49	36 lbs
New!	SC815TQC-R706CB		●	●	1x FF	4x SAS3 /SATA	opt.	4x 12000rpm fans	750W Redundant Platinum Level	3	49	36 lbs

Optional Kit	Model Part #	Description
Adapter HDD Carrier	MCP-220-00118-0B	Black gen-5.5 tool-less hot-swap 3.5"-to-2.5" converter tray
Front HDD Kit	MCP-220-81506-0N	12G 2.5" Hot-swap DVD Size Drive Kit with Status LED Support
Front HDD Kit	MCP-220-81504-0N	12G 2.5" Hot-swap Floppy Size Drive Kit with Status LED Support

SC813TQ/T/LT

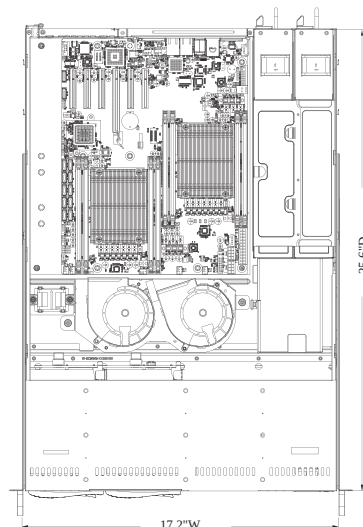
1U High-Performance/Cost-effective Chassis



SC813LT-R500CB



SC813LT-R500CB Rear View



SC813LT-R500CB



■ Beige (OEM)

■ Black

Features

4 or 2 hot-swap drive support, 350W **Gold Level**/440W **Platinum Level**/520W high-efficiency/600W **Gold Level** power supply

Specifications

Form Factor	1U chassis support for motherboard size - 12" x 13", E-ATX		
CPU support	Dual and Single Intel® processors and AMD processors		
Expansion	1 full-height expansion slot		
Peripheral Drives	1 slim DVD-ROM drive (optional)		
Drive Bays	TQ/T: 4x 3.5" hot-swap SAS/SATA drive bays; LT: 2x 3.5" hot-swap SAS/SATA drive bays		
Cooling System	2x 10cm blowers		
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & System Information LED		
Front Panel Buttons	Power On/Off button & System Reset button		
Dimensions	W x H x D: 17.2"(437mm) x 1.7"(43mm) x 25.6" (650mm) Package: 23.4" x 8.5" x 33.7"		
Rail	Extendable lengths 25.6" to 33.05"		
Temperature	Operating: 5° ~ 35° C (41° to 95° F) Non-operating: -40° ~ 70° C (-40° to 158° F)		
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing		

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

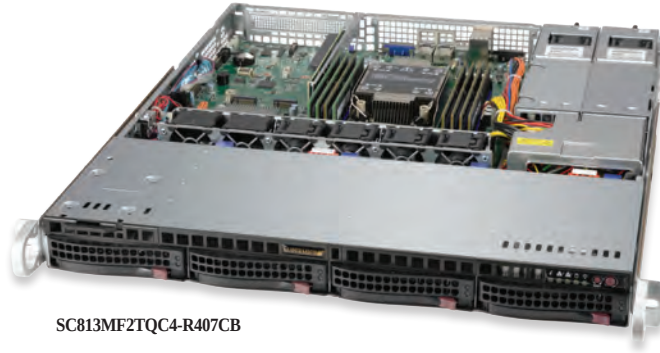
Model	MB			PCI I/O	Drives	DVD/FDD	Cooling	Power Supply	+5Vsb	+12V	Gross Weight
	X11	X10	X9								
SC813T-600CB		●	●	1 FF	4x SAS/SATA	slim/slim	FAN-0135LA	600W Gold Level high-efficiency w/ PMBus	3	49	36 lbs
SC813LT-R500CB		●	●	1 FF	2x SAS/SATA	slim/slim	FAN-0135LA	500W Redundant Platinum Level high-efficiency w/ PMBus	3	42	40 lbs

Optional Kit	Model Part #	Description
LCD Front Bezel	MCP-210-00007-02/01	LCD Front bezel with 6 function buttons & key lock for security (beige/black color)
Front Bezel	CSE-PTFB-813(B)	Front cover bezel with key lock and filter (beige or black color)
Front Tray	CSE-PT40(B)	Front USB and COM tray (occupies slim floppy drive location)
Rail	MCP-290-00052-0N-Bulk MCP-290-00056-0N MCP-290-00054-0N	Quick-release outer rail for square hole rack (bulk pack, 10 sets) Quick-release outer rail for square hole short-depth rack (19"~26.4") Quick-release rail set for square hole rack (single set, inner and outer)
Adapter HDD Carrier	MCP-220-00118-0B	Black gen-5.5 tool-less hot-swap 3.5"-to-2.5" converter tray
Front HDD Kit	MCP-220-81506-0N MCP-220-81504-0N	12G 2.5" Hot-swap DVD Size Drive Kit with Status LED Support 12G 2.5" Hot-swap Floppy Size Drive Kit with Status LED Support

SES2 on "TQ" model only

SC813MTQ(C)/MT/MFT

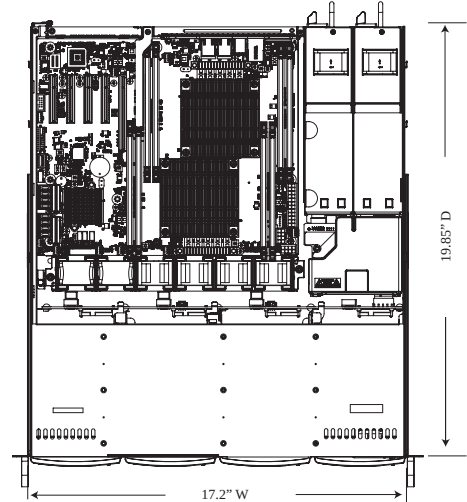
1U 19.85" Compact Chassis



SC813MF2TQC4-R407CB



SC813MF2TQC4-R407CB (Rear View)



■ Black

Features

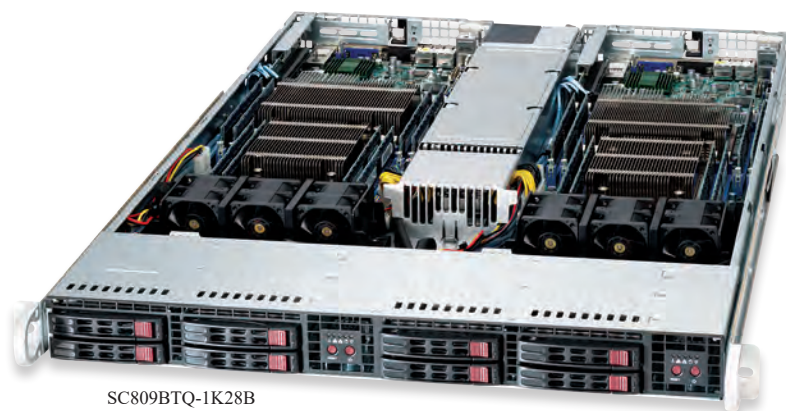
- ✓ SAS 3.0 (12Gb/s) SSD/HDD support
- ✓ 4 hot-swap drives support, high performance fans & compact size
- ✓ 80PLUS® **Platinum/Gold Level** high efficiency single & redundant power supplies

Specifications

Form Factor	1U chassis support for motherboard size - ATX 12" x 10" and Micro-ATX 9.6" x 9.6"
CPU Support	Dual and Single Intel® processors and AMD processors
Expansion	1x full-height & half-length expansion slot
Drive Bays	4x 3.5" hot-swap SAS/SATA drive bays
Peripheral Drives	1 slim DVD-ROM drive (optional); 2x front side USB ports & 1 COM port (optional)
Cooling System	4x 4cm high performance PWM fans (1x optional fan for PCI card cooling)
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & System Information LED
Front Panel Buttons	Power On/Off button, System Reset button
Dimensions	W x H x D: 17.2" (437mm) x 1.7" (43mm) x 19.85" (503mm) Package: 23.4" x 8.5" x 29.7" SC813MF2TQC-505CB & SC813MF2TQC-R608CB: 17.2" (437mm) x 1.7" (43mm) x 19.98" (508mm)
Rail	Extendable lengths 25.6" to 33.05"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration	

Model	MB				PCI I/O	Drives	Cooling Fan	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9	X8							
SC813MT-410CB		●	●		1x FH	4x 3.5" SAS/SATA	4x 12500rpm fans	410W DC (24-pin)	2	32	31 lbs
SC813MTQ-600CB		●	●		1x FH	4x 3.5" SAS/SATA	4x 13000rpm fans	600W Gold Level	2	49	31 lbs
SC813MFTQ-R606CB		●	●		1x FH	4x 3.5" SAS/SATA	4x 17500rpm fans	Redundant 600W Gold Level	2	33	33.5 lbs
SC813MFTQC-505CB	●	●	●		1x FH	4x 3.5" SAS/SATA	4x 17500rpm fans	500W Platinum Level w/ PMBus	2	33	33.5 lbs
SC813MFTQC-350CB	●	●	●		1x FH	4x 3.5" SAS/SATA	4x 17250rpm fans	350W Platinum Level w/ PMBus	2	33	33.5 lbs
SC813MFTQC-R407CB	●	●	●		1x FH	4x 3.5" SAS/SATA	4x 22500rpm fans	Redundant 400W Platinum Level	2	33	33.5 lbs
New! SC813MFTQC-350CB2	●	●	●		1x FH	4x 3.5" SAS/SATA	4x 12500rpm fans	350W Platinum Level (94%+)	3	29A	31 lbs
New! SC813MF2TQC-505CB	●	●	●		1x FH	4x 3.5" SAS/SATA	4x 12500rpm fans	500W Platinum Level (94%+)	3	41A	31 lbs
New! SC813MF2TQC-R804CB	●	●			1x FH	4x 3.5" SAS/SATA	4x 22500rpm fans	Redundant 400W Platinum Level	2	33	33.5 lbs
New! SC813MF2TQC4-R407CB	●	●			1x FH	4x 3.5" SAS/SATA	4x 40x28mm PWM fans	Redundant 400W Platinum Level	3	33A	33.5 lbs

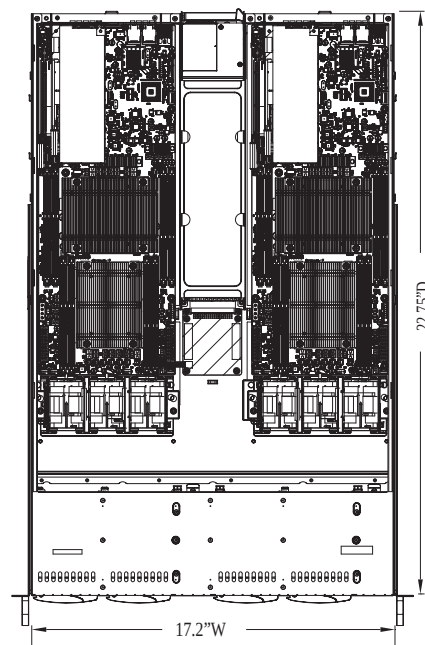
Optional Kit	Model Part #	Description
LCD Front Bezel	MCP-210-00007-0N	LCD Front bezel with 6 function buttons & key lock for security (beige/black color)
Front Bezel	CSE-PTFB-813(B)	Front bezel with 6 function buttons & key lock for security (beige/black color)
Rail	MCP-290-00052-0N-Bulk	Quick-release outer rail for square hole rack (bulk pack, 10 sets)
	MCP-290-00056-0N	Quick-release outer rail for square hole short-depth rack (19"~26.4")
Adapter HDD Carrier	MCP-220-00118-0B	Black Gen5 5 tool-less hot-swap 3.5"-to-2.5" converter tray
Battery Backup Power	PWS-206B-1R	200W BBP optional kit



SC809BTQ-1K28B



Rear View



Black

Features

- ✓ Twin Dual and Single Intel® and AMD Processors supported
- ✓ 1000W **Titanium**/1280W **Platinum**/1200W **Gold Level** high-efficiency cold-swap power supply
- ✓ Independent power control for each node

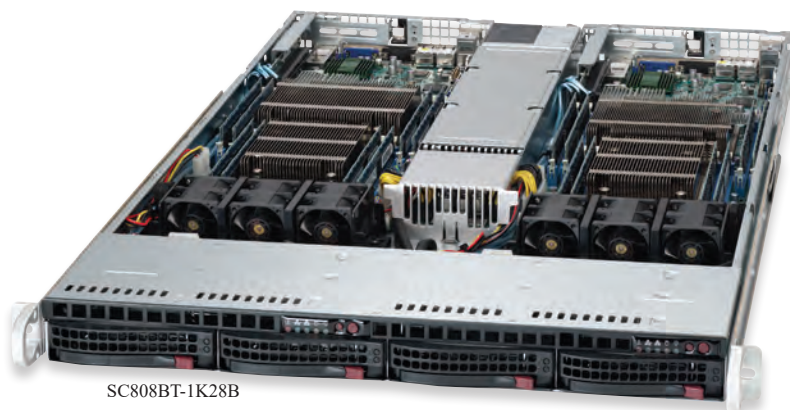
Specifications

Form Factor	1U chassis support for Twin MB, max. size 6.8" x 18"
CPU Support	Twin Dual and Single Intel® Processors and AMD Processors
Expansion	1x low-profile expansion slot (per node)
Drive Bays	4x 2.5" hot-swap SATA drive bays (per node)
Power Supply	1280W Platinum Level /1200W Gold Level high-efficiency power supply w/I ² C 1000W Titanium Level high-efficiency power supply w/I ² C
Cooling System	3x 4cm heavy duty counter-rotating fans with optimal fan speed control (per node)
Front Panel LEDs	Twin Power LED, HDD activity LED, 2 network activity LEDs and Unit Identification (UID) LED
Front Panel Buttons	Twin Power On/Off button, UID button
Dimensions	W x H x D: 17.2" (437mm) x 1.7" (43mm) x 27.75" (705mm) Package: 26.5" x 9" x 35"
Rail	Extendable lengths 25.6" to 33.05"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			PCI I/O	Drives	Cooling Fan	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9							
SC809T-780B		●	●	1x LP (per node)	8x 2.5" SATA (4x per node)	6x 14000rpm fans (4-pin)	780W high efficiency	4	83/100	40 lbs
SC809T-1200B		●	●			6x 14000rpm fans (4-pin)	1200W Gold Level w/ PMBus	4	83/100	40 lbs
SC809BTQ-1K28B		●	●			6x 14000rpm fans (4-pin)	1280W Platinum Level w/ PMBus	4	83/100	40 lbs
SC809TQ-1K03B		●	●			6x 14000rpm fans (4-pin)	1000W Titanium Level w/ PMBus	4	83/100	40 lbs

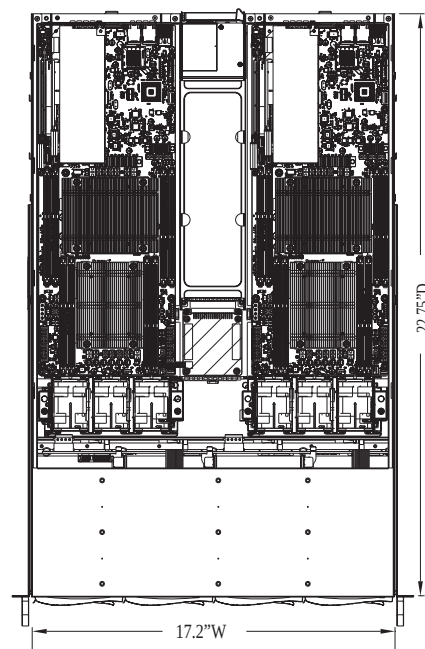
Optional Kit	Model Part #	Description
Rail	MCP-290-00052-0N-Bulk MCP-290-00056-0N	Quick-release outer rail for square hole rack (bulk pack, 10 sets) Quick-release outer rail for square hole short-depth rack (19"~26.4")



SC808BT-1K28B



Rear View



■ Black

Features

- ✓ Twin Dual and Single Intel® and AMD Processors supported
- ✓ 1000W **Titanium**/1280W **Platinum**/1200W **Gold Level** high-efficiency cold-swap power supply
- ✓ Independent power control for each node

Specifications

Form Factor	1U chassis support for Twin MB, max. size - 6.8" x 16.64"
CPU Support	Twin Dual and Single Intel® Processors and AMD Processors
Expansion	1x low-profile expansion slot (per node)
Drive Bays	2x 3.5" hot-swap SATA drive bays (per node)
Power Supply	1280W Platinum Level /1200W Gold Level high-efficiency power supply w/I ² C 1000W Titanium Level high-efficiency power supply w/I ² C
Cooling System	3x 4cm heavy duty counter-rotating fans with optimal fan speed control (per node)
Front Panel LEDs	Twin Power LED, hard drive activity LED, 2 network activity LEDs & System overheat LED
Front Panel Buttons	Twin Power On/Off button, System Reset button
Dimensions	W x H x D: 17.2" (437mm) x 1.7" (43mm) x 27.75" (705mm) Package: 26.5" x 9" x 35"
Rail	Extendable lengths 25.6" to 33.05"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			PCI I/O	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9							
SC808T-780B		●	●	1x LP (per node) 4x 3.5" SATA (2 per Node)	4x 3.5" SATA (2 per Node)	6x 14000rpm fans (4-pin)	780W high efficiency	4	83/100	40 lbs
SC808T-1200B		●	●			6x 14000rpm fans (4-pin)	1200W Gold Level w/PMBus	4	83/100	40 lbs
SC808BT-1K28B		●	●			6x 14000rpm fans (4-pin)	1280W Platinum Level w/PMBus	4	83/100	40 lbs
New! SC808T-1K03B		●	●			6x 14000rpm fans (4-pin)	1000W Titanium Level w/PMBus	4	83/100	40 lbs

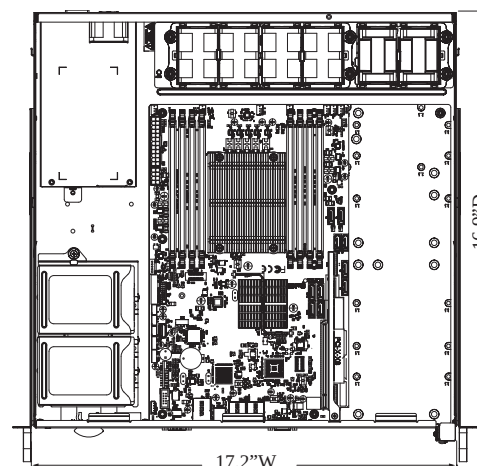
Optional Kit	Model Part #	Description
Rail	MCP-290-00052-0N-Bulk MCP-290-00056-0N	Quick-release outer rail for square hole rack (bulk pack, 10 sets) Quick-release outer rail for square hole short-depth rack (19"~26.4")



SC515-505



SC515-505 Front I/O



■ Black

Features

- ✓ 16.9" short depth chassis, flexible design for single/dual processor motherboard
- ✓ Compact, cost-effective high computing 1U node
- ✓ Front I/O access

Specifications

Form Factor	16.9" short depth 1U chassis support for motherboard size up to 12" x 13"
CPU Support	Dual and Single Intel® Processors and AMD Processors
Expansion	Up to 2x FH expansion slots
Drive Bays	SC515-R407: 2x 2.5" fixed HDDs SC515-350: 4x 2.5" HDDs or 1x 3.5" Internal HDD SC515-505: 1x fixed 3.5" HDD or 4x 2.5" fixed HDDs
Power Supply	SC515-R407: Redundant 400W Platinum Level high-efficiency power supplies w/I ² C SC515-350: 350W Platinum Level high-efficiency power supply SC515-505: 500W Platinum Level high-efficiency power supply
Cooling System	4x 40x56mm PWM fan, 2x 40x56mm fans for Add-on card cooling (Optional)
Front Panel LEDs	Power LED, Hard Drive Activity LED, 2 Network Activity LEDs, System Information LED
Front Panel Buttons	Power On/Off button; System Reset Button
Dimensions	W x H x D: 17.2" (437mm) x 1.7" (43mm) x 16.9" (429mm)
Rail	Extendable lengths 25.6" to 33.05"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

	Model	MB			PCI I/O	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
		X11	X10	X9							
New!	SC515-505	●	●	●	2x FH	1x fixed 3.5" HDD or 4x 2.5" HDDs	4x 40x56mm PWM fan	500W Platinum Level	3	35.8/39.1	16 lbs
New!	SC515-R407	●	●	●	2x FH	2x 2.5" HDDs	4x 40x56mm PWM fan	Redundant 400W Platinum Level	3	33A	18 lbs
New!	SC515-350	●	●	●	2x FH	4x 2.5" HDDs or 1x 3.5" Internal HDD	4x 40x56mm PWM fan	350W Platinum Level	3	29A	16 lbs

Optional Kit	Model Part #	Description
Rail	MCP-290-00056-0N	Quick release outer rail for square hole short-depth rack (19"~26.4")
HDD Bracket	MCP-220-51401-0N	Dual 2.5" HDD bracket
HDD Bracket	MCP-220-51402-0N	Toolless one 3.5" HDD bracket
Fan	FAN-0157L4	40x56mm 4-pin PWM 40x56mm 4-pin PWM 13000RPM
Cable	CBL-0082L CBL-0296L	Y-split, big 4pin to two RA SATA power extension, 15cm 4pin to 4pin fan power for power extension, 23cm
Riser Card Bracket	MCP-240-51502-0N	Riser card bracket for WIO motherboard in SC515

* SC515-R407 only support UP single Socket motherboard

SC515M

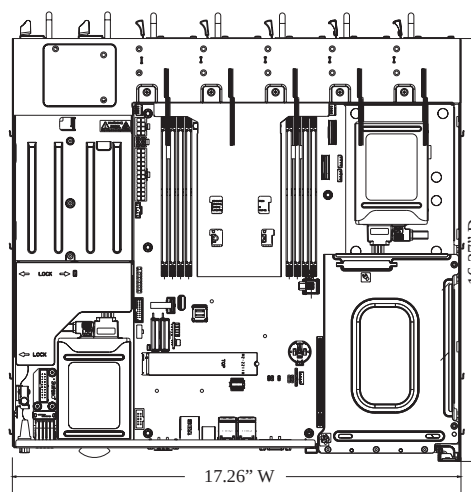
16.9" 1U Optimized Front I/O Chassis



SC515M-R804



SC515M-R804 Rear View



■ Black

Features

- ✓ Front I/O short depth resource optimized chassis
- ✓ Support STD and WIO MB size up to 12"x13"
- ✓ 800W/600W Redundant AC power supplies Platinum Level Certified
- ✓ 2x 2.5" Internal Drive Bays
- ✓ Up to 2x Full-height AOC expansion slot
- ✓ Up to 5x 40x56mm high-efficiency fans, hot-swappable
- ✓ Support Service Tag for system information

Specifications

Form Factor	16.9" short depth 1U chassis support for motherboard size up to 12" x 13"
CPU Support	Single Intel® Processors and AMD Processors
Expansion	Up to 2 full-height & half-length expansion slots
Drive Bays	Up to 2x 2.5" fixed with bracket
Power Supply	Redundant 800W/500W redundant Platinum Level power supplies
Cooling System	SC515M-R804: 3x 40x56mm hot-swappable counter-rotation PWM fans SC515M-R601: 5x 40x56mm hot-swappable counter-rotation PWM fans
Front Panel LEDs	2 Network Activity LEDs, Fan Fail/System Over Heat LED, HDD activity LED, Power Status LED
Front Panel Buttons	Power On/Off button; System Reset Button
Dimensions	W x H x D: 17.2" (437mm) x 1.7" (43mm) x 15.7" (399mm) Package: 27" (686mm) x 8" (203mm) x 24" (610mm)
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

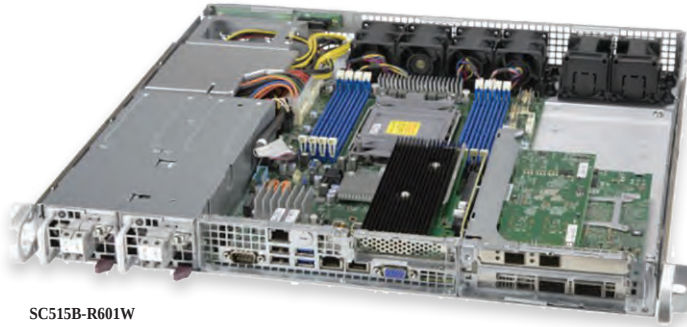
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

	Model	MB				PCI I/O	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
		X11	X11	X10	X9							
New!	SC515M-R804	●	●			2x FH/HL	2x 2.5" fixed HDDs	3x 40x56mm PWM fan	800W 1U redundant Platinum Level power supplies	4	66.6A	18 lbs
New!	SC515M-R601	●	●			2x FH/HL	2x 2.5" fixed HDDs	5x 40x56mm PWM fan	600W 1U redundant Platinum Level power supplies	3	50A	18 lbs

Optional Kit	Model Part #	Description
Rail	MCP-290-00056-0N	Quick-release outer rail for square hole short-depth rack (19"~26.4")
Riser Card Bracket	MCP-240-51507-0B	Riser Card Bracket for STD MB in SC515M
HDD Kit	MCP-220-00137-0N	Dual 2.5 HDD bracket (bracket base follow std 2.5
Air Shroud	MCP-310-51504-0B	Mylar Air Shroud for SC515M + X11 SDW
Chassis parts	MCP-290-00016-0N	1U open rack bracket set for CSE-PT51L,MCP-290-00054-0N
Chassis parts	MCP-290-00064-0N	Thumb screw adapter of inner rail for 1U 17.2

SC515B

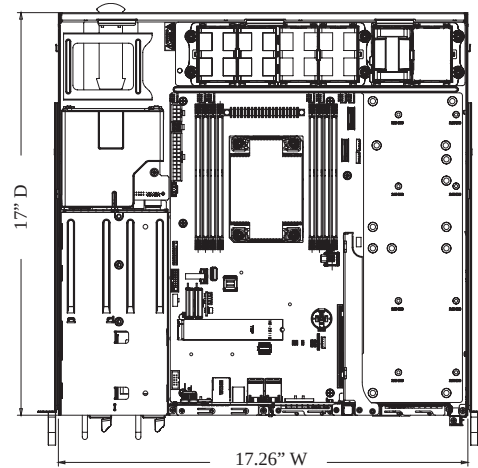
16.9" 1U Optimized Front I/O Chassis



SC515B-R601W



SC515B-R601W Rear View



■ Black

Features

- ✓ Short depth front I/O with front redundant power supply resource optimized chassis, chassis length 16.9 inches
- ✓ Support WIO MB, max MB size 12.3" x 13" and Proprietary MB 8" x 13"
- ✓ 1U 600W Redundant power supply DC48V input with PMBUS
- ✓ 2x 2.5" Internal Drive Bays
- ✓ 2x Full-height and 1x Low-profile AOC expansion slot
- ✓ 4x 40x40x56mm high-efficiency fans (2x more optional; 6x fans maximum)

Specifications

Form Factor	Support WIO MB, max MB size 12.3" x 13" and Proprietary MB 8" x 13"
CPU Support	Dual and Single Intel® and AMD processors
Expansion	2 full height expansion slots; 1 low-profile expansion slot
Drive Bays	Up to 2x 2.5" fixed with bracket
Power Supply	600W Redundant short depth DC48V input redundant power supply
Cooling System	4x 40x56mm PWM fans; 2x fans for AOC cooling
Front Panel LEDs	Fan Fail/System Over Heat LED, Power LED
Front Panel Buttons	Power On/Off button
Dimensions	W x H x D: 17.2" (437mm) x 1.7" (43mm) x 16.9" (429mm) Package: 27" (686mm) x 8" (203mm) x 24" (610mm)
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	X11	MB X11	X10	PCI I/O	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
New! SC515B-R601W	●	●		2x FH 1 LP	2x 2.5" fixed HDDs	4x 40x56mm PWM fans; 2x fans for AOC cooling	600W 1U redundant short-depth power supplies	3	A	25.2 lbs

Optional Kit	Model Part #	Description
Rail	MCP-290-00056-0N	Quick-release outer rail for square hole short-depth rack (19"~26.4")
Riser Card Bracket	MCP-240-51507-0B	Riser Card Bracket for STD MB in SC515M
HDD Kit	MCP-220-00137-0N	Dual 2.5 HDD bracket (bracket base follow std 2.5
Air Shroud	MCP-310-51504-0B	Mylar Air Shroud for SC515M + X11 SDW
Chassis parts	MCP-290-00016-0N	1U open rack bracket set for CSE-PT51L,MCP-290-00054-0N
Chassis parts	MCP-290-00064-0N	Thumb screw adapter of inner rail for 1U 17.2



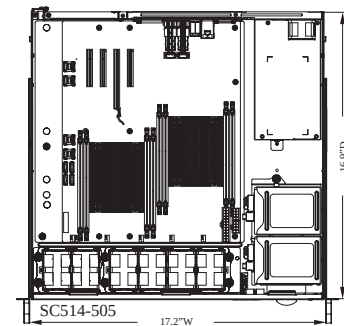
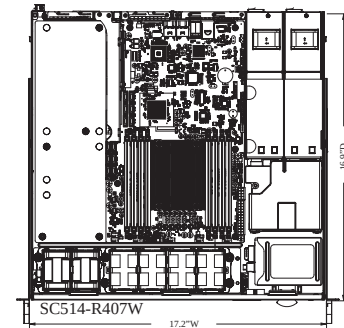
SC514-R407W



SC514-505



SC514-R407W Rear View



Features

- ✓ 16.9" short depth chassis, flexible design for single/dual Processor motherboard
- ✓ Compact, cost-effective high computing 1U node

Specifications

Form Factor 16.9" short depth 1U chassis support for motherboard size up to 12" x 13"

CPU Support Dual and Single Intel® Processors and AMD Processors

Expansion SC514-505: up to 2x FH expansion slots

SC514-R407W: 2x FH expansion slots, 1x LP expansion slot

SC514-R407C: 1x FH expansion slot

Drive Bays SC514-505: 1x fixed 3.5" HDD or 4x 2.5" fixed HDDs

SC514-R407C/SC514-R407W: 2x 2.5" fixed HDDs

Cooling System 4x 40x56mm PWM fan, 2x 40x56mm fans for Add-on card cooling (Optional)

Front Panel LEDs Power LED, Hard Drive Activity LED, 2 Network Activity LEDs, System Information LED

Front Panel Buttons Power On/Off button; System Reset Button

Dimensions W x H x D: 17.2" (437mm) x 1.7" (43mm) x 16.9" (429mm)

Rail Extendable lengths 25.6" to 33.05"

Temperature Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)

Humidity Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

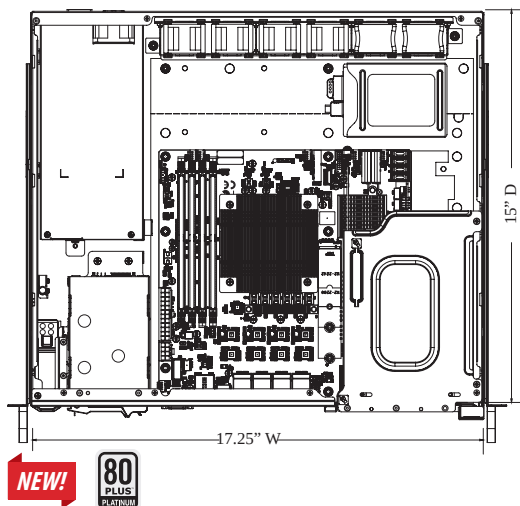


Black

Model	MB			PCI I/O	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9							
 SC514-505	●	●	●	2x FH	1x fixed 3.5" HDD; or 4x 2.5" HDDs	4x 40x56mm PWM fan	500W Platinum Level	3	35.8/39.1	16 lbs
New! SC514-R407C	●	●	●	1x FH	2x 2.5" HDDs w/ bracket	4x 40x56mm PWM fan	Redundant 400W Platinum Level	3	33A	18 lbs
New! SC514-R407W	●	●	●	2x FH +1x LP	2x 2.5" HDDs w/ bracket	4x 40x56mm PWM fan	Redundant 400W Gold Level	3	33A	18 lbs

Optional Kit	Model Part #	Description
Rail	MCP-290-00056-0N	Quick release outer rail for square hole short-depth rack (19"~26.4")
HDD Bracket	MCP-220-51401-0N	Dual 2.5" HDD bracket
HDD Bracket	MCP-220-51402-0N	Toolless one 3.5" HDD bracket
Fan	FAN-0156L4	40x56mm 4-pin PWM 40x56mm 4-pin PWM 13000RPM
Cable	CBL-0082L CBL-0296L	Y-split, big 4pin to two RA SATA power extension, 15cm 4pin to 4pin fan power for power extension, 23cm
Riser Card Bracket	MCP-240-51403-0N	Riser card bracket for WIO motherboard in SC514

* For OEM only, minimum quantity requires.



Features

- ✓ 15" Mini 1U chassis support for maximum motherboard size - 10" x 12" ATX
- ✓ WB: 2x Full-height & Half-length expansion slots; B: 1x Full-height & Half-length expansion slots
- ✓ 2x 2.5" hot-swap drive bay, Up to optional 4x 2.5" fixed Internal Drive with bracket
- ✓ 4x 40mm x28mm PWM fan(s)
- ✓ 1U 505W/350W Multi-output Platinum Level Power Supply

■ Black

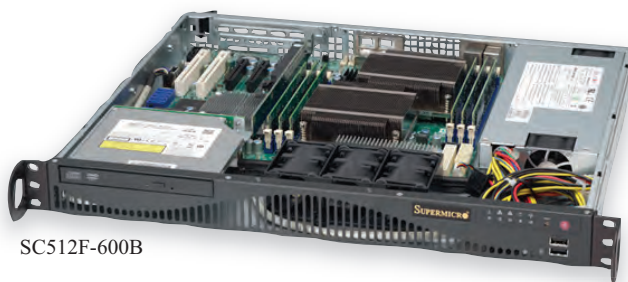
Specifications

Form Factor	15" Mini 1U chassis support for maximum motherboard size - 10" x 12" ATX
CPU Support	Dual and Single Intel® Processors and AMD Processors
Expansion	WB: 2x full-height & half-length expansion slots (Riser Card Required) B: 1x full-height & half-length expansion slot
Drive Bays	2x 2.5" hot-swap drive bay; up to Optional 4x 2.5" fixed with bracket SAS or enterprise SATA HDD only recommended
Power Supply	350B/350WB: 350W Multi-output Platinum Level Power Supply 505WB: 500W Multi-output Platinum Level power supply w/ PMbus
Cooling System	4x 40mm x28mm PWM fans; Optional 2x 40x28mm PWM fans
Front Panel LEDs	2 Network Activity LEDs, HDD activity LED, Power Status LED, System Information LED
Front Panel Buttons	Power On/Off button; Unit Identification (UID) button
Backplane	2-Port 12Gbps Backplane for 2x2.5" SAS/SATA HDD/SSD
Dimensions	W x H x D: 17.2" (437mm) x 1.7" (43mm) x 16.9" (429mm)
Rail	Extendable lengths 25.6" to 33.05"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			PCI I/O	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9							
New! SC513BTQC-350B	●	●		1x FH & HL	2x 2.5" hot-swap drive bay; optional 4x 2.5" fixed with bracket	4x 40x28mm PWM fans; optional 2x 40x28mm PWM fans	350W Multi-output Platinum Level power supply	3	29A	14.5 lbs
New! SC513BTQC-350WB	●	●		2x FH & HL (Riser Card Required)	2x 2.5" hot-swap drive bay; optional 4x 2.5" fixed with bracket	4x 40x28mm PWM fans; optional 2x 40x28mm PWM fans	350W Multi-output Platinum Level power supply	3	29A	14.5 lbs
New! SC513BTQC-505WB	●	●		2x FH & HL (Riser Card Required)	2x 2.5" hot-swap drive bay; optional 4x 2.5" fixed with bracket	4x 40x28mm PWM fans; optional 2x 40x28mm PWM fans	500W Multi-output Platinum Level power supply w/ PMbus	3	41A	14.5 lbs

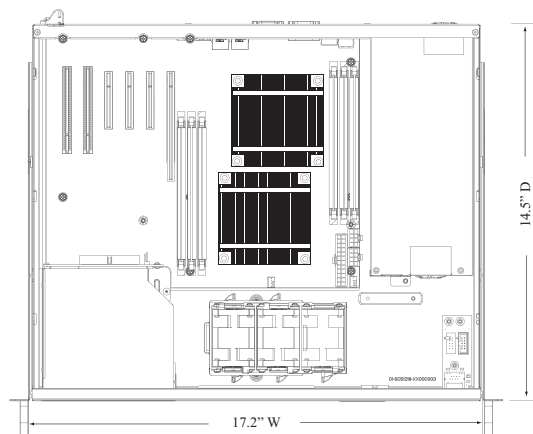
Optional Kit	Model Part #	Description
2.5" HDD Bracket	MCP-220-00137-0N	Dual 2.5 HDD bracket
Fan Kit	FAN-0156L4	40x40x56 mm 13K-11K RPM Counter-rotating Fan,RoHS/REACH
Fan Kit	CSE-PT0135	FAN HOLDER FOR SIX 40X56MM COUNTER ROTATING FANS
Fan Kit	MCP-340-00035-0B	Dummy fan 40x56mm for 40x56 counter-rotating fan (cost-effective)
Cable	CBL-0234L	4-PIN POWER SUPPLY Y-CABLE FOR HDD, 15CM, 20AWG
Cable	CBL-0481L	SATA,INT,ROUND,ST-ST,81CM,30AWG
Cable	CBL-CDAT-0662	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,61.5CM,28AWG
Cable	CBL-0206L	SATA,INT,ROUND,ST-ST,48CM,26AWG



SC512F-600B



Rear View (SC512F-600B)



■ Black

Features

- ✓ 14.5" depth small form factor 1U server, high performance fans for dual processor motherboards
- ✓ 440W **Platinum Level** (94%+) and 600W/350W **Gold Level** (92%+) high efficiency power supply

Specifications

Form Factor	14.5" Mini 1U chassis support for maximum motherboard size: ATX 12" x 10"		
CPU Support	Dual and Single Intel® processors and AMD processors		
Expansion	1 full-height & half-length expansion slot (with Riser Card)		
Peripheral Bays	SC512F-600LB/600B: 2 USB 2.0 ports; optional DVD-ROM SC512F-350B1: optional DVD-ROM		
Drive Bays	SC512F-600LB/600B: 1x 3.5" fixed SC512F-350B1: 2x 3.5" fixed or 2x 2.5" fixed with bracket		
Power Supply	SC512F-600LB/600B: 600W Gold Level high-efficiency power supply SC512F-350B1: 350W Platinum Level high-efficiency power supply		
Cooling System	SC512F-600B/600LB: 3x 4cm counter-rotating fans SC512F-350B1: 2x 4cm counter-rotating fans		
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & System Information LED		
Front Panel Buttons	Power On/Off button & System Reset button		
Dimensions	W x H x D: 17.2" (437mm) x 1.7" (43mm) x 14.5" (369mm) Package: 19.5"L x 6.9"W x 22.4"H		
Rail (optional)	Extendable lengths 25.6" to 33.05"		
Temperature	Operating 5° ~ 35°C (41° to 95°F) non-operating -40° ~ +70°C (-40° to 158°F)		
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing		

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

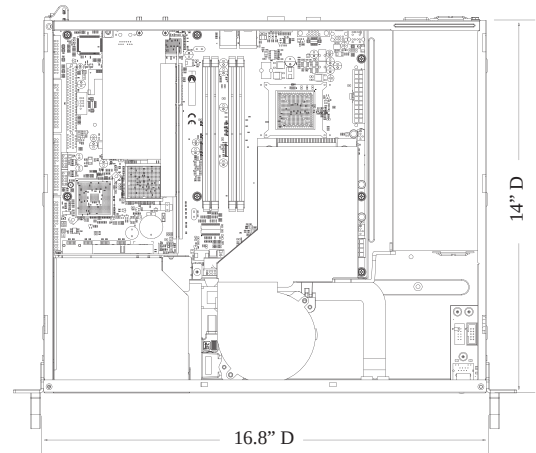
Model	MB			PCI I/O	Drive	USB	DVD-ROM	Cooling System	Power	+5V _{SB}	+12V	Gross Weight
	X11	X10	X9									
SC512F-600B		●	●	1 FH	1 fixed	2.0	optional	3x 12000rpm fans	600W Gold Level	3	32	14 lbs
SC512F-600LB		●	●	1 FH	1 fixed	—	—	3x 12000rpm fans	600W Gold Level	3	32	14 lbs
New! SC512F-350B1	●	●	●	1 FH	2 fixed	—	optional	2x 12000rpm fans	350W Platinum Level	3	29	13 lbs

Optional Kit	Model Part #	Description
Rail Kit	MCP-290-00004-03	Chassis rail set (inner and outer)
	MCP-290-00055-0N	Quick-release rail set for square hole rack (inner and outer)
	MCP-290-00056-0N	Quick-release outer rail for square hole short-depth rack (19"~26.4")
HDD Tray	MCP-220-00051-0N	Single 2.5" fixed HDD bracket
	MCP-220-00044-0N	Dual 2.5" fixed HDD bracket (without DVD)
Front HDD Kit	MCP-220-81504-0N	12G 2.5" Hot-swap Floppy Size Drive Kit with Status LED Support
I/O Shield	MCP-260-00079-0N	1U I/O shield for A1SRM-LN7F/LN5F motherboards

* For inputs above 180VAC



SC512L-200B



Rear view (SC512-203B)



Features

■ Black

- ✓ 14" depth small form factor 1U server, heavy duty blower for superior cooling
- ✓ 200W **Gold Level** high-efficiency power supply

Specifications

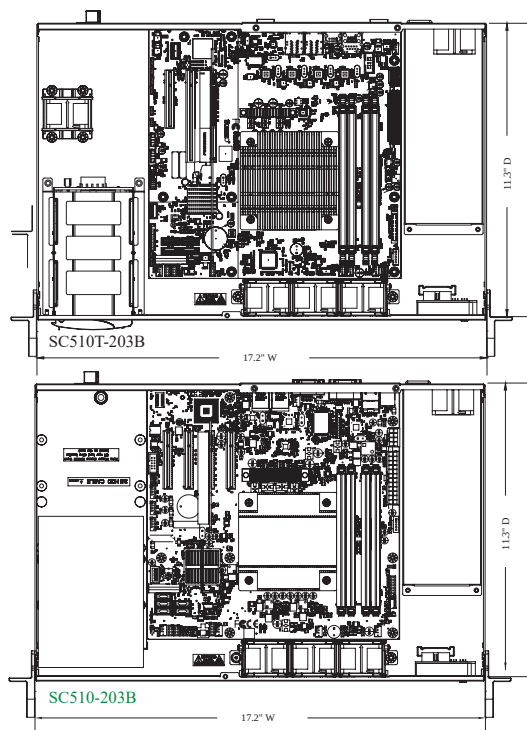
Form Factor	14" Mini 1U chassis support for maximum motherboard size: 12" x 9.6" ATX		
CPU support	Single Intel® processors and AMD processors		
Expansion	1 full-height & half-length expansion slot (with Riser Card)		
Drive Bays	SC512-203B/200B/SC512F-200: 1x 3.5" fixed or 2x 2.5" fixed (w/o CD/DVD) with bracket SC512(L)-200: 200W power supply		
Power Supply	SC512-203B: 200W Gold Level high-efficiency power supply; SC512-200B: 200W 80PLUS® high-efficiency power supply		
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & System Information LED		
Front Panel Buttons	Power On/Off button & System Reset button		
Dimensions	W x H x D: 16.8" (426mm) x 1.7" (43mm) x 14" (356mm) Package: 19.5"L x 6.9"W x 22.4"H		
Rail (optional)	Extendable lengths: 13.1" to 33.1"		
Temperature	Operating 5° ~ 35°C (41° to 95°F) non-operating -40° ~ +70°C (-40° to 158°F)		
Humidity	Operating 8 - 90% non-condensing non-operating 5 - 95% non-condensing		

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			PCI I/O	Drive	USB	DVD-ROM	Cooling System	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9									
SC512-203B		●	●	1 FH	1 fixed	2.0	Optional	1x 5000rpm blower	200W Gold Level	2	16	12.8 lbs
SC512L-200B		●	●	1 FH	2 fixed	—	—	1x 3800rpm blower	200W	2	18	14 lbs



Optional Kit	Model Part #	Description
Rail Kit	CSE-PT8L	Rail kit for 1U SC512, SC513, SC811 Chassis
HDD Tray	MCP-220-00051-0N	Single 2.5" fixed HDD bracket
	MCP-220-00044-0N	Dual 2.5" fixed HDD bracket (without CD/DVD)
I/O Shield	MCP-260-00079-0N	1U I/O shield for A1SRM-LN7F/LN5F motherboards



■ Black

Features

- ✓ 11.3" depth small form factor 1U, 200W **Gold Level** high-efficiency power supply

Specifications

Form Factor	11.3" Mini 1U chassis support for maximum motherboard size: Micro-ATX 9.6" x 9.6"
CPU Support	Single Processors Intel® Xeon® Processors 3000 product family (65W) / Intel® Xeon® Processor 3400 product family (45W)
Expansion	SC510/SC510L: 1 full-height & half-length expansion slot with riser card (optional) SC510T: 1 low profile expansion slot (with riser card)
Drive Bays	SC510/SC510L: 1x 3.5" or up to 4 x 2.5" fixed drives (optional) SC510T: 2x 2.5" hot-swappable drives
Power Supply	SC510/SC510T-203B: 200W Gold Level high-efficiency power supply; SC510/SC510T-200B: 200W 80 PLUS® Certified power supply with thermal control fan
Cooling System	SC510/SC510L: 2x 4cm fan SC510T: 3x 4cm fan (2 for motherboard, 1 for HDD)
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & System Information LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	W x H x D: 17.2" (437mm) x 1.7" (43mm) x 11.3" (287mm) Package: 25.4" x 6.1" x 19.8"
Temperature	Operating: 5° ~ 35° C (41° to 95° F) Non-operating: -40° ~ 70° C (-40° to 158° F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

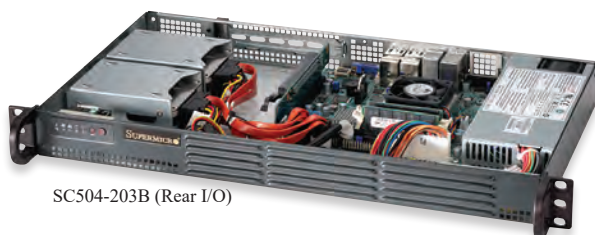
● Optimized ○ Compatible ● Optimized low-power configuration ○ Compatible low-power configuration

Model	UP MB			PCI I/O	Drive	Cooling System	Power Supply	+5VSB	+12V	Gross Weight
SC510T-203B	●	●	●	1x LP	2x 2.5" hot-swap	3x 8500rpm fans	200W Gold Level high-efficiency	2	16	12 lbs
SC510T-200B	○	●	●	1x LP	2x 2.5" hot-swap	3x 8500rpm fans	200W 80PLUS® Certified high-efficiency	2	16	12 lbs
SC510-203B	●	●	●	1x FH	1x 3.5" fixed	2x 8500rpm fans	200W Gold Level high-efficiency	2	16	11 lbs
SC510-200B	●	●	●	1x FH	1x 3.5" fixed	2x 8500rpm fans	200W 80PLUS® Certified high-efficiency	2	16	11 lbs
SC510L-200B		●	●	1x FH	1x 3.5" fixed	2x 8500rpm fans	200W power supply	2	16	12 lbs

Optional Kit	Model Part #	Description
2.5" HDD Bracket	MCP-220-00044-0N	2.5" HDD bracket for 2 x 2.5" HDD
	MCP-220-00051-0N	2.5" HDD bracket for 1 x 2.5" HDD
Air Shroud	MCP-310-51002-0B	SC510 air shroud (optional for SC510L)
I/O Shield	MCP-260-00085-0B	1U I/O shield for A1SRM-LN7F/LN5F
Riser Card Bracket	MCP-120-00032-0N	SC510 riser card bracket
Fan	FAN-0100L4	40 x 28mm 4-pin PWM fan, 8500 RPM

SC504/505

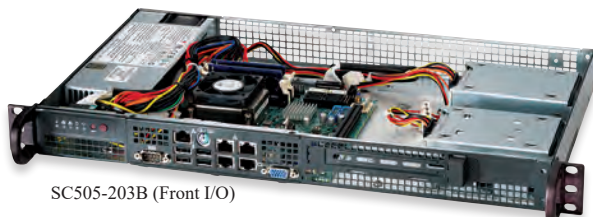
9.8" Depth 1U Optimized Space Efficiency



SC504-203B (Rear I/O)



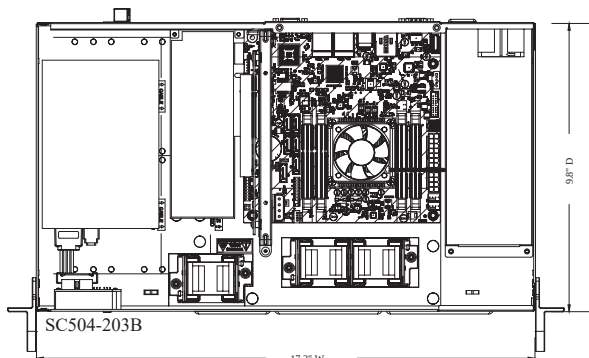
SC504-203B Rear View



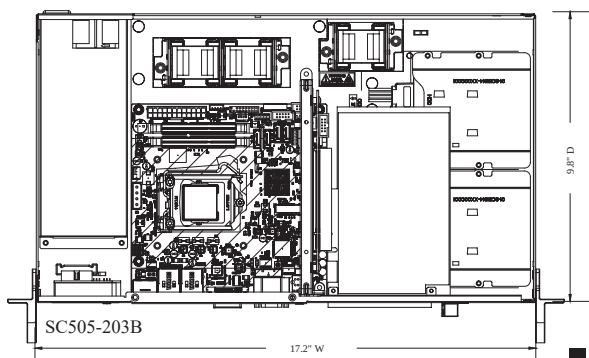
SC505-203B (Front I/O)



SC505-203B Rear View



SC504-203B



SC505-203B



Black

Features

- ✓ 9.8" depth small form factor 1U, 200W power supply
- ✓ Optimized for Mini-ITX (6.75" x 6.75") motherboard
- ✓ SC504: Rear I/O access; SC505: Front I/O access

Specifications

Form Factor	9.8" mini 1U chassis support for maximum motherboard size: Mini-ITX 6.75" x 6.75"		
CPU Support	Supports 3rd Generation Intel® Core™ Processors, up to 35W		
Expansion	Optional full-height & half-length expansion slot (with Riser Card)		
Drive Bays	Up to 2x 3.5" or 4x 2.5" fixed drives (optional)		
Power Supply	200W Gold Level high-efficiency power supply with thermal control fan		
Cooling System	high-efficiency power supply with thermal control fan		
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs & System Information LED		
Front Panel Buttons	Power On/Off button, System Reset button		
Dimensions	W x H x D: 17.2" (437mm) x 1.7" (43mm) x 9.8" (249mm) Package: 25.8" x 6.1" x 18.3"		
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)		
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing		

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration



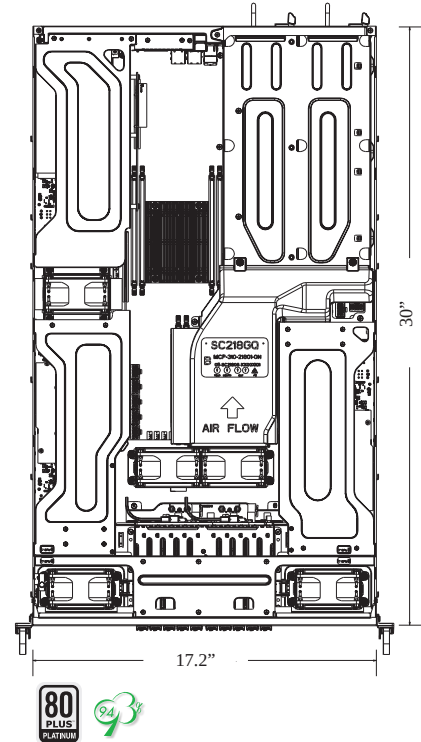
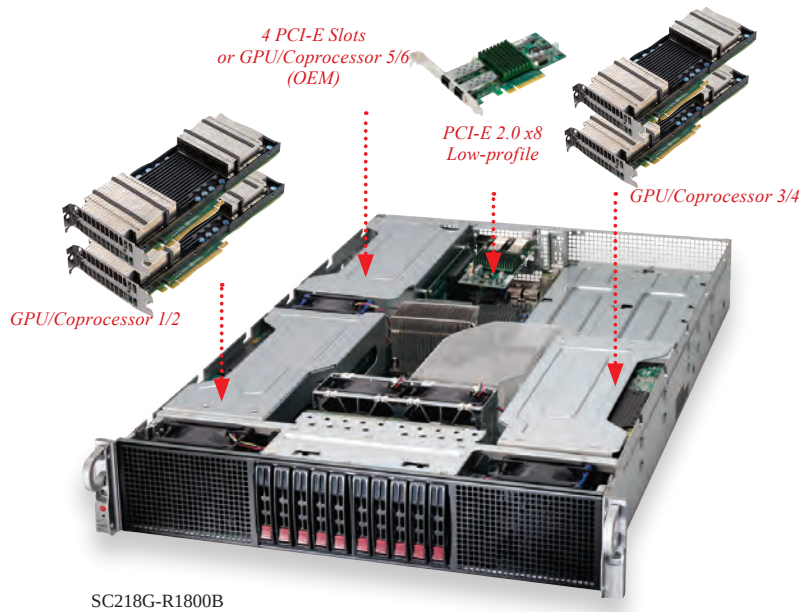
New!

Model	UP MB			PCI I/O	Drive	Power Supply	+5VSB	+12V	Gross Weight
	X11	X10	X9						
SC504-203B	●	●	●	1x FH	2 fixed	200W Gold Level high-efficiency	3	16	10 lbs
SC505-203B	●	●	●	1x FH	2 fixed	200W Gold Level high-efficiency	3	16	10 lbs

Optional Kit	Model Part #	Description
2.5" HDD Bracket	MCP-220-00044-0N	2.5" HDD bracket for 2x 2.5" HDD
	MCP-220-00051-0N	2.5" HDD bracket for 1x 2.5" HDD
Fan	FAN-0100L4	40x 28mm 4-pin PWM fan, 8500 RPM (up to three)
Fan Bracket	MCP-320-81302-0B	40x 28mm fan holder (may order two for Dual fan configuration)
I/O Shield	MCP-260-00068-0B	I/O Shield for X9SCAA/-L, X10SBA/-L
	MCP-260-00066-0B	I/O Shield for X9SPV-M4
	MCP-260-00076-0B	I/O Shield for X10SLV-Q
	MCP-260-00082-0B	I/O Shield for H9SKV
Active Heatsink	SNK-P0049A4	Active CPU cooler for the 4th Generation Intel® Core™ Processors (X10SLV-Q)



Optimized for 4x Double-width High-end GPUs



■ Black

Features

- ✓ Redundant 2000W / 1800W **Platinum Level** (94%+) high-efficiency power supplies
- ✓ 10x 2.5" hot-swap SAS / SATA HDD Bays; 5x 8cm heavy duty fans with Intelligent cooling fan speed control
- ✓ Ideal for GPU/Coprocessor Server, Mission-critical app., enterprise server, large database, e-business, on-line transaction processing, oil & gas, medical app.

Specifications

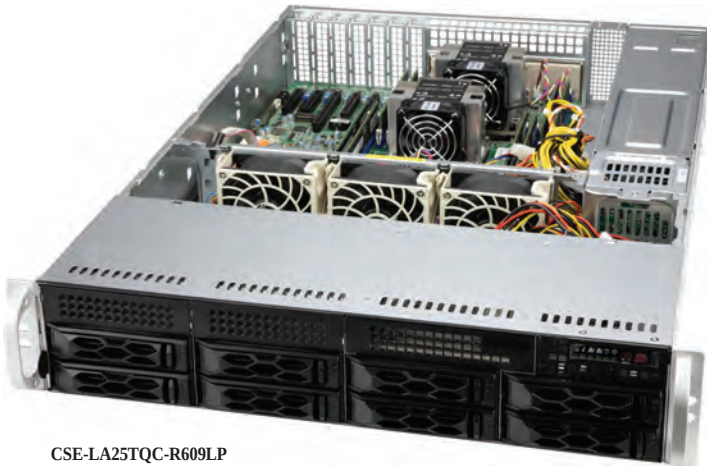
Form Factor	2U chassis supports proprietary GPU/Coprocessor motherboard
CPU Support	Dual and Single Intel® Processors
Expansion	Optimized for 4x double-width high-end GPU/Coprocessor (max. length 10.5"), designed for high-end heterogeneous computing applications 4 (x16) PCI-E 3.0 (support 4 double width GPU/Coprocessor), 4 (x8) PCI-E 3.0 (in x16), and 1 (x4) PCI-E 2.0 (in x16) slots
Drive Bays	10x 2.5" hot-swap SAS/SATA HDD bays (4 SATA2, 6 SATA3);
Power Supply	Redundant 1600/1800W / 2000W Platinum Level (94%+) high-efficiency power supplies
Cooling System	5x 8cm heavy duty fans with Intelligent cooling fan speed control
Front Panel LEDs	Power LED, HDD activity LED, 2 Network Activity LEDs, Overheat/Fan Failed LED and Power Failed LED
Front Panel Buttons	Power On/Off button, system reset button
Dimensions	W x H x D: 17.2"x 3.5"x 30" (437 x 89 x 684 mm) Package: 26.4" x 11.3" x 43.3" (670 x 287 x 1099mm)
Rail	Extendable lengths: 26.5" to 36.4"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	X11	MB X10	X9	PCI I/O	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
SC218G-R1800B*			●	4x FH 2x LP	10x 2.5" SAS/SATA	5x 80x38mm 11,500rpm	Redundant 1800W Platinum Level (94%) w/ PMBus	4	76	52 lbs
SC218GH-R1K66B*		●	●	4x FH 2x LP	10x 2.5" SAS/SATA	5x 80x38mm 11,500rpm	Redundant 1600W Platinum Level (94%) w/ PMBus	4	76	52 lbs
SC218GH-R1K82B*		●	●	4x FH 2x LP	10x 2.5" SAS/SATA	5x 80x38mm 11,500rpm	Redundant 1800W Platinum Level (94%) w/ PMBus	4	76	52 lbs
SC218GH-R2K03B*		●	●	4x FH 2x LP	10x 2.5" SAS/SATA	5x 80x38mm 11,500rpm	Redundant 2000W Platinum Level (94%) w/ PMBus	4	76	52 lbs

Optional Kit	Model Part #	Description
Rail	MCP-290-00058-0N	Quick-release outer rail for square hole short-depth rack (19"~26.6")

* For OEM only - Minimum quantity required.



CSE-LA25TQC-R609LP



CSE-LA25TQC-R609LP (Rear View)



■ Black

Features

- ✓ 2U chassis support max. motherboard size - ATX 12" x 10", E-ATX 12" x 13", EE-ATX 13" x 13.68"; support up to ATX 12"x13" MB with rear 2.5" HDD option installed
- ✓ 8x 3.5"(tool-less) or 2.5"(screw) hot-swap SAS3/SATA drive bay
optional 2x 3.5" fixed drive bay:
optional rear 2x 2.5" hot-swap drive bay kit
- ✓ 2U 8-Slot 12G Backplane for 8x 3.5" SAS3/SATA HDD/SSD
- ✓ 600W / 650W 1U Redundant Power Supply
- ✓ 7 low-profile expansion slots
- ✓ 3x 80mm heavy duty fans with PWM fan(s) speed control
- ✓ Support Service Tag for system information
- ✓ OEM Only, MOQ Applies

Specifications

Form Factor	2U chassis support max. motherboard size - ATX 12" x 10", E-ATX 12" x 13", EE-ATX 13" x 13.68". Support up to ATX 12"x13" MB with rear 2.5" HDD option installed
CPU Support	Dual and Single Intel® and AMD processors; Support Supermicro motherboards: X11DPi-N, X11DPi-NT, X11SRL-F, X11DPL-i, X11SPL-F
Expansion	7 low-profile expansion slots
Peripheral Drives	Optional 1x slim DVD-ROM drive bay; Optional 2x USB 2.0 ports; Optional 1x COM port tray; Optional 2x USB 3.0 ports
Drive Bays	8x 3.5" (tool-less) or 2.5" (screw) hot-swap SAS3/SATA drive bay; Optional 2x 3.5" fixed drive bay; Optional 2x 2.5" hot-swap SAS3/SATA drive bay
Power Supply	2x 600W / 650W 1U Redundant Power Supply
Cooling System	3x 80mm heavy duty fans with PWM fans speed control
Front Panel LEDs	2 Network Activity LEDs, HDD activity LED, Power Status LED, Power Fail LED, System Information LED
Front Panel Buttons	Power On/Off button; System Reset Button
Backplane	8-port 2U SAS3 12Gbps TQ backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD/SSD
Dimensions	W x H x D: 17.2" (437mm) x 3.5" (89mm) x 25.5" (647mm); Package: 24" (610mm) x 9" (229mm) x 34" (864mm)
Temperature	Operating: 5°C - 35°C (41°F - 95°F) Non-operating: -40°C - 70°C (-40°F - 158°F)
Humidity	8% - 90% (non-condensing) Non-operating: 5% - 95% (non-condensing)
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration	

Model	MB			PCI I/O	Drive	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9						
CSE-LA25TQC-R609LP (OEM)	●	●	●	7 LP	8x 3.5" (tool-less) or 2.5" (screw) hot-swap SAS3/SATA drive bay; Optional 2x 3.5" fixed drive bay; Optional 2x 2.5" hot-swap SAS3/SATA drive bay	Redundant 500W/650W Platinum Level	4	54.16A	33 lbs

Optional Kit	Model Part #	Description
Rail	MCP-290-00053-0N	Rail set, quick/quick, default for 2.3U 17.2" & W
Short Rail	MCP-290-00058-0N	Short rail set, quick release, 19.6" & ~26.9" & Extendable Length
HDD Kit	MCP-220-82616-0N	12G 2.5x2 Drive Kit w/ Status LED(216B/826B/417B/846X/847B)
Cable	CBL-0160L	NEMA5-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
Air Shroud	MCP-310-29001-0N	SC825/826/216/213 Intel DP X9,X8 air shroud 13.68x13/12x13
HDD Kit	MCP-220-82502-0B	Black fixed 3.5" HDD tray for CSE-825/CSE-LA25
Front Bezel	MCP-210-82503-0B	Black Front Bezel
Intrusion kit	MCP-290-00088-0N	



CSE-LA26E1C4-R609LP



CSE-LA26E1C4-R609LP (Rear View)



■ Black

Features

- ✓ 2U chassis support max. motherboard size - ATX 12" x 10", E-ATX 12" x 13", EE-ATX 13" x 13.68"
Support up to ATX 12"x13" MB with rear 2.5" HDD option installed
- ✓ 12x 3.5" (tool-less) or 2.5" (screw) hot-swap SAS3/SATA drive bay with SES3; Optional rear 2x 2.5" hot-swap drive bay kit
- ✓ 12-port 2U SAS3 12Gbps single-expander backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD/SSD and 4x NVMe/SAS3/SATA3 storage devices
- ✓ 920W / 600W / 650W 1U Redundant Power Supply
- ✓ 7x low-profile expansion slots
- ✓ 3x 8cm high-performance PWM fans
- ✓ Support service tag for system information
- ✓ OEM Only, MOQ Applies

Specifications

Form Factor	2U chassis support max. motherboard size - ATX 12" x 10", E-ATX 12" x 13", EE-ATX 13" x 13.68". Support up to ATX 12"x13" MB with rear 2.5" HDD option installed
CPU Support	Dual and Single Intel® and AMD processors; Support Supermicro motherboards: X11SPH-nCTF, X11SPH-nCTPF, X11DPH-T, X11DPH-i, X11DPH-Tq, X11SRL-F, X11DPL-i
Expansion	7 low-profile expansion slots
Drive Bays	12x 3.5" (tool-less) or 2.5" (screw) hot-swap SAS3/SATA drive bay with SES3; Optional 2x 2.5" hot-swap drive bay
Power Supply	2x 600W / 650W 1U Redundant Power Supply
Cooling System	3x 80mm heavy duty fans
Front Panel LEDs	2 Network Activity LEDs, Fan Fail/System Over Heat LED, HDD activity LED, Power Status LED, Unit Identification (UID) LED
Front Panel Buttons	Power On/Off button; System Reset Button
Backplane	12-port 2U SAS3 12Gbps single-expander backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD/SSD and 4x NVMe/SAS3/SATA3 storage devices
Dimensions	W x H x D: 17.2" (437mm) x 3.5" (89mm) x 25.5" (647mm); Package: 24" (610mm) x 9" (229mm) x 34" (864mm)
Temperature	Operating: 5°C - 35°C (41°F - 95°F) Non-operating: -40°C - 70°C (-40°F - 158°F)
Humidity	8% - 90% (non-condensing) Non-operating: 5% - 95% (non-condensing)
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration	

Model	MB			PCI I/O	Drive	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9						
SCLA26E1C4-R609LP (OEM)	●	●	●	7 LP	12x 3.5" (tool-less) or 2.5" (screw) hot-swap SAS3/SATA drive bay with SES3; Optional 2x 2.5" hot-swap drive bay	Redundant 500W/650W Platinum Level	4	54.16A	37 lbs
Coming Soon! SCLA26AC12-R920LP1	●	●	●	7 LP	12x 3.5" (tool-less) or 2.5" (screw) hot-swap SAS3/SATA/NVMe drive bay with SES3; Optional 2x 2.5" hot-swap drive bay	Redundant 920W Platinum Level	4	54.16A	37 lbs

Optional Kit	Model Part #	Description
Rail	MCP-290-00053-0N	Rail set, quick/quick, default for 2.3U 17.2" & 26.9" & 26.9" & 26.9"
Short Rail	MCP-290-00058-0N	Short rail set, quick release, 19.6" & 26.9" & 26.9" & 26.9"
HDD Kit	MCP-220-82616-0N	12G 2.5x2 Drive Kit w/ Status LED(216B/826B/417B/846X/847B)
Cable	CBL-0160L	NEMAS-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
Air Shroud	MCP-310-29001-0N MCP-310-82603-0	SC825/826/216/213 Intel DP X9,X8 air shroud 13.68x13/12x13 Mylar air shroud for X11SPH
Intrusion kit	MCP-290-00088-0N	

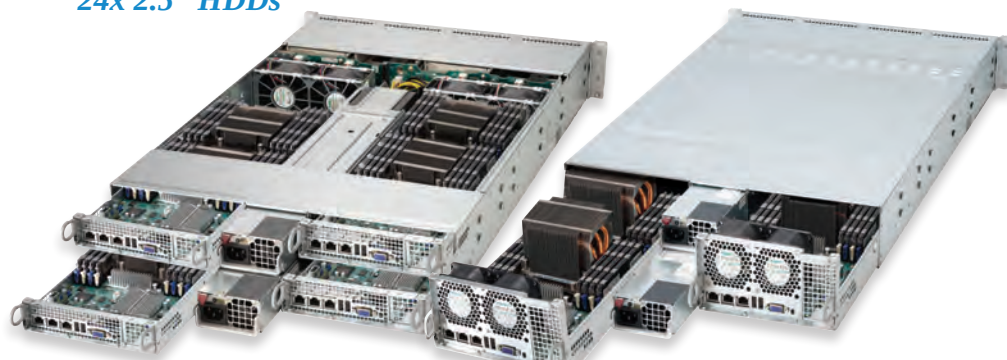
SC217HD/HQ

High Performance & Double Density

2UTwin²® / 2UTwin

Versatile Modular Design supports Twin Motherboards

24x 2.5" HDDs



2UTwin² - SC217HQ-R1K62MB

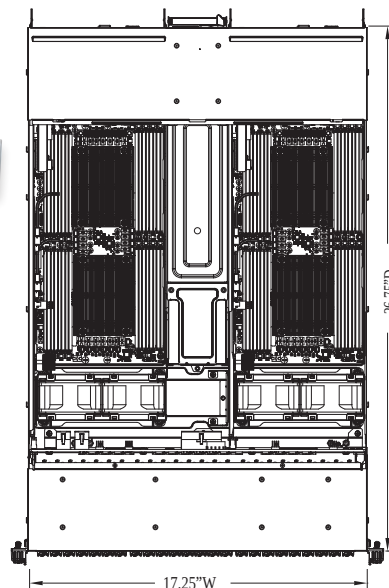
2UTwin - SC217HD-R1K28MB



SC217HQ Front View



SC217HD Front View



■ Black

Features

- ✓ Up to 4x swappable motherboard modules in 2U server
- ✓ Independent front control panel with UID and Fail-Monitor for each node
- ✓ 24x 2.5" hot-swap SAS/SATA drive bays
- ✓ 1600W **Titanium**/1280W / 1620W **Platinum Level** redundant high-efficiency power supplies

Specifications

Form Factor	2U rackmount chassis (26.75" depth) supports max. 4x Supermicro Twin motherboards		
CPU Support	Up to 4x Dual Intel® Processors and AMD Processors		
Expansion	SC217HD: 2x FH + 1x LP AOC expansion slots (3x slot per node) SC217HQ: 1x LP AOC expansion slots		
Drive Bays	SC217HD: 12x 2.5" SAS / SATA hot-swap HDDs per node SC217HQ: 6x 2.5" SAS / SATA hot-swap HDDs per node		
Cooling System	4x 80mm heavy duty fans with PWM fan speed control; Optional 2x 6cm rear cooling fan (SC217HD-R1K28MB)		
Front Panel LEDs	4x Power status LED; UID LED; Network activity LEDs; System Overheat / Fan Fail / Power Fail LED (2x for SC827HD)		
Front Panel Buttons	SC217HD: 2x Power On/Off button; UID button SC217HQ: 4x Power On/Off button; UID button		
Dimensions	W x H x D: 17.25" (438mm) x 3.47" (88mm) x 26.75" (724mm) Package: 26.38" (670mm) x 11.22" (285mm) x 39.76" (1010mm)		
Rail	Quick release rail; Extendable lengths 26.5" to 36.4"		
Temperature	Operating: 5° ~ 35° C (41° to 95° F) Non-operating: -40° ~ 70° C (-40° to 158° F)		
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing		
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration			

Model	X11	MB X10	X9	Drive	PCI I/O (Per Node)	Power Supply	+5VSB	+12V	Gross Weight
SC217HD-R1620B*		●	●	24x 2.5" SAS/SATA hot-swap HDDs (12x per node)	2x FH + 1x LP	1620W Platinum Level redundant high-efficiency w/ PMBus	4A	84/100/135A	68 lbs
SC217HD-R1K28B*		●	●			1280W Platinum Level redundant high-efficiency w/ PMBus	4A	83/106.7	68 lbs
SC217HD-R1K28MB*			●		1 Micro LP	1280W Platinum Level redundant high-efficiency w/ PMBus	4A	83/106.7	68 lbs
SC217HQ-R1620B*		●	●	24x 2.5" SAS/SATA hot-swap HDDs (6x per node)	LP	1620W Platinum Level redundant high-efficiency w/ PMBus	4A	84/100/135A	68 lbs
SC217HQ-R1K62MB*			●		1 Micro LP	1620W Platinum Level redundant high-efficiency w/ PMBus	4A	84/100/135A	68 lbs
SC217HQ-R1K68B*		●	●		LP	1600W Titanium Level redundant high-efficiency w/ PMBus	4A	84/100/135A	68 lbs

Optional Kit	Model Part #	Description
Rail	MCP-290-00058-0N	Ball bearing quick release rail for short-depth rack (19"~26.6")

* For OEMs Only - Minimum quantity required.

** Hot-swappable motherboard requires optional adapter card and other components for each node, please contact your sales representative for more information on set-up configuration.

SC216(B)E2C/E1C/AC/A/AC4 24 HDDs, maximized storage chassis



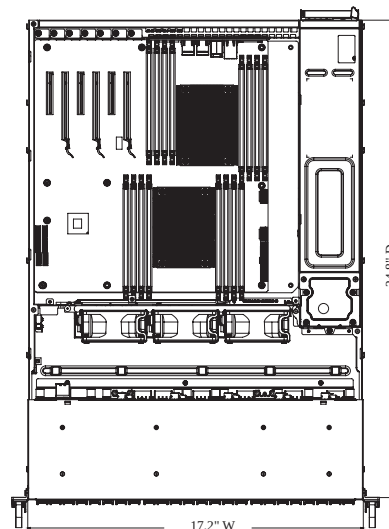
SC216BE2C/E1C/AC



WIO Rear View



LP Rear View



■ Black

Features

- ✓ SAS3 (12Gb/s) and NVMe* SSD/HDD support
- ✓ 24 hot-swap SAS/SATA HDDs in 2U; 7 low-profile or UIO/WIO solution support (4x FH, 3x LP)
- ✓ Redundant 1200W/1000W **Titanium Level**, 1280W/920W **Platinum Level** (94%+) power supplies
- ✓ Single or Dual expander solutions
- ✓ i-Pass (SAS2) or MiniSAS HD (**SAS3**) connectivity; JBOD or head unit

Specifications

Form Factor	2U rackmount chassis, support for motherboard size: 13.68" x 13", E-ATX, ATX, and WIO motherboards; support up to ATX 12" x 13" motherboards with rear 2.5" HDD option installed
CPU Support	Dual and Single Intel® Processors and AMD Processors
Expansion	WB version: 4x FH, 3x LP expansion slot; LPB version: 7x LP expansion slot
Drive Bays	24x hot swap 2.5" SAS/SATA HDD drive bays w/ full SES-II support on SAS motherboards
Power Supply	Redundant 1200W/1000W Titanium Level , 1280W/920W Platinum Level (94%+) power supplies
Cooling System	3x 8cm high-performance PWM fans; optional 5x 6cm hot-swap cooling PWM fans
Front Panel LEDs	Power LED, Hard Drive Activity LED, 2 Network Activity LEDs, System Information LED & Power Fail LED
Front Panel Buttons	Power on/off button & system reset button
Dimensions	W x H x D: 17.2" (437mm) x 3.5" (89mm) x 25.5" (648mm) Package: 26.7" x 11.4" x 34.5" Palletized Packing: 37.3" x 27" x 14.8" (for R1200/R1K28 models)
Rail	Extendable lengths: 26.5" to 36.4"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ○ Compatible ● Optimized low-power configuration ○ Compatible low-power configuration

Model	MB			PCI I/O	Drive	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9						
SC216BA-R920LPB/WB		●	●	7 LP/ 4 FH+3 LP	24x 2.5" hot-swap SAS2 drive bays, 6 iPass connectors & optional rear 2 x 2.5 HDD	Redundant 920W Platinum Level	4	83/100	57 lbs
SC216BAC-R920LPB/WB		●	●	7 LP/ 4 FH+3 LP	24x 2.5" hot-swap SAS3 drive bays & optional rear 2 x 2.5 HDD	Redundant 920W Platinum Level	4	83/100	57 lbs
SC216BE1C-R920LPB/WB		●	●	7 LP/ 4 FH+3 LP	24x 2.5" hot-swap SAS3 drive bays w/ SES-3, single expander w/ mini SAS HD connector, & optional rear 2 x 2.5 HDD	Redundant 920W Platinum Level	4	83/100	57 lbs
SC216BE2C-R920LPB/WB		●	●	7 LP/ 4 FH+3 LP	24x 2.5" hot-swap SAS3 drive bays w/ SES-3, Dual expanders w/ mini SAS HD connector, & optional rear 2 x 2.5 HDD	Redundant 920W Platinum Level	4	83/100	57 lbs
SC216BE1C4-R1K23LPB	●	●	○	7 LP	24x 2.5" hot-swap SAS3 drive bays w/ SES-3, Dual expanders w/ mini SAS HD connector, & optional rear 2 x 2.5 HDD	Redundant 1200W/1000W Titanium Level	4	100A	53 lbs

Optional Kit	Model Part #	Description
Rail	MCP-290-00058-0N	Quick-release outer rail for square hole short-depth rack (19"~26.6")
Rear HDD Kit	MCP-220-82616-0N	12G rear 2.5"x2 HDD Drive Kit w/ Status LED (for 216B/826B/417B/846X/847B/226S/826S)
Middle Fan Kit	MCP-320-82603-0N	6cm fan cooling module for 826B/216B

* Fully hot-swap **NVMe** feature is supported by SuperServer or OEM configuration only

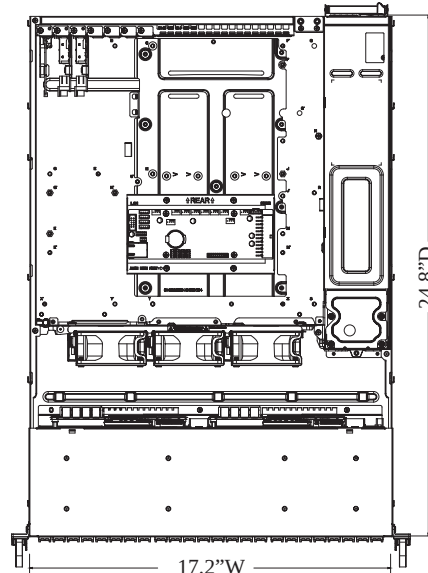
SC216BE2C/E1C-JBOD *24 HDDs, 2U Chassis JBOD solution*



SC216BE2C/E1C-R609JBOD



SC216BE2C/E1C-R609JBOD (Rear View)



Features

■ Black

- ✓ Ideal for Cloud Backup, Data Replication, or High Density Archive Storage Applications
- ✓ 2U Storage JBOD Chassis with capacity 24 x 2.5" hot-swappable HDDs bays
- ✓ SC216BE1C : Single Expander Backplane Boards support SAS3/2 or SATA3 HDDs with 12Gb/s throughput
SC216BE2C : Dual Expander Backplane Boards support SAS3/2 HDDs with 12Gb/s throughput
- ✓ 4x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements
- ✓ 1x IPMI port for Remote System Power on/off and system monitoring
- ✓ Support NTP for time synchronization & RTC battery backup
- ✓ Redundant 600W Platinum Level power supplies
- ✓ 3x 80mm high efficient hot-swappable fans for best system cooling 8. Ideal for Cloud backup, data Replication or High density Archive Storage Applications

Specifications

Form Factor	2U rackmount chassis				
Drive Bays	24x hot swap 2.5” HDD bays for JBOD solution				
Power Supply	Redundant 600W Platinum Level (94%+) power supplies				
Cooling System	3x 8cm high-performance PWM fans				
Front Panel LEDs	Power LED, Hard Drive Activity LED, 2 Network Activity LEDs, System Information LED & Power Fail LED				
Front Panel Buttons	Power on/off button & system reset button				
Dimensions	W x H x D: 17.2" (437mm) x 3.5" (89mm) x 24.8" (630mm); Package: 26.7"x 11.4" x 34.5"				
Rail	Extendable lengths: 26.5" to 36.4"				
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)				
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing				
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration					
Model	Drive	Power	+5VSB	+12V	Gross Weight
SC216BE1C-R609JBOD	24-port 2U SAS3 12Gbps single-expander backplane, support up to 24x 2.5-inch SAS3/SATA3 HDD/SSD	Redundant 600W Platinum Level	4	54.16A	61 lbs
SC216BE2C-R609JBOD	24-port 2U SAS3 12Gbps dual-expander backplane, support up to 24x 2.5-inch SAS3/SATA3 HDD/SSD (secondary expander port only connects to dual-port SAS devices, single-port SATA will not have this redundancy feature)	Redundant 600W Platinum Level	4	54.16A	61 lbs

Optional Kit	Model Part #	Description
Cable	CBL-SAST-0573	External mini SAS HD to external mini SAS HD cable 28AWG (1M)
	CBL-SAST-0690-1	MINI SAS HD,12G,EXT,2M,30AWG,RoHS
	CBL-SAST-0677	3m external Mini SAS HD to external mini SAS HD 28AWG RoHS/REACH



SC213BAC8-R1K23LPB



WIO Rear View



LP Rear View



Features

- ✓ 1200W Redundant Titanium Level (96%+); 920W/740W Redundant Platinum Level (94%+); 600W Platinum Level Digital Switching power supplies
- ✓ Up to 7 low profile or WIO solution support (4x FH, 3x LP)
- ✓ Mini-i-Pass connectivity; JBOD or headunit
- ✓ SAS 3.0 (12 Gbps) SSD/HDD support

Specifications

Form Factor	2U rackmount chassis, support for motherboard size- 15.12"x13.2", 13.68"x13"; E-ATX, ATX, and WIO motherboards
CPU support	Dual and Single Intel® processors and AMD processors
Expansion	Up to 7x LP or 4x FH, 3x LP WIO expansion slots
Drive Bays	SC213AC: 16x hot swap 2.5" SAS3 HDD drive bays, Support up to 8x 2.5-inch SAS3/SATA3 HDD/SSD and 8x SAS3/SATA3/NVMe Storage Device SC213LT: 8x 2.5" hot-swap SAS/SATA HDD drive bays 1x 5.25" drive bay, 1x slim DVD-ROM (optional), 1x slim USB/COM port tray (optional)
Power Supply	1200W Redundant Titanium Level (96%+); 920W/740W Redundant Platinum Level (94%+); 600W Platinum Level Digital Switching power supplies
Cooling System	3x 8cm high-performance PWM fans
Front Panel LEDs	Power LED, HDD activity LED, 2 network activity LEDs, system information LED and power failed LED
Front Panel Buttons	Power On/Off button, system reset button
Dimensions(WxHxD)	17.2"x3.5"x24.8"(437x89x630mm) Package: 25.8"x10.1"x37.8"
Rail	Extendable lengths: 26.5" to 36.4"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

	MB				PCI I/O	Drive	Power	+5V _{SB}	+12V
	X12	X11	X10	X9					
SC213LT-600LPB			●	●	7x LP	8x 2.5" hot-swap SAS/SATA drive bays	600W Platinum Level Digital	3	49
SC213BAC8-R1K23WB	●	●	●	●	4x FH + 3x LP	16x 2.5" hot-swap SAS/SATA drive bays	Redundant 1000W/1200W Titanium Level	4	100A
SC213BAC8-R1K23LPB	●	●	●	●	7x LP	16x 2.5" hot-swap SAS/SATA drive bays	Redundant 1000W/1200W Titanium Level	4	100A

New!

New!

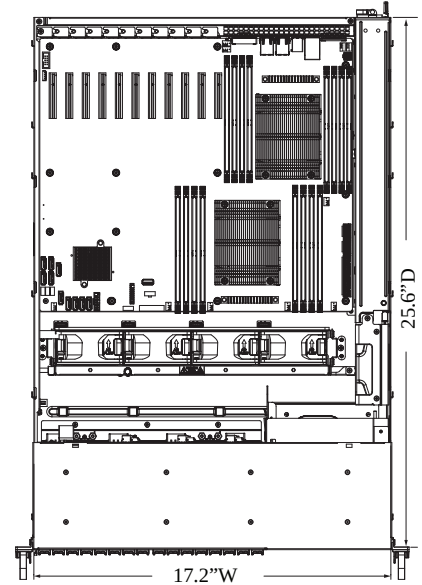
Optional Kit	Model Part #	Description
Rail	MCP-290-00058-0N	Ball bearing quick release rail for short-depth rack (19"~26.6")
Front HDD Kit	MCP-220-81506-0N	12G 2.5" Hot-swap DVD Size Drive Kit with Status LED Support



SC213XAC-R1K05LP



SC213XAC-R1K05LP (Rear View)



Features

■ Black

- ✓ Direct-attached **SAS3** backplane supporting 16x **SAS3**/SATA 2.5" Hot-swap HDDs
- ✓ Redundant 1000W **Titanium Level** (96%) power supplies
- ✓ 4x 80mm Hot-swap 7k RPM PWM fans with enhanced cooling design
- ✓ 1x Slim DVD-ROM Drive; 2x USB + 1x COM port (optional)
- ✓ 11 Slots Low-profile PCI expansion

Specifications

Form Factor	2U rackmount chassis, support maximum motherboard size: 15.2" x 13.2"
CPU Support	Dual and Single Intel® Processors and AMD processors
Expansion	11x LP expansion slots
Peripheral Drives	Optional 1x slim DVD-ROM drive bay; Optional 2x USB 2.0 ports; Optional 1x COM port tray; 1x standard 5.25" drive bay
Drive Bays	16x hot swap 2.5" SAS/SATA drive bays
Power Supply	Redundant 1000W Titanium Level (96%+) power supplies
Cooling System	4x 8cm high-performance PWM fans
Front Panel LEDs	2 Network Activity LEDs, HDD activity LED, Power Status LED, Power Fail LED, System Information LED
Front Panel Buttons	Power On/Off button & system reset button
Backplane	16-port 2U SAS3 12Gb/s direct-attached backplane, support up to 16x 2.5-inch SAS3 /SATA3 HDD/SSD
Dimensions	W x H x D: 17.2"x3.5"x25.6" (437x89x652mm) Package: 26.38"x11.22"x39.76"
Rail	Extendable lengths: 26.5" to 36.4"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration	

Model	MB			PCI I/O	Drive	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9						
New! SC213XAC-R1K05LP	●	●	●	11x LP	16x 2.5" hot-swap SAS3 (12Gb/s)/SATA	Redundant 1000W Titanium Level	4	83A	58 lbs

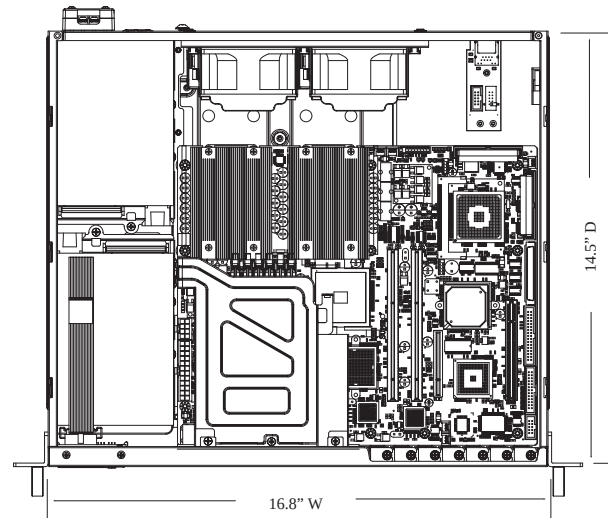
Optional Kit	Model Part #	Description
Rail	MCP-290-00058-0N	Ball bearing quick release rail for short-depth rack (19"~26.6")
Front USB	MCP-220-00007-01	Black USB/COM port tray for SC825, SC836
Front Bezel	MCP-210-82601-0B	Black Front Bezel for 826 chassis
Tray	MCP-220-00023-01	Black USB dummy tray support 1x 2.5" slim HDD for SC825, SC836
Tray	MCP-290-00036-0B	Black DVD dummy tray support 1x 2.5" HDD for SC113, SC815, SC825, SC836
HDD Kit	MCP-220-81506-0N	12G 2.5-in Hot-swap Slim DVD Size Drive Kit with Status LED
DVD-ROM / DVD-RW	DVM-PNSC-824B	Black slim IDE DVD (8x DVD, 24x CDR), Panasonic
Cable	CBL-SAST-0508-01	Internal Mini-SAS to Mini-SAS HD 50cm w/ SB, 30AWG, HF, RoHS/REACH, PBF
Cable	CBL-SAST-0568	Internal Mini-SAS HD to Mini-SAS HD 35cm, 30AWG, 12Gb/s, HF, RoHS/REACH, PBF
Cable	CBL-SAST-0591	Cross-over mini SAS HD to 4 SATA w/SB, S. 75cm. 30AWG, HF, RoHS/REACH, PBF



SC523L-505B



Rear view



Black

Features

- 2U short depth front I/O
- High-efficiency 500W Multi-output power supply w/ PMbus, 80Plus Platinum (SC523L-505B)
- Support 7x low-profile expansion slots
- Advanced thermal-control design with 2x hot-swap fans & air shroud

Specifications

Form Factor	2U chassis support for max. motherboard size - 12" x 10" ATX		
CPU support	Dual and Single Intel® processors and AMD processors		
Expansion	7 low-profile expansion slots		
Peripheral Drives	1 slim DVD-ROM drive (optional) 2x 3.5" fixed hard drive, or up to 4x 2.5" fixed hard drives with optional brackets		
Power Supply	SC523L-505B: 500W high-efficiency power supply		
Cooling System	2x 8cm hot-swap exhaust fans & air shroud		
Front Panel LEDs	Power LED, Hard Drive Activity LED, 2 Network Activity LEDs, System Information LED & Power Fail LED		
Front Panel Buttons	Power On/Off button & System Reset button		
Dimensions	W x H x D: 16.8" (426mm) x 3.5" (89mm) x 14.5" (369mm) Package: 23" x 10" x 20"		
Rail	Extendable lengths 13.1" to 33.1"		
Temperature	Operating: 5° ~ 35° C (41° to 95° F) Non-operating: -40° ~ 70° C (-40° to 158° F)		
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing		

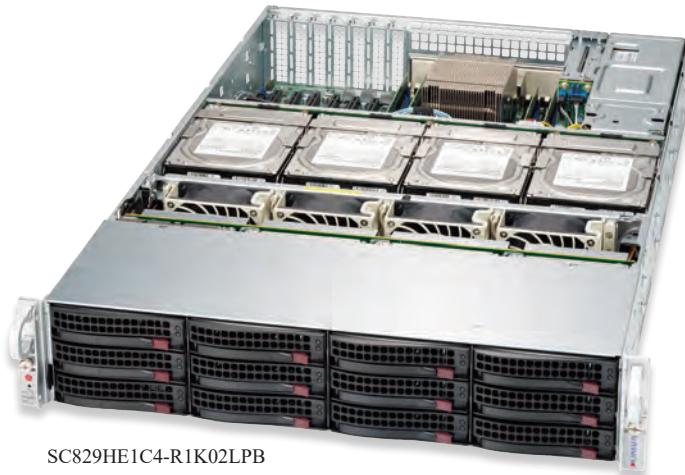
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			PCI I/O	Drive	Power	+5V _{SB}	+12V	Gross Weight
	X11	X10	X9						
SC523L-505B		●	●	7 LP	2x 3.5" fixed HDDs	500W high-efficiency	3	39	28 lbs

Optional Kit	Model Part#	Description
2.5" HDD Bracket	MCP-220-00044-0N	Dual 2.5" fixed HDD tray (MCP-220-00048-0N needed)
HDD Drive Carrier	MCP-220-00048-0N	Adapter HDD carrier to install 2.5" HDD in 3.5" HDD tray
2.5" HDD Bracket	MCP-220-00051-0N	2.5" HDD bracket for 1x 2.5" HDD

SC829H

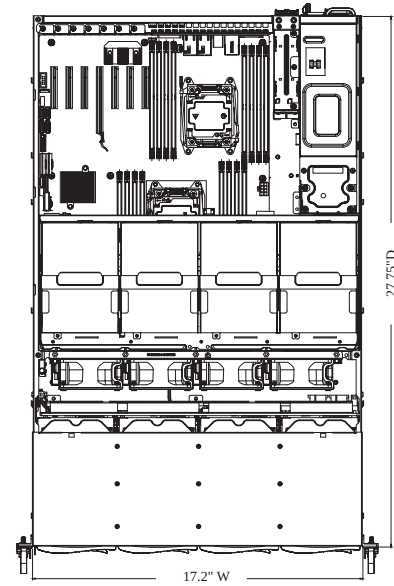
2U High Performance, Reliability Chassis



SC829HE1C4-R1K02LPB



SC829HE1C4-R1K02LPB (Rear View)



NEW!

80 PLUS TITANIUM



Features

- ✓ NVMe/SAS3 Hybrid Drive Bays Provide Ultimate Flexibility / Upgradability
- ✓ Redundant 1000W/1500W **Titanium Level** (96%+) high-efficiency supplies
- ✓ 16x 3.5" Hot-swap **SAS3**/SATA HDD Bays
- ✓ Optional cable management arm for hot-swap access
- ✓ Enhanced cooling design w/ 4x 8cm 100CFM high-performance fans
- ✓ Support 7x low-profile, Half-length I/O expansion slots

■ Black

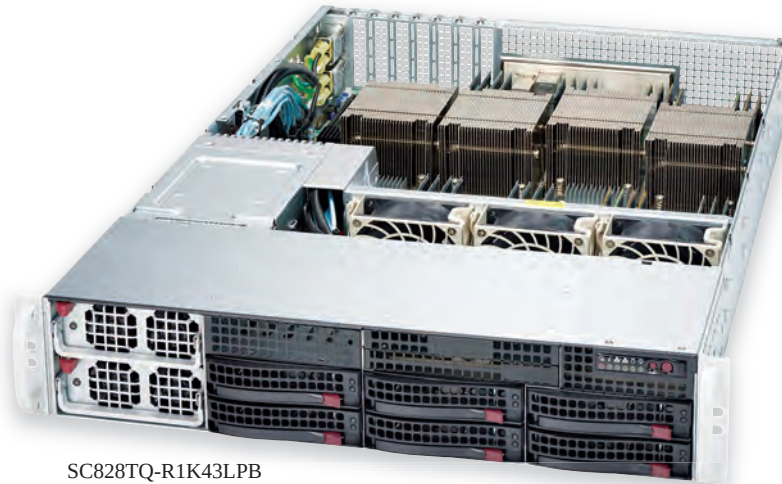
Specifications

Form Factor	2U chassis supports max. motherboard size - 13.68" x 13", E-ATX & ATX
CPU Support	Dual Intel® Processors and AMD Processors
Expansion	7 low-profile expansion slots
Drive Bays	16x 3.5" hot-swap SAS3 /SATA
Power Supply	Redundant 1000W Titanium Level (96%+) high-efficiency power supplies
Cooling System	4x 80mm high-performance fans
Front Panel LEDs	Power LED, HDD Fail LED, 2 Network Activity LEDs, System Information LED and Power Failed LED
Front Panel Buttons	Power On/Off button, system reset button
Dimensions	W x H x D: 17.2"x 3.5"x 27.75" (437 x 89 x 705mm) Package: 25.9" x 10.8" x 39.3" (657 x 275 x 998mm)
Rail	Extendable lengths: 26.5" to 36.4"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB				PCI I/O	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
	X12	X11	X10	X9							
SC829HE1C4-R1K02LPB			●	●	7x LP	16x 3.5" SAS3 /SATA	4x 80x38mm 9500rpm	Redundant 1000W Titanium Level (96%+) w/ PMBus	4A	75A	55 lbs
SC829HE1C4-R1K62LPB		●	●		7x LP	16x 3.5" SAS3 /SATA	4x 80x38mm 10.5Krpm	Redundant 1600W Titanium Level (96%+) w/ PMBus	4A	75A	55 lbs
New! SC829HAC12-R1K62LPB	●	●	●		7x LP	16x 3.5" SAS3 /SATA	4x 80x38mm 10.5Krpm	Redundant 1600W Titanium Level (96%+) w/ PMBus	N/A	133A	62 lbs

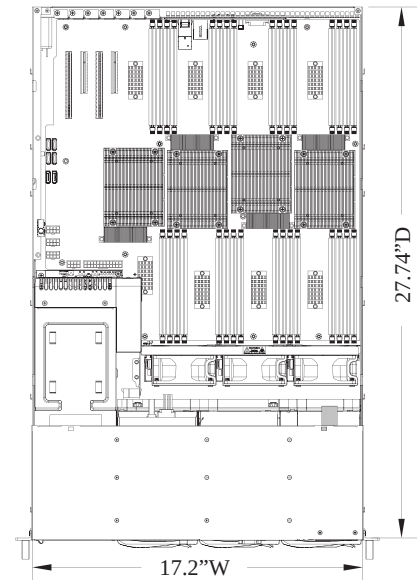
Optional Kit	Model Part #	Description
Cable Management Arm	MCP-290-00073-0N	Supermicro Cable Management Arm for 2U, 3U, and 4U chassis
Adapter Bracket	MCP-120-82503-0N	Cable arm adapter
Adaptor HDD Carrier	MCP-220-00118-0B	Black gen-5.5 tool-less hot-swap 3.5"-to-2.5" converter tray
Rear HDD Kit	MCP-220-82616-0N	12G rear 2.5"x2 HDD Drive Kit w/ Status LED (for 216B/826B/417B/846X/847B/226S/826S)



SC828TQ-R1K43LPB



Rear view



■ Black

Features

- ✓ 7x low-profile full-length or 3x full-height full length I/O expansion slots
- ✓ Redundant 1400W **Platinum Level** / **Gold Level** high-efficiency power supply

Specifications

Form Factor	2U chassis optimized for Quad-processor motherboards, max. size - 16.48"W x 14.3"H; 16.4"W x 16.79" for SC828TQ-R1400LPB/R1K43LPB		
CPU support	Quad Intel® processors and AMD processors		
Expansion	7x low-profile full-length expansion slots		
Peripheral Drives	1 optional slim DVD-ROM drive, 2x optional front USB 2.0 ports, 1x optional 3.5"/2.5" fixed HDD bay		
Drive Bays	6x 3.5" SAS / SATA Hot-swap drive trays		
Cooling System	6x 80mm 6500 RPM fans; 3x 80mm 9500 RPM fans for SC828TQ-R1400LPB/R1K43LPB		
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs, system information LED & power fail LED		
Front Panel Buttons	Power on/off button & system reset button		
Dimensions	W x H x D: 17.2" (437mm) x 3.5" (89mm) x 27.74" (705mm) Package: 26.7" x 11.4" x 34.5"		
Rail	Extendable lengths of 26.5" to 36.4"		
Temperature	Operating: 5° ~ 35° C (41° to 95° F)	Non-operating: -40° ~ 70° C (-40° to 158° F)	
Humidity	Operating: 8 ~ 90% non-condensing	Non-operating: 5 ~ 95% non-condensing	

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			PCI I/O	Drive	Cooling System	Power	+5V _{SB}	+12V	Gross Weight
	X11	X10	X9							
SC828TQ-R1K43LPB		●	●	7 LP	6x 3.5" hot-swap SAS/SATA	3x 80mm 9500 RPM fans	1400W Redundant Platinum Level Power Supply	6	100/117	52.4 lbs
SC828TQ-R1400LPB		●	●	7 LP	6x 3.5" hot-swap SAS/SATA	3x 80mm 9500 RPM fans	1400W Redundant Gold Level Power Supply	6	100/117	52.4 lbs
SC828TQ+-R1K43LPB**				7 LP	6x 3.5" hot-swap SAS/SATA	6x 80mm 6500 RPM fans	1400W Redundant Platinum Level Power Supply	6	100/117	55.4 lbs
SC828TQ+-R1400LPB				7 LP	6x 3.5" hot-swap SAS/SATA	6x 80mm 6500 RPM fans	1400W Redundant Gold Level Power Supply	6	100/117	55.4 lbs
SC828TQ+-R1K43RCB-OEM**				3 FF	6x 3.5" hot-swap SAS/SATA	6x 80mm 6500 RPM fans	1400W Redundant Platinum Level Power Supply	6	100/117	55.4 lbs

Optional Kit	Model Part #	Description
Front Tray	MCP-220-00007-01	Front USB and COM tray
Rail	MCP-290-00058-0N	Ball bearing quick release rail for short-depth rack (19"~26.6")

FF: Full-height & full-length expansion slot

LP: Low-profile expansion slot

* Full SES-II support is only on SAS motherboard

** For OEM only, minimum quantity required

SC827HD/HQ

High Performance & Double Density

2UTwin²® / 2UTwin

Versatile Modular Design supports Twin Motherboards

12x 3.5" HDDs



2UTwin² - SC827HQ-R1K62MB

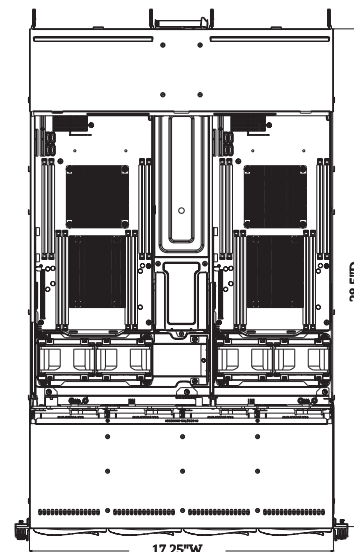
2UTwin - SC827HD-R1K28MB



SC827HQ Front View



SC827HD Front View



Features

■ Black

- ✓ Up to 4x swappable motherboard modules in 2U server
- ✓ Independent front control panel with UID and Fail-Monitor for each node
- ✓ 12x 3.5" hot-swap SAS/SATA drive bays
- ✓ 1600W **Titanium**/1280W / 1620W **Platinum Level** redundant high-efficiency power supplies

Specifications

Form Factor	2U rackmount chassis (28.5" depth) supports max. 4x Supermicro Twin motherboards
CPU Support	Up to 4x Dual Intel® Processors and AMD Processors
Expansion	SC827HQ: 1x low-profile AOC expansion slots (per node) SC827HD: 2x FH + 1x LP AOC expansion slots (per node)
Drive Bays	SC827HQ: 3x 3.5" SAS / SATA hot-swap HDDs (per node) SC827HD: 6x 3.5" SAS / SATA hot-swap HDDs (per node)
Cooling System	4x 80mm heavy duty fans with PWM fan speed control; Optional 2x 6cm rear cooling fan (SC827HD-R1K28MB)
Front Panel LEDs	4x Power status LED; UID LED; Network activity LEDs; System Overheat / Fan Fail / Power Fail LED (2x for SC827HD)
Front Panel Buttons	4x Power On/Off button; UID button (2x for SC827HD)
Dimensions	W x H x D: 17.25" (438mm) x 3.47" (88mm) x 28.5" (724mm) Package: 26.38" (670mm) x 11.22" (285mm) x 39.76" (1010mm)
Rail	Quick release rail; Extendable lengths 26.5" to 36.4"
Temperature	Operating: 5° ~ 35° C (41° to 95° F) Non-operating: -40° ~ 70° C (-40° to 158° F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration	

Model	MB			Drive	PCI I/O (per node)	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9						
SC827HD-R1620B*		●	●	12x 3.5" SAS/SATA hot-swap HDDs (6x per node)	2x FH + 1x LP	1620W Platinum Level redundant high-efficiency w/ PMBus	4A	84/100/135	68 lbs
SC827HD-R1K28B*		●	●			1280W Platinum Level redundant high-efficiency w/ PMBus	4A	83/106.7	68 lbs
SC827HD-R1K28MB*			●	1x Micro LP		1280W Platinum Level redundant high-efficiency w/ PMBus	4A	83/106.7	68 lbs
SC827HQ-R1620B*		●	●	12x 3.5" SAS/SATA hot-swap HDDs (3x per node)	1x LP	1620W Platinum Level redundant high-efficiency w/ PMBus	4A	84/100/135	68 lbs
SC827HQ-R1620MB*			●		1x Micro LP	1620W Platinum Level redundant high-efficiency w/ PMBus	4A	84/100/135	68 lbs
SC827HQ-R1K68B*		●	●	1x LP		1600W Titanium Level redundant high-efficiency w/ PMBus	4A	84/100/135	68 lbs

Optional Kit	Model Part #	Description
Rail	MCP-290-00058-0N	Ball bearing quick release rail for short-depth rack (19"~26.6")

* For OEMs Only - Minimum quantity required.

** Hot-swappable motherboard requires optional adapter card and other components for each node, please contact your sales representative for more information on set-up configuration.

SC826SE1C-JBOD

24x 3.5" HDDs, 2U Chassis JBOD solution

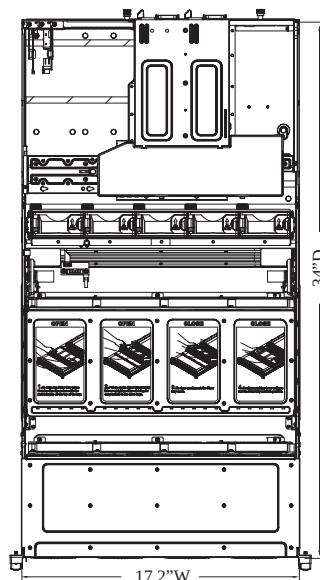
24x SAS3 (12Gb/s) Hot-Swap Drive Bays in 2U



SC826SE1C-R1K02JBOD



SC826SE1C-R1K02JBOD (Rear View)



NEW!

80 PLUS
TITANIUM

TITANIUM

12Gb/s

Black

Features

- ✓ 24x (12 front + 12 middle) 3.5" hot-swap SAS/SATA drive bays supporting SAS3/2 or SATA3 HDDs with 12Gb/s throughput
- ✓ Redundant 1000W **Titanium Level** (1+1) power supplies with PMBus
- ✓ 5x 8cm (middle) hot-swap redundant cooling fans
- ✓ E1C: Single SAS3 (12Gb/s) expander backplane
- ✓ JBOD Power Control Board with IPMI for remote monitor and power on-off; Internal Connection Cables Included
- ✓ 4x External mini SAS HD (SFF 8644) connectivity and IPMI RJ45 port

Specifications

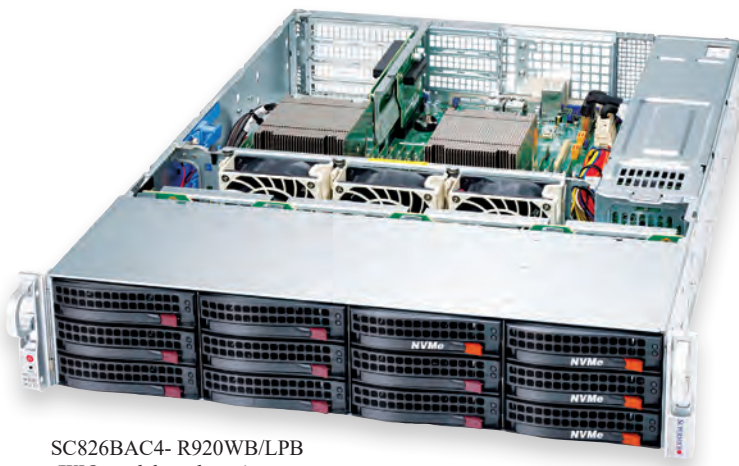
Form Factor	2U JBOD storage chassis
Drive Bays	24x 3.5" hot-swap drive bays
Power Supply	2x 1U 1000W Redundant Titanium Level Power Supplies
Cooling System	5x 8cm hot-swap redundant PWM cooling fans
Front Panel LEDs	1 Network Activity LEDs, Fan Fail/System Over Heat LED, Power Status LED, Power Fail LED, Unit Identification (UID) LED
Front Panel Buttons	Power On/Off button; Unit Identification (UID) button
Dimensions	W x H x D: 17.2" (437mm) x 3.5" (89mm) x 34" (863mm)
Backplane	Two 12 port SAS3 12G expander backplanes, each supporting up to 12x 3.5" SAS3 drives
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

Model	Drive	Power	+5VSB	+12V	Gross Weight
New! 826SE1C-R1K02JBOD	24x 3.5" hot-swap SAS3 drive bays w/ SES-3, single expander w/ mini SAS HD connector	Redundant 1000W Titanium Level with PMBus	N/A	83A	

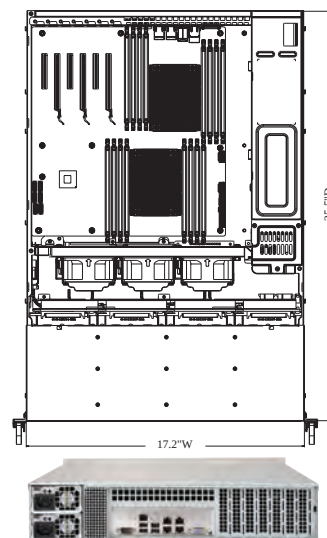
Optional Parts	Model Part #	Description
External SAS Cables	CBL-SAST-0690	2M external Mini SAS HD to external Mini SAS HD
	CBL-SAST-0677	3M external Mini SAS HD to external Mini SAS HD
Tray	MCP-220-00138-0B	Black Gen-5.5 tool-less NVMe 3.5-to-2.5 drive tray, Orange tab

SC826(B)E2C/E1C/A/AC4

2U Storage Chassis with 12 HDDs



SC826BAC4-R920WB/LPB
(WIO model as shown)



SC826B Rear View w/ optional rear HDD Kit



■ Black

Features

- ✓ SAS3 (12Gb/s) and NVMe* SSD/HDD support
- ✓ 3 high-performance fans with adjustable air shroud
- ✓ Single or Dual expander solutions
- ✓ i-Pass (SAS2) or MiniSAS HD (SAS3) connectivity

Specifications

Form Factor	2U chassis supports max. motherboard size - 13.68" x 13"; E-ATX 12" x 13" and ATX 12" x 10" motherboards; support up to ATX 12" x 13" motherboards with rear 2.5" HDD option installed
CPU Support	Dual and Single Intel® Processors and AMD Processors
Expansion	LPB: 7 low-profile expansion slots; UB/WB: 4 full-height & 3 low-profile expansion slots
Cooling System	3x 8cm hot-swap cooling PWM fans; optional 5x 6cm hot-swap cooling fans
Front Panel LEDs	Power LED, Hard Drive Activity LED, 2 Network Activity LEDs, System Information LED & Power Fail LED
Front Panel Buttons	Power on/off button & system reset button
Dimensions	W x H x D: 17.2" (437mm) x 3.5" (89mm) x 25.5" (648mm) Package: 26.7" x 11.4" x 34.5"
Rail	Extendable lengths: 26.5" to 36.4"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ○ Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB				PCI I/O	Drive	Power	+5VSB	+12V	Gross Weight
	X12	X11	X10	X9						
SC826BA-R920LPB/UB/WB			●	●	7 LP / 4 FH+3 LP	12 x 3.5" hot-swap SAS/SATA drive bays, 3 iPass connectors & optional rear 2x 2.5 HDD	Redundant 920W Platinum Level high-efficiency w/ I/C & PMBus	4	83/100	52 lbs
SC826BE1C-R920LPB/WB			●	●	7 LP / 4 FH+3 LP	12 x 3.5" hot-swap SAS3 drive bays with SES-3, single expander w/ miniSAS HD connector & optional rear 2x 2.5 HDD	Redundant 920W Platinum Level high-efficiency w/ I/C & PMBus	4	83/100	52 lbs
SC826BE2C-R920LPB/WB			●	●	7 LP / 4 FH+3 LP	12 x 3.5" hot-swap SAS3 drive bays with SES-3, Dual expander w/ miniSAS HD connector & optional rear 2x 2.5 HDD	Redundant 920W Platinum Level high-efficiency w/ I/C & PMBus	4	83/100	52 lbs
SC826BAC4-R920LPB/WB			●	●	7 LP / 4 FH+3 LP	8x SAS3 + 4x NVMe*/SAS3 Hybrid 3.5" HDD, optional rear 2 x 2.5 HDD	Redundant 920W Platinum Level high-efficiency w/ I/C & PMBus	4	83/100	52 lbs
SC826BAC4-R1K23WB		●	●	●	4 FH+3 LP	8x SAS3 + 4x NVMe*/SAS3 Hybrid 3.5" HDD, optional rear 2 x 2.5 HDD	Redundant 1200W/1000W Titanium Level Power Supply w/ PMBus	4	100A	53 lbs
New! SC826BAC12-R1K23LPB	●	●	●		7 LP	8x SAS3 + 4x NVMe*/SAS3 Hybrid 3.5" HDD, optional rear 2 x 2.5 HDD	Redundant 1200W/1000W Titanium Level high-efficiency w/ I/C & PMBus	4	100A	55 lbs
New! SC826BAC12-R802LPB	●	○	●		7 LP	8x SAS3 + 4x NVMe*/SAS3 Hybrid 3.5" HDD, optional rear 2 x 2.5 HDD	Redundant 800W Titanium Level high-efficiency w/ I/C & PMBus	4	66A	55 lbs
SC826BAC4-R1K23LPB		●	●	●	7 LP	8x SAS3 + 4x NVMe*/SAS3 Hybrid 3.5" HDD, optional rear 2 x 2.5 HDD	Redundant 1200W/1000W Titanium Level Power Supply w/ PMBus	4	100A	53 lbs

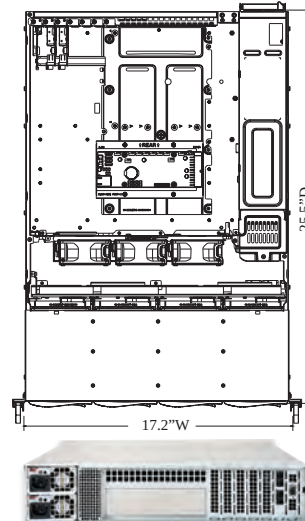
Optional Kit	Model Part #	Description
Rail	MCP-290-00058-0N	Quick-release outer rail for square hole short-depth rack (19"-26.6")
Rear HDD Kit	MCP-220-82616-0N	12G rear 2.5"x2 HDD Drive Kit w/ Status LED (for 216B/826B/417B/846X/847B/226S/826S)
Middle Fan Kit	MCP-320-82603-0N	6cm fan cooling module for 826B/216B
NVMe HDD Tray	MCP-220-00116-0B	Black 3.5" to 2.5" NVMe drive tray with orange tab
NVMe HDD Tray	MCP-220-00138-0B	Black 3.5" to 2.5" tool-less NVMe drive tray with orange tab
Adaptor HDD Carrier	MCP-220-00118-0B	Black gen-5.5 tool-less 3.5-to-2.5 converter drive tray, RoHS/REACH

* Fully hot-swap NVMe feature is supported by SuperServer or OEM configuration only

SC826BE2C/E1C-JBOD *12x 3.5" HDDs, 2U Chassis JBOD solution*



SC826BE1C/E2C-R609JBOD



SC826BE1C/E2C-R609JBOD (Rear View)



Features

■ Black

- ✓ Ideal for Cloud Backup, Data Replication, or High Density Archive Storage Applications
- ✓ 2U Storage JBOD Chassis with capacity 12x 3.5" hot-swappable HDDs bays
- ✓ **826BE1C**: Single Expander Backplane Boards support SAS3/2 or SATA3 HDDs with 12Gb/s throughput
- ✓ **826BE2C**: Dual Expander Backplane Boards support SAS3/2 HDDs with 12Gb/s throughput
- ✓ 8x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements
- ✓ 1x IPMI port for Remote System Power on/off and system monitoring
- ✓ Support NTP for time synchronization & RTC battery backup
- ✓ Redundant 600W (1+1) 94% efficient Platinum Level power supplies
- ✓ 3x 80mm high efficient hot-swappable fans for best system cooling

Specifications

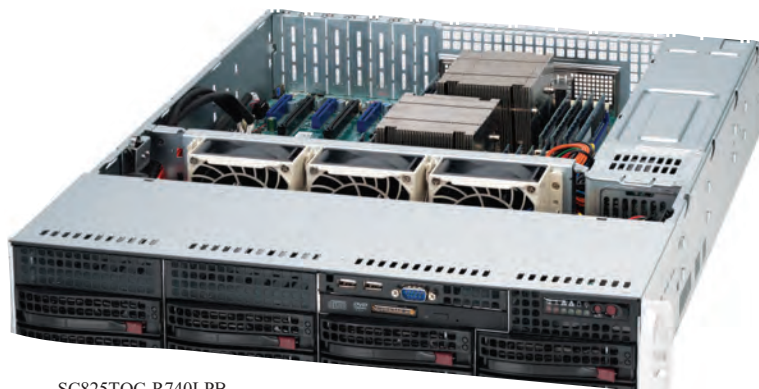
Form Factor	2U rackmount chassis
Drive Bays	12x hot swap 3.5" HDD bays for JBOD solution
Power Supply	Redundant 600W Platinum Level (94%+) power supplies
Cooling System	3x 8cm high-performance PWM fans
Front Panel LEDs	Power LED, Hard Drive Activity LED, 2 Network Activity LEDs, System Information LED & Power Fail LED
Front Panel Buttons	Power on/off button & system reset button
Dimensions	W x H x D: 17.2" (437mm) x 3.5" (89mm) x 25.5" (647mm); Package: 26.7" x 11.4" x 34.5"
Rail	Extendable lengths: 26.5" to 36.4"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

Model	Drive	Power	+5VSB	+12V	Gross Weight
New! SC826BE1C-R609JBOD	12-port 2U SAS3 12Gbps single-expander backplane, support up to 12x 3.5-inch SAS3/SATA3 HDD/SSD	Redundant 600W Platinum Level with I ² C & PMBus	4A	61.7A	60 lbs
New! SC826BE2C-R609JBOD	12-port 2U SAS3 12Gbps dual-expander backplane, support up to 12x 3.5-inch SAS3/SATA3 HDD/SSD (secondary expander port only connects to dual-port SAS devices, single-port SATA will not have this redundancy feature)	Redundant 600W Platinum Level with I ² C & PMBus	4	51.16A	60 lbs

Optional Kit	Model Part #	Description
Cable	CBL-SAST-0573	External mini SAS HD to external mini SAS HD cable 28AWG (1M)
	CBL-SAST-0690-1	MINI SAS HD,12G,EXT,2M,30AWG,RoHS
	CBL-SAST-0677	External Mini SAS HD to external mini SAS HD.28AWG,RoHS/REACH (3M)
Converter Tray	MCP-220-00118-0B	Black gen-5.5 tool-less hot-swap 3.5"-to-2.5" converter tray

SC825(B)TQC/TQ

2U Chassis with Flexible Expansion Slots



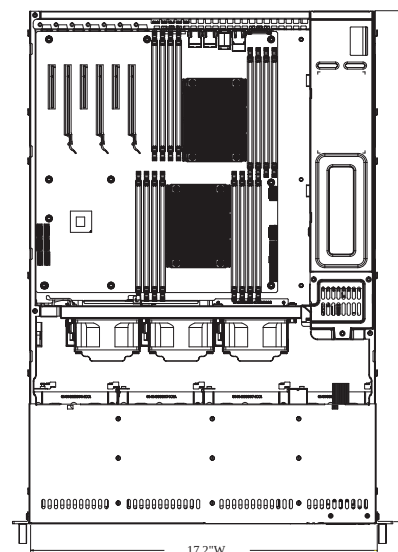
SC825TQC-R740LPB



SC825LTP rear view



SC825WIO rear view



Features

■ Black

- ✓ 1000W redundant Titanium Level (96%+) / 740W redundant Platinum Level (94%+) / 60W Platinum Level Digital / 720W redundant Gold Level (92%+) power supplies
- ✓ SAS3 (12Gbps) SSD/HDD support (SC825TQC-R740LPB / SC825TQC-R740WB / SC825TQC-R1K03LPB / SC825TQC-R1K03WB)
- ✓ Enhanced cooling design with 3x hot-swap PWM fans (7000RPM) & adjustable air shroud

Specifications

Form Factor	2U chassis support for motherboard size - 13.68" x 13"; E-ATX 12" x 13", and ATX 12" x 10"
CPU Support	Dual and Single Intel® processors and AMD processors
Expansion	-LP: 7x low-profile expansion slots; -W: 4x full-height full-length & 3x low-profile expansion slots
Peripheral Drives	Optional 1x slim DVD-ROM drive, optional 2 USB & 1x COM port tray
Drive Bay	8x 3.5" hot-swap SAS3/SATA drive bays; 2x 3.5"/2.5" internal SAS/SATA drive bays
Cooling System	3x 8cm (7000rpm) hot-swap PWM cooling fans
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs, system information LED & power fail LED
Front Panel Buttons	Power on/off button & system reset button
Dimensions	W x H x D: 17.2"(437mm) x 3.5"(89mm) x 25.5" (648mm) Package: 26.7"(679mm) x 11.4"(290mm) x 34.5"(877mm)
Rail	Extendable lengths: 26.5" to 36.4"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

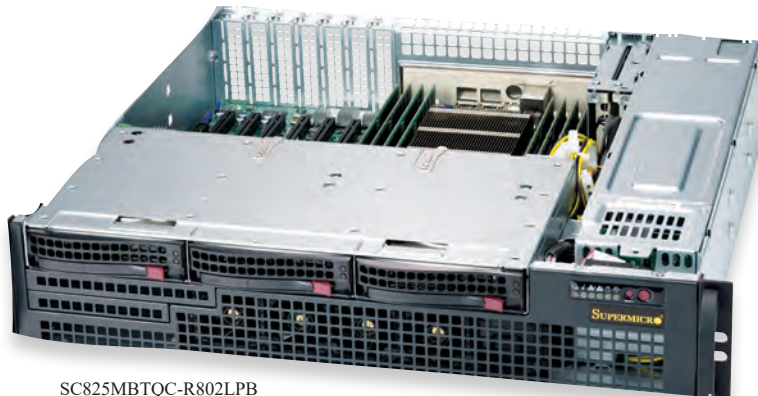
● Optimized ○ Compatible

Model	MB			PCI I/O	Drive	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9						
SC825TQ-R720UB			●	4x FH + 3x LP	8x SAS/SATA	720W redundant Gold Level w/ PMBus	3	59	52 lbs
SC825TQ-563LPB			●	7x LP	8x SAS/SATA	560W Gold Level w/ PMBus	3	49*	52 lbs
SC825TQ-600LPB		●	●	7x LP	8x SAS/SATA	600W Digital Platinum Level w/ PMBus	3	49	52 lbs
SC825TQ-600WB		●	●	4x FH + 3x LP	8x SAS/SATA	600W Digital Platinum Level w/ PMBus	3	49	52 lbs
SC825TQC-R802LPB		●	●	7x LP	8x SAS3(12Gb/s)/SATA	800W redundant Titanium Level w/ PMBus	4	66A	52 lbs
SC825TQC-R802WB		●	●	4x FH + 3x LP	8x SAS3(12Gb/s)/SATA	800W redundant Titanium Level w/ PMBus	4	66A	52 lbs
SC825TQC-R1K03LPB		●	●	7x LP	8x SAS3(12Gb/s)/SATA	1000W redundant Platinum Level w/ PMBus	4	83*	52 lbs
SC825TQC-R1K03WB		●	●	4x FH + 3x LP	8x SAS3(12Gb/s)/SATA	1000W redundant Platinum Level w/ PMBus	4	83*	52 lbs
SC825BTQC-R609WB	●	●	●	4x FH + 3x LP	8x SAS3(12Gb/s)/SATA	600W redundant Platinum Level w/ PMBus	4	54.16A	52 lbs
SC825BTQC-R1K23LP	●	●	●	7x LP	8x SAS3(12Gb/s)/SATA	1200W/1000W redundant Titanium Level w/ PMBus	4	100A	52 lbs

Optional Kit	Model Part #	Description
Short Rail	MCP-290-00058-0N	Ball bearing quick release rail for short-depth rack (19"~26.6")
Front HDD Kit	MCP-220-81506-0N	12G 2.5" Hot-swap DVD Size Drive Kit with Status LED Support
Rear Drive Kit	MCP-220-82616-0N	

* 46Amp @ 100V-180V; 49Amp @ 180V-240V

** 66.7Amp @ 100V-180V; 83Amp @ 180V-240V



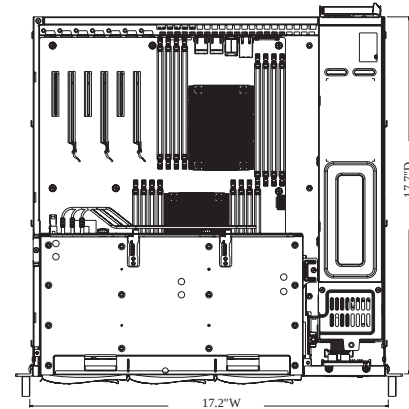
SC825MBTQC-R802LPB



SC825MBTQC-R802LPB rear view



SC825MBTQC-R802WB rear view



Features

■ Black

- ✓ 800W redundant **Titanium Level** (96%+) redundant high efficiency power supplies
- ✓ Extra compact size (17.7" short depth) and chassis with full functionality
- ✓ Advanced thermal-control design with 4x high performance PWM fans with air shroud

Specifications

Form Factor	2U chassis support motherboard size - 13.68" x 13"; E-ATX 12" x 13" and ATX 12" x 10" motherboards
CPU Support	Dual and Single Intel® processors and AMD processors
Expansion	- LPB: 7 low-profile expansion slots - WB: 4 full-height & 3 low-profile
Peripheral Drives	1x slim DVD-ROM drive (optional), 1x COM & 2x USB ports module
Drive Bay	3x 3.5" hot-swap SAS(3)/SATA drive bays (optional) with optional 2x 2.5" hot-swap SAS(3)/SATA drive bays
Power Supply	SC825MBTQC-R802LPB/WB: Redundant 800W Titanium Level power supplies
Cooling System	Up to 5x 4cm high performance counter-rotating PWM fans (4 as default, 1 as optional)
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs, system information LED & power fail LED
Front Panel Buttons	Power on/off button & system reset button
Dimensions	W x H x D: 17.2" (437mm) x 3.5" (89mm) x 17.7" (450mm); Package: 23.3"x 11.0" x 32.1"
Rail	Extendable lengths: 26.5" to 36.4"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ● Compatible

Model	X11	MB X10	X9	PCI I/O	Drive	Power	+5VSB	+12V	Gross Weight
SC825MBTQC-R802LPB	●	●	●	7x LP	3x SAS3(12Gb/s)/SATA	Redundant 800W Titanium Level	4	66	35 lbs
SC825MBTQC-R802WB	●	●	●	4x FH + 3x LP	3x SAS3(12Gb/s)/SATA	Redundant 800W Titanium Level	4	66	35 lbs

Optional Kit	Model Part #	Description
Tray	MCP-220-83601-0B MCP-220-00023-01	Floppy dummy tray supports 1x slim 2.5" fixed HDD Black USB dummy tray supports 1x 2.5" slim HDD
Short Rail	MCP-290-00058-0N	Ball bearing quick release rail for short-depth rack (19"~26.6")
Fan Kit	FAN-015GL4	40x56mm PWM cooling
Front HDD Kit	MCP-220-81506-0N MCP-220-81504-0N	12G 2.5" Hot-swap DVD Size Drive Kit with Status LED Support 12G 2.5" Hot-swap Floppy Size Drive Kit with Status LED Support
Rear HDD Kit	MCP-220-82616-0N	12G 2.5" x2 Drive Kit w/ Status LED



SC823MTQC-R802LPB



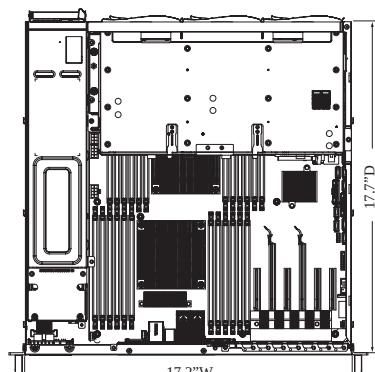
SC823MTQC-R802WB



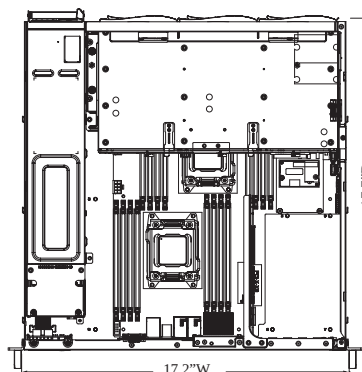
SC823MTQC-R802LPB (Rear View)



SC823MTQC-R802WB (Rear View)



SC823MTQC-R802LPB



SC823MTQC-R802WB

Features

■ Black

- ✓ Redundant 800W **Titanium Level** (96%+) / 700W high efficiency power supply
- ✓ Advanced airflow and thermal-control design
- ✓ Support **SAS3** (12Gb/s) / SATA HDD (SC823MTQC-R802LPB/WB)

Specifications

Form Factor	2U chassis support motherboard size - 13.68" x 13", E-ATX 12" x 13", and ATX 12" x 10"		
CPU Support	Dual and Single Intel® Processors and AMD Processors		
Expansion	-LPB: 7 low-profile expansion slots; -WB: 4 full-height & 3 low-profile expansion slots		
Peripheral Drives	1x slim DVD-ROM drive, 1x COM & 2x USB ports module - Optional on SC823MTQC-R802LPB - Not available on SC823MTQC-R802WB		
Drive Bays	3x 3.5" hot-swap SAS/SATA drive bays		
Power Supply	Redundant (1+1) 800W Titanium Level high-efficiency power supply w/I²C & fan speed control		
Cooling System	Up to 6x 4cm high performance counter-rotating PWM fans (4 as default, 2 as optional)		
Front Panel LEDs	Power LED, Hard Drive Activity LED, 2 Network Activity LEDs, System Information LED & Power Fail LED		
Front Panel Buttons	Power On/Off button & System Reset button		
Dimensions	W x H x D: 17.2"(437mm) x 3.5"(89mm) x 17.7"(450mm) Package: 23.8" x 10" x 29.5"		
Rail	Extendable lengths of 26.5" to 36.4"		
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)		
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing		
● Optimized 🔴 Compatible	● Optimized low-power configuration 🔴 Compatible low-power configuration		

Model	MB X11 X10 X9	PCI I/O	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
SC823MTQC-R802LPB	● ● ●	7x LP	3x SAS3(12Gb/s)/SATA		Redundant 800W Titanium Level	4	66	35 lbs
SC823MTQC-R802WB	● ● ●	4x FH+3x LP	3x SAS3(12Gb/s)/SATA		Redundant 800W Titanium Level	4	66	35 lbs

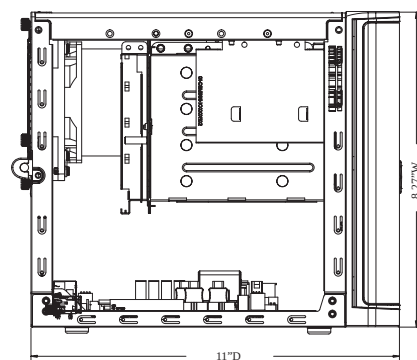
Optional Kit	Model Part #	Description
Short Rail	MCP-290-00058-0N	Ball bearing quick release short rail, from 19"~26.6"
Front HDD Kit	MCP-290-81506-0N	12G 2.5" Hot-swap slim DVD size drive kit with Status LED
DVD Bracket	MCP-290-82301-0B	DVD and USB holder for SC823M

SC721TQ

Compact Mini-Tower with 4x Hot-swap HDDs



SC721TQ Front View



SC721TQ Side/Rear View

Features

■ Black

- ✓ Compact Mini-Tower: D 11" x W 8.27" x H 9.45"
- ✓ Support wide range of Mini-ITX (6.75" x 6.75") motherboards
- ✓ 4x 3.5" Hot-Swap SATA3/SAS2 drive bays, 2x internal 2.5" SATA drive bays, and 1 slim DVD-ROM drive bay
- ✓ 2x USB3.1 Gen1 ports(front), chassis intrusion switch, Kensington Lock supported
- ✓ 1 low-profile expansion slot for add-on cards
- ✓ 350W Gold Level High-efficiency power supply

Specifications

Form Factor	Mini-Tower chassis for motherboard support size Mini-ITX 6.75" x 6.75"
CPU Support	Single Intel® Processors and AMD Processors
Expansion	Without Universal I/O (UIO) Card: 1 low-profile expansion slot(s)
Peripheral Drives	1x slim DVD-ROM drive bay
Drive Bays	4x 3.5" hot-swap SAS/SATA 2x 2.5" fixed drive bay
Power Supply	1x 350W 1U multi-output power supply
Cooling System	1x 12cm rear exhaust fan
Front Panel LEDs	1 Network Activity LEDs, Fan Fail/System Over Heat LED, HDD activity LED, Power Status LED
Front Panel Buttons	Power On/Off button; System Reset Button
Backplane	4x 3.5" SAS2/SATA3 backplane w/SES-II
Dimensions	W x H x D: 8.27" (210.06mm) x 9.45" (240.03mm) x 11" (279.4mm) Package: 12.4" (315mm) x 13.78" (350mm) x 16.14" (410mm)
Temperature	Operating: 0°C - 40°C (32°F - 104°F) Non-operating: -20°C - 60°C (-4°F - 140°F)
Humidity	Operating: 10% - 85% (non-condensing) Non-operating: 10% - 95% (non-condensing)

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			PCI I/O	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9							
New! SC721TQ-350B	●	●	●	1x LP	4x 3.5" SAS/SATA; 2x 2.5" fixed	1x 12cm rear exhaust fan	350W Multi-output Power Supply	2	28A	15 lbs
New! SC721TQ-350B2	●	●	●	1x LP	4x 3.5" SAS/SATA; 2x 2.5" fixed	1x 12cm rear exhaust fan	350W Multi-output Power Supply	2	28A	15 lbs

Optional Kit	PCI I/O	Description
Adaptor HDD carrier	MCP-220-00043-0N	Adaptor HDD carrier to install 2.5" HDD in 3.5" HDD tray
DVD-ROM / DVD-RW	DVM-TEAC-DVD-SBT3	Black slim SATA DVD (8x DVD, 24x CDR), TEAC
SATA DVD Kit	MCP-220-81502-0N	Slim SATA DVD kit
Cable	CBL-PWEX-0645	Big 4 pin male to big 4 pin female, power extension 15cm, 20AWG
Adaptor HDD carrier	MCP-220-00118-0B	Black gen-5.5 tool-less 3.5-to-2.5 converter drive tray,RoHS/REACH

SC836(B)E2C/E1C/A

Versatile Storage 3U Chassis

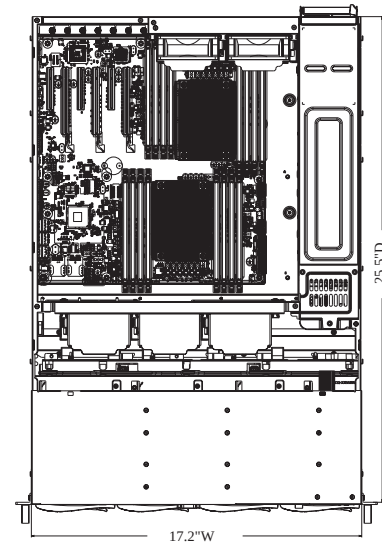
SAS 3.0 (12Gb/s), 100% Cooling Redundancy, Highly Reliable, Available and Scalable Storage



SC836E1C/R1K03B



SC836B Rear View w/ optional rear HDD Kit



Features

- ✓ BE2C/BE1C: 12Gb/s **SAS3**/SATA3 dual (8-port) & single(4-port) mini-SAS HD expander backplanes support HBA/RAID and external cascading to JBOD
- ✓ BA: Direct attached SAS2/SATA3 backplane through SATA and iPass cables
- ✓ Redundant 1200W/1000W **Titanium Level** (96%+), 920W **Platinum Level** (94%+) high-efficiency power supplies w/ PMBus
- ✓ 100% cooling redundancy, 5 hot-plug redundant cooling fans and adjustable air shroud
- ✓ Optional **12G** rear 2.5"x2, slim DVD and slim floppy drive kits to expand storage capacity
- ✓ Optional **rear NVMe** x2 drive kits for all 836B models

■ Black

Specifications

Form Factor	3U chassis support for max. motherboard size - 13.68" x 13", E-ATX and ATX
CPU Support	Dual and Single Intel® Processors and AMD Processors
Expansion	7 full-height & full-length expansion slots
Cooling System	3x 8cm hot-swap cooling fans, 2x 8cm exhaust fans & air shroud
Front Panel LEDs	Power LED, Hard Drive Activity LED, 2 Network Activity LEDs, System Information LED & Power Fail LED
Front Panel Buttons	Power on/off button & system reset button
Dimensions	W x H x D: 17.2"(437mm) x 5.2"(132mm) x 25.5" (648mm); Package: 26.6" x 13" x 33.9"; Palletized Packing: 37.3" x 16.8" x 27"
Rail	Extendable lengths 26.5" to 36.4"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration	

Model	MB			PCI I/O	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9							
 SC836BE1C-R1K23B	●	●	●	7 FH/FL	16x 3.5" hot-swap SAS/SATA drive bays with SES-3, Single SAS3 expander w/ Mini-SAS HD connectors; optional 2x 2.5"HDD	3x 10.5rpm fans 2x 6700rpm fans	Redundant 1200W Titanium Level high-efficiency	4	83/100	75lbs
SC836BE1C-R1K03B	●	●	●	7 FH/FL	16x 3.5" hot-swap SAS/SATA drive bays with SES-3, Single SAS3 expander w/ Mini-SAS HD connectors; optional 2x 2.5"HDD	3x 7000rpm fans 2x 6700rpm fans	Redundant 1000W Titanium Level high-efficiency	4	83/100	75 lbs
SC836BE2C-R1K03B	●	●	●	7 FH/FL	16x 3.5" hot-swap SAS/SATA drive bays with SES-3, Dual SAS3 expander w/ Mini-SAS HD connectors; optional 2x 2.5"HDD	3x 7000rpm fans 2x 6700rpm fans	Redundant 1000W Titanium Level high-efficiency	4	83/100	75lbs
SC836BA-R920B		●	●	7 FH/FL	16x 3.5" hot-swap SAS/SATA drive bays with SES-II, 4 iPass connectors; optional 2x 2.5"HDD	3x 7000rpm fans 2x 6700rpm fans	Redundant 920W Platinum Level high-efficiency	4	83/100	75 lbs
Optional Kit		Model Part #		Description						
Rail		MCP-290-00058-0N		Quick-release outer rail for square hole short-depth rack (19"-26.6")						
HDD Kit		MCP-220-83605-0N		Optional rear 2.5" HDD kit for 836BA/E16/E26 only						
		MCP-220-83608-0N		12G 2.5"x2 Drive Kit w/ Status LED Support (835B/836B/946S)						
		MCP-220-81504-0N		12G 2.5" Hot-swap Slim Floppy Size Drive Kit w/Status LED Support						
		MCP-220-81506-0N		12G 2.5" Hot-swap DVD Floppy Size Drive Kit w/Status LED Support						
Tray		MCP-220-00118-0B		Tool-less 3.5"-to-2.5" converter drive tray						

SC836BE2C/E1C-JBOD

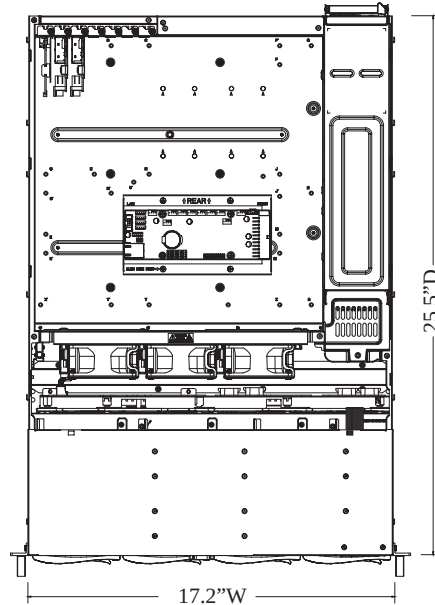
3U Chassis for JBOD solution



SC836BE2C/E1C-R609JBOD



SC836BE2C/E1C-R609JBOD (Rear View)



Features

■ Black

- ✓ Cloud Backup, Data Replication, or High Density Archive Storage Applications
- ✓ 3U Storage JBOD Chassis with capacity 16 x 3.5" hot-swappable HDDs bays
- ✓ **836BE2C**: 16-port 3U SAS3 12Gbps dual-expander backplane, support up to 16x 3.5-inch SAS3/SATA3 HDD/SSD
- ✓ **836BE1C**: 16-port 3U SAS3 12Gbps single-expander backplane, support up to 16x 3.5-inch SAS3/SATA3 HDD/SSD
- ✓ 8 x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements
- ✓ 1x IPMI port for Remote System Power on/off and system monitoring
- ✓ Support NTP for time synchronization & RTC battery backup
- ✓ Redundant 600W (1+1) 94% Platinum Level power supplies
- ✓ 5 hot-plug redundant cooling fans 8. Ideal for Cloud backup, data Replication or High density Archive Storage Applications

Specifications

Form Factor	3U rackmount chassis
Drive Bays	16x hot swap 3.5" hot-swap HDD bays for JBOD solution
Power Supply	Redundant 600W Platinum Level power supplies
Cooling System	3x 8cm hot-swap redundant PWM cooling fans 2x 8cm hot-swap exhaust fans & air shroud
Front Panel LEDs	Power LED, Hard Drive Activity LED, 2 Network Activity LEDs, System Information LED & Power Fail LED
Front Panel Buttons	Power on/off button & system reset button
Dimensions	W x H x D: 17.2" (437mm) x 5.2" (89mm) x 25.5" (630mm); Package: 26.7"x 11.4" x 39.9"
Rail	Extendable lengths: 26.5" to 36.4"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

Model	Drives / Back Plane	Power	+5VSB	+12V	Gross Weight
New! SC836BE1C-R609JBOD	16-port 3U SAS3 12Gbps single-expander backplane, support up to 16x 3.5-inch SAS3/SATA3 HDD/SSD	Redundant 600W platinum Level	4A	83A	80 lbs
New! SC836BE2C-R609JBOD	16-port 3U SAS3 12Gbps dual-expander backplane, support up to 16x 3.5-inch SAS3/SATA3 HDD/SSD (secondary expander port only connects to dual-port SAS devices, single-port SATA will not have this redundancy feature)	Redundant 600W platinum Level	4A	83A	80 lbs

Optional Kit	Model Part #	Description
Cable	CBL-SAST-0573	External mini SAS HD to external mini SAS HD cable 28AWG (1M)
	CBL-SAST-0690-1	MINI SAS HD,12G,EXT,2M,30AWG,RoHS
	CBL-SAST-0677	External mini SAS HD to external mini SAS HD cable 28AWG (3M)
HDD Kit	MCP-220-83608-0N	12G 2.5"x2 Drive Kit w/ Status LED Support (835B/836B/946S)
	MCP-220-81504-0N	12G 2.5" Hot-swap Slim Floppy Size Drive Kit w/Status LED Support
	MCP-220-81506-0N	12G 2.5" Hot-swap DVD Floppy Size Drive Kit w/Status LED Support
Converter Tray	MCP-220-00118-0B	Black gen-5.5 tool-less hot-swap 3.5"-to-2.5" converter tray

SC835TQ(C)

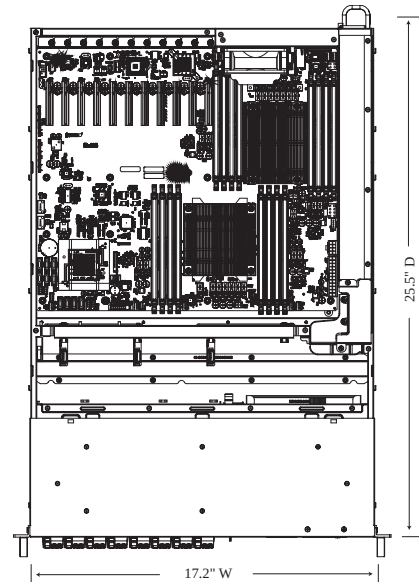
3U Chassis with BBP® Support & 11 PCI Slots



SC835XTQ-R982B



SC835XTQ-R982B rear view
(11 PCI slots)



■ Black

Features

- ✓ Support up to 7x PCI-E 3.0 expansion slots
- ✓ 1000W/980W/920W/800W Redundant **Titanium/Platinum Level** w/ PMBus
- ✓ 8 hot-swap **SAS3/SAS2/SATA3** drives; optional **12G** hot-swap slim DVD or rear 2.5"x2 drive kits
- ✓ 100% cooling redundancy, 5 hot-swap redundant cooling fans, and adjustable air shroud

Specifications

Form Factor	3U chassis support for motherboard size - 13.68"x13", E-ATX and ATX; 15.2"x13.2" (for SC835XTQ)
CPU Support	Dual and Single Intel® Processors and AMD Processors
Expansion	7 or 11 full-height & full-length expansion slots
Peripheral Drives	1x Slim DVD-ROM Drive (optional)
Drive Bays	8x 3.5" hot-swap SAS3/SAS2/SATA3 drive bays & 2x 5.25" drive bays; SC835B: optional 2x additional 2.5" hot-swap SAS/SATA drive bays
Cooling System	4~6x 8cm hot-swap cooling fans & adjustable air-shroud
Power Supply	SC835: 800W/1000W Titanium Level power supplies
Front Panel LEDs	Power LED, network activity LED, system overheat LED & power fail LED
Front Panel Buttons	Power on/off button, system reset button & mute button
Dimensions	W x H x D: 17.2" (437mm) x 5.2" (132mm) x 25.5" (648mm); Package: 26.6" x 13" x 33.9"
Rail	Extendable lengths of 26.5" to 36.4"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

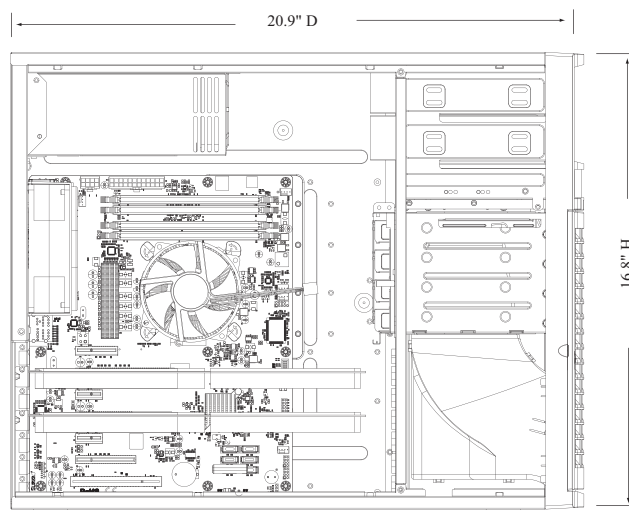
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9						
SC835TQC-R802B	●	●	●	8 SAS3/SATA3	5x 8cm fans	800W Redundant Titanium Level w/ PMBus	4	66	75 lbs
SC835TQC-R1K03B	●	●	●	8 SAS3/SATA3	5x 8cm fans	1000W Redundant Titanium Level w/ PMBus	4	66	75 lbs

Optional Kit	Model Part #	Description
HDD Kit	MCP-220-81506-0N MCP-220-83608-0N MCP-220-83609-0N	12G 2.5" Hot-swap DVD Floppy Size Drive Kit w/Status LED Support 12G Rear 2.5" x2 hot-swap HDD kit w/Status LED for SC836B/SC835B Rear NVMe 2.5" x2 hot-swap drive kit for SC836B/SC835B
Converter Tray	MCP-220-00118-0B	Black gen-5.5 tool-less hot-swap 3.5"-to-2.5" converter tray
Rear HDD Kit	MCP-220-82616-0N	12G rear 2.5"x2 HDD Drive Kit w/ Status LED (for 835B/836B/946S)
Rail	MCP-290-00058-0N	Ball bearing quick release rail for short-depth rack (19"x26.6")
LCD Kit	MCP-220-00095-0N	5.25" USB LCD Kit



SC733TQ-668B



■ Black

Features

- ✓ 4x 3.5" SAS/SATA Backplane for Hot-Swappable Drives (Support SGPIO)
- ✓ Front HDD Door Lock
- ✓ Front I/O Ports: 2x USB 2.0
- ✓ 1x 12cm Rear (4000 rpm) PWM Fan & 1x 9cm Front (4200 rpm) PWM Fan
- ✓ Mid-Tower Chassis Supports max. Motherboard, Sizes – E-ATX 12" x 13"/ATX/Micro ATX
- ✓ 668W Platinum Level Certified High-Efficiency Power Supply
- ✓ 2x 5.25" External HDD Drive Bays & 4x 3.5" HDD Drive Bays

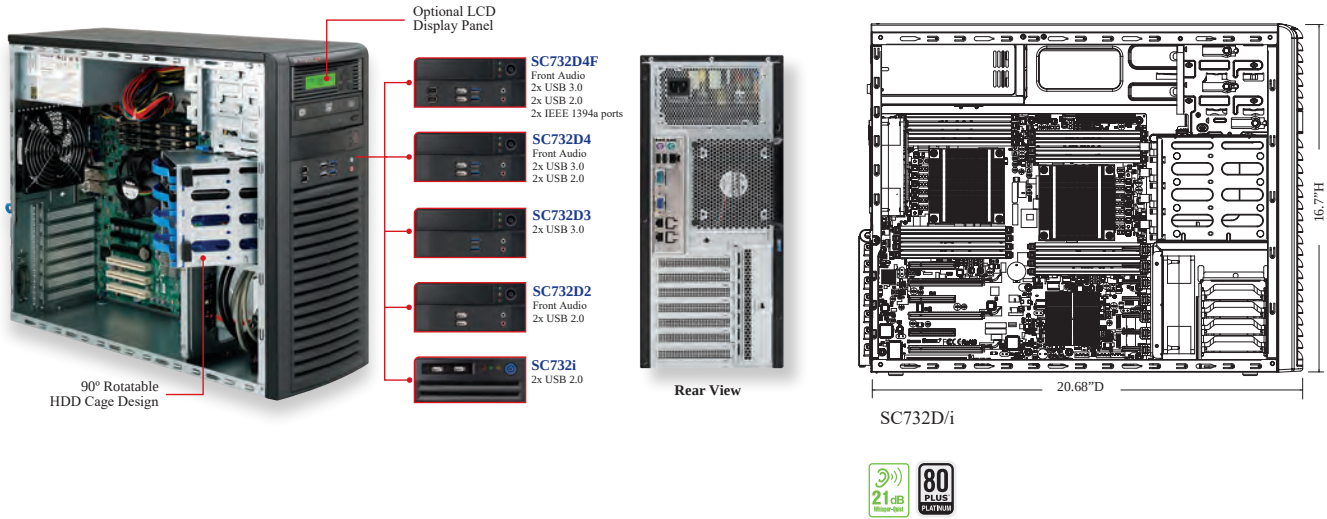
Specifications

Form Factor	Mid-tower chassis supports motherboards - 12" x 13" E-ATX and ATX		
CPU support	Single and Dual Intel® processors and AMD processors		
Expansion	7x full-height full-length expansion slots		
Peripheral Drives	2x front USB ports & 1x 3.5" device bay		
Drive Bays	4x 3.5" hot-swap SAS/SATA drive bays & 2x 5.25" drive bays		
Power Supply	668W Multi-output Platinum Level power supply		
Cooling System	1x 12cm rear exhaust fan & 1x 9cm front cooling fan		
Dimensions	W x H x D: 16.8" (427mm) x 7" (178mm) x 20.9" (531mm) Package: 24.2" (615mm) x 12.8" (326mm) x 26.4" (671mm)		
Front Panel LEDs	Power LED, Hard Drive Activity LED, Network Activity LEDs & System Information LED		
Front Panel Buttons	Power On/Off button & System Reset button		
Temperature	Operating: 5° ~ 35° C (41° to 95° F) Non-operating: -40° ~ 70° C (-40° to 158° F)		
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing		

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			Drive	Cooling System	Power Supply	Gross Weight
	X11	X10	X9				
SC733TQ-668B		●	●	4 SAS/SATA	1x 12cm rear exhaust fan 1x 9cm front cooling fan	668W Platinum Level w/low-noise fan speed control	40 lbs

Optional Kit	Model Part #	Description
LCD Kit	MCP-220-00095-0B	5.25" USB LCD Kit



Features

■ Black

- ✓ Versatile front I/O access (5 models: SC732D4F, SC732D4, SC732D3, SC732D2, and SC732i)
- ✓ Double tool-less side panels; tool-less 5.25" (DVD), 3.5" (card reader) device & add-on-card installation
- ✓ 90° rotatable HDD cage design; One push HDD installation; and Folded Edge design for safe installation
- ✓ Optional All-In-One card reader available (for SC732D only); **optional 4x internal 2.5" fixed HDD bays**

Specifications

Form Factor	Mid-tower chassis supports motherboards - 12"x13" E-ATX, 12"x10" ATX and 9.6"x9.6" Micro-ATX
CPU Support	Dual and Single Intel® Processors & AMD Processor
Expansion	7x full-height & full-length expansion slots
Peripheral Drives	2x standard 5.25" bays; 1x 3.5" bay (for SC732D only)
Drive Bays	90° rotatable drive cage; 4x 3.5" internal fixed HDD bays; optional 4x 2.5" internal fixed HDD bays
Power Supply	400W/500W/865W/900W power supply
Cooling System	1x 12cm (1850rpm) / 9cm (2050rpm) rear exhaust fan; optional 1x 12cm (1850rpm) front cooling fan
Front Panel Ports	SC732D4: 2x front USB 3.0 ports, 2x front USB 2.0 ports, 2x audio ports; SC732D3: 2x front USB 3.0 ports, 2x front USB 2.0 ports, front HD/AC97 audio ports; SC732i: 2x front USB 3.0 ports
Front Panel LEDs	Power Status LED; Network Activity LED; HDD Activity LED; System Information LED
Front Panel Buttons	Blue On/Off LED power switch
Dimensions	W x H x D: 16.7"x7.6"x20.68"(424x193x525.30mm); Package: 21.38"x 11.97"x 25.28"(543x304x642mm)
Temperature	Operating: 5° ~ 35° C (41° to 95° F) Non-operating: -40° ~ 70° C (-40° to 158° F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB				Drive	Cooling Fan	Front Panel I/O	Power Supply	Gross Weight
	X12	X11	X10	X9					
SC732D3-903B			●	●	4x SAS/SATA 3.5" HDD bays; optional 4x internal 2.5" fixed HDD bays	1x 12cm rear exhaust fan; 1x 12cm (front) cooling fan	2x USB 3.0, 2x audio ports	900W Gold Level power supply	30 lbs
New! SC732D3-1K26B	●	●	●	●	4x SAS/SATA 3.5" HDD bays; optional 4x internal 2.5" fixed HDD bays	1x 12cm rear exhaust fan; 1x 12cm (front) cooling fan	2x USB 3.0, 2x audio ports	1200W Platinum Level power supply	30 lbs
New! SC732D4-668B	●	●	●	●	4x SAS/SATA 3.5" HDD bays; optional 4x internal 2.5" fixed HDD bays	1x 12cm (1850rpm) rear exhaust fan	2x USB 3.0, 2x USB 2.0, 2x audio ports	668W Platinum Level power supply	30 lbs
SC732D4-903B			●	●	4x SAS/SATA 3.5" HDD bays; optional 4x internal 2.5" fixed HDD bays	1x 12cm (1850rpm) rear exhaust fan	2x USB 3.0, 2x USB 2.0, 2x audio ports	900W Gold Level power supply	30 lbs
New! SC732i-668B	●	●	●	●	4x SAS/SATA 3.5" HDD bays; optional 4x internal 2.5" fixed HDD bays	1x Optional Front 12cm (1850 RPM) PWM Fan	2x USB 3.0	668W Platinum Level power supply	30 lbs
New! SC732i-R600B	●	●	●	●	4x SAS/SATA 3.5" HDD bays; optional 4x internal 2.5" fixed HDD bays	1x Optional Front 12cm (1850 RPM) PWM Fan	2x USB 3.0	600W redundant power supplies	30 lbs

Optional Kit	Model Part #	Description
Front Cooling Fan	FAN-0124L4	12cm (1850rpm) cooling Fan
Adapter Cable	CBL-0454L	USB 3.0 to 2.0 adapter cable - 30cm(19pin male to 9pin female)
All-In-One Card Reader	MCP-450-73101-0B	Card Reader for SC731D & SC732D
LCD Kit	MCP-220-00095-0B	5.25" USB LCD Kit
2.5" HDD Cage	MCP-220-73201-0N	HDD Cage (4x Internal 2.5" fixed HDD bays)
	MCP-220-73102-0N	

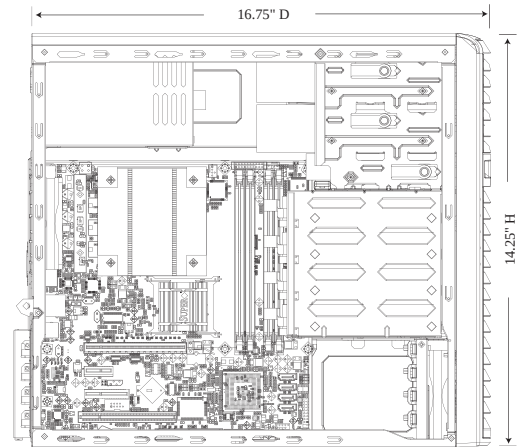
Tool-less designs enable quick-and-easy installation



SC731i-404B



SC731i



■ Black

Features

- ✓ 90° Rotatable HDD Cage
- ✓ Whisper-Quiet (<25dB)
- ✓ Kensington Lock Support 4. Front I/O Supports 2x USB 3.0
- ✓ 1x Optional Front Intake 8cm (2800 RPM) PWM Fan
- ✓ Mini-Tower Chassis Supports Micro-ATX Motherboard, Size 9.6" x 9.6"
- ✓ 400W Gold Level Certified High-Efficiency Power Supply
- ✓ 1x Rear 9cm (2050 RPM) PWM Fan
- ✓ 2x 5.25" External HDD Drive Bays & 4x 3.5" Internal HDD Drive Bays

Specifications

Form Factor	Mini-tower chassis supports Micro-ATX motherboard, size 9.6" x 9.6"		
CPU support	Single Intel® processors and AMD processors		
Expansion	4x full-height, full-length I/O expansion slots		
Peripheral Drives	2x standard 5.25" bays; 4x 3.5" internal HDD drive bays (tool-less)		
Power Supply	400W ATX/PS2 Multi-output Power Supply		
Cooling System	1x 9cm rear exhaust fan; 1x optional 8cm front cooling fan		
Dimensions	W x H x D: 14.25" (362mm) x 7.25" (184mm) x 16.75" (425mm) Package: 21" (534mm) x 11" (280mm) x 23" (585mm)		
Front Panel LEDs	Power Status LED; Hard Drive Activity LED; Network Activity LED; System Information LED		
Front Panel Buttons	Blue On/Off LED power switch		
Temperature	Operating: 5° ~ 35° C (41° to 95° F) Non-operating: -40° ~ 70° C (-40° to 158° F)		
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing		

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			Drive	Cooling System	Power Supply	Gross Weight
	X11	X10	X9				
SC731i-404B	●	●	●	4 SAS/SATA	1x 9cm (2050 RPM) rear exhaust fan, 1x 8cm (front) cooling fan	400W power supply	20 lbs

Optional Kit	Model Part #	Description
Fan Kit	FAN-0113L4	80X25MM 2.8K RPM 4-PIN PWM Fan For SC731
Peripheral Drive	DVM-SONY-DVDRW24-HBT	Black SONY 5.25" 24X DVD-RW, SATA Drive
Peripheral Drive	DVM-LITE-DVDRW24-HBT	Black LITE-ON 5.25" 24X DVD-RW SATA Drive

SC946LE1C-JBOD

4U High-Density Top-Loading Storage

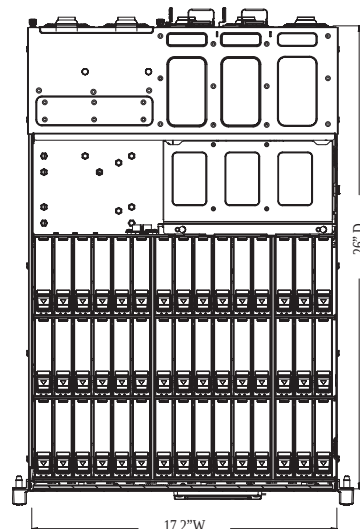
Short-Depth JBOD Storage, Up to 45x 3.5" Top-Loading Hot-Swap HDDs in 4U



(Front View)



(Rear View)



SC946LE1C-R1K66JBOD



■ Black

Features

- ✓ Extreme High Density and High Capacity Storage Chassis support 45x 3.5" Top Loading SAS3/SATA3 12Gb/s Hot Swapping HDD/SSD Bays
- ✓ Tool-less HDD tray with HDD LED indicator
- ✓ Single Expander Backplane Board(s) support SAS3/2 HDDs with 12Gb/s throughput
- ✓ 4x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements
- ✓ 1x IPMI port for Remote System Power on/off and system monitoring
- ✓ Support NTP for time synchronization & RTC battery backup
- ✓ 1600W (1+1) Redundant High-efficiency Platinum Level Power Supplies
- ✓ Optimized cooling w/ 5x 80x38mm rear hot-swap fans
- ✓ Support front LCD panel for system status & error info (Option)
- ✓ Ideal for Cloud backup, data Replication or High density Archive Storage Applications

Specifications

Form Factor	4U Rackmount chassis
Drive Bays	Up to 45x 3.5" hot-swap SAS/SATA drive bay with SES3
Power Supply	1600W redundant Platinum Level power supplies with PMBus & I ² C
Cooling System	5x 80mm rear hot-swap exhaust PWM fan
Front Panel LEDs	1 Network Activity LEDs, Power Status LED, Power Fail LED, System Information LED
Front Panel Buttons	Power On/Off button; Unit Identification (UID) button
Backplane	45-port 4U SC946L Top-load SAS3 12Gb/s Expander Backplane Board support up to 45x 3.5" SAS3/SATA3 HDDs/SDDs
Rail	Extendable length: MCP-290-00150-0N
Dimensions	W x H x D: 17.2" (437.04mm) x 7" (178mm) x 26" (660mm)
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

Model	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
SC946LE1C-R1K66JBOD	45x 3.5" hot-swap SAS/SATA w/SES3 (Single SAS3 expander w/ mini SAS HD connectors)	5x 8cm Hot-swap Fans	2x 1600W Redundant Platinum Level Power with PMBus & I ² C	4A	82A	120 lbs

Optional Parts	Model Part #	Description
Cables	CBL-SAST-0690 CBL-SAST-0677	2M external Mini SAS HD to external Mini SAS HD 3M external Mini SAS HD to external Mini SAS HD
LCD Module	MCP-210-94602-0B	3.5" LCD display kit for SC946S

SC946SE2C/E1C-JBOD *4U High-Density Top-Loading Storage*

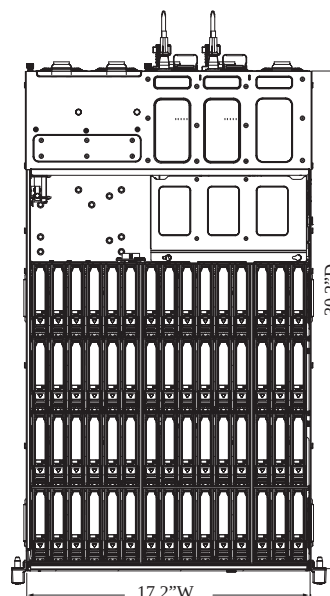
JBOD Storage, Up to 60x 3.5" Top-Loading SAS3 Hot-Swap HDDs in 4U



(Front View)



(Rear View)



SC946SE2C/1C-R1K66JBOD



■ Black

Features

- ✓ Extreme High Density and High Capacity Storage Chassis support 60x 3.5" Top Loading SAS3/SATA3 12Gb/s Hot Swapping HDD/SSD Bays
- ✓ Tool-less HDD tray with HDD LED indicator
- ✓ Dual/Single Expander Backplane Board(s) support SAS3/2 HDDs with 12Gb/s throughput
- ✓ 8x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements
- ✓ 1x IPMI port for Remote System Power on/off and system monitoring
- ✓ Support NTP for time synchronization & RTC battery backup
- ✓ 1600W (1+1) Redundant High-efficiency **Platinum Level** Power Supplies
- ✓ Optimized cooling w/ 5x 80x38mm rear hot-swap fans
- ✓ Support front LCD panel for system status & error info (Option)
- ✓ Ideal for Cloud backup, data Replication or High density Archive Storage Applications

Specifications

Form Factor	4U Rackmount chassis
Drive Bays	Up to 60x 3.5" hot-swap SAS/SATA drive bay with SES3
Power Supply	2x 1600W redundant Platinum Level power supplies with PMBus & I ² C
Cooling System	5x 80mm rear hot-swap exhaust PWM fan
Front Panel LEDs	1 Network Activity LEDs, Power Status LED, Power Fail LED, System Information LED
Front Panel Buttons	Power On/Off button; Unit Identification (UID) button
Backplane	Dual/Single Expander Backplane Board(s) support SAS3/2 HDDs with 12Gb/s throughput
Rail	Extendable length: 26.6" to 36.4"
Dimensions	W x H x D: 17.2" (437.04mm) x 7" (178mm) x 30.2" (767mm); 17.2" (437mm) x 7" (178mm) x 35.2" (895mm) with cable management arm installed
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

Model	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
SC946SE2C-R1K66JBOD	60x 3.5" hot-swap SAS w/SES3 (Dual SAS3 expanders w/ mini SAS HD connectors)	5x 8cm Hot-swap Fans	2x 1600W Redundant Platinum Level Power with PMBus & I ² C	4A	82A	155 lbs
SC946SE1C-R1K66JBOD	60x 3.5" hot-swap SAS/SATA w/SES3 (Single SAS3 expander w/ mini SAS HD connectors)	5x 8cm Hot-swap Fans	2x 1600W Redundant Platinum Level Power with PMBus & I ² C	4A	82A	155 lbs

Optional Parts	Model Part #	Description
Cables	CBL-SAST-0690 CBL-SAST-0677	2M external Mini SAS HD to external Mini SAS HD 3M external Mini SAS HD to external Mini SAS HD
LCD Module	MCP-210-94602-0B	3.5" LCD display kit for SC946S

SC946ED-JBOD

4U High-Density Top-Loading Storage

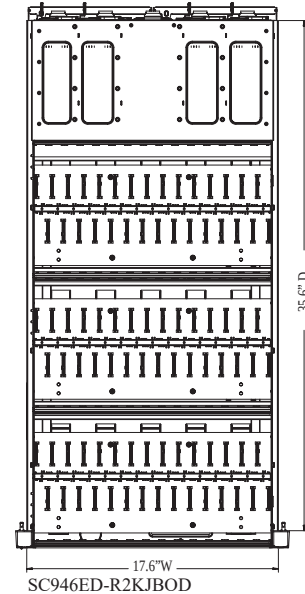
JBOD Storage, Up to 90x 3.5" Top-Loading SAS3 Hot-Swap HDDs in 4U



(Front View)



(Rear View)



NEW!

80 PLUS

TITANIUM

12Gb/s

■ Black

Features

- ✓ Support 90x 3.5" SAS3 12Gb/s Hot-swappable HDDs
- ✓ High performance up to 20Gb/s transfer rate
- ✓ Hot-swappable Expanders with redundant BMC for Remote System Power on/off and monitoring
- ✓ Hot-swappable Tool-less Modular Design for Easy Service and Easy Maintenance
- ✓ Tool-less HDD tray with HDD LED indicator
- ✓ Supports up to 4 Hosts with HDD Zoning and individual HDD power cycling
- ✓ Slide rails and Cable Management Arm included

Specifications

Form Factor	4U chassis
Drive Bays	90x 3.5" hot-swap SAS/SATA drive bay with SES 3.0 (2 expanders for dual-port support)
Power Supply	4x 1000W redundant (N+1) high efficient Titanium Level power supplies
Cooling System	5x 80mm high-performance cooling fans
Front Panel LEDs	2 IPMI LEDs, UID, System Information LED, Power Failure LED
Front Panel Buttons	Power On/Off button; Unit Identification (UID) button
Expansion	4x Mini-SAS HD (SFF-8644) per expander module
Rail	Expendable length 28"-34"
Dimensions	W x H x D: 17.6" (447.04mm) x 7" (178mm) x 35.6" (906mm)
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

Model	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
SC946ED-R2KJBOD	90x 3.5" SAS3 12Gb/s Hot-swappable HDDs	5x 8cm Hot-swap Fans	4x 1000W Redundant Titanium Level (96%) Power	4A	100A	225 lbs

Optional Parts	Model Part #	Description
External SAS Cables	CBL-SAST-0690	2M external Mini SAS HD to external Mini SAS HD
	CBL-SAST-0677	3M external Mini SAS HD to external Mini SAS HD

JBOD Top-Loading Storage, Up to 60x 3.5"/2.5" HDDs in 4U, Ready to Deploy.



(Rear View)



■ Black

Features

(Rear View)

- ✓ Dual/Single-Path Storage Enclosure
- ✓ Support two canister controllers; 1+1 redundant for Dual-Path Enclosure
- ✓ Support 60x 3.5" Top-Loading SAS3 12Gb/s Hot-Swappable HDDs
- ✓ 6x SAS3.0 IO ports (MiniSAS HD) per node
- ✓ Dedicated IPMI RJ45 management port
- ✓ Redfish OOB management protocol support
- ✓ SCSI Enclosure Services SES-4 support
- ✓ Hot-swappable Tool-less Modular Design for Easy Service and Easy Maintenance
- ✓ Redundant 1600W **Platinum Level** power supplies

Specifications

Form Factor	4U Rackmount Top-Load JBOD Storage Enclosure
Drive Bays	60x 3.5"/2.5" hot-swap SAS drive bay with SES3
Power Supply	Redundant 1600W Platinum Level power supplies with PMBus & I2C
Cooling System	6x 8cm hot-swap redundant PWM cooling fans
Front Panel LEDs	1 Network Activity LEDs, HDD activity LED, Power LED, System Information LED, Unit Identification (UID) LED
Front Panel Buttons	Power On/Off button; Unit Identification (UID) button
Backplane	Adapter board between Expander and HDD BPN for CSE-947H, RoHS BPN-ADP-947SB, RoHS HDD Backplane (15-slot) for CSE-947H 60/90-bay top load chassis/server.,RoHS SAS3 expander module for top-load 60/90-bay single/twin/SBB CSE-947 project,RoHS IPMI control board for CSE-947H top-load 60/90-bay JBOD JBOD I/O board for CSE-947H top-load 60/90-bay JBOD unit Midplane for topload CSE-947 60/90-bay SBB/Twin/single-node system, RoHS 4 Passive backplane boards for SAS 3.0
Dimensions	W x H x D: 17.6" (447mm) x 6.96" (177mm) x 32" (813mm)
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

Model	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
New! SC947SE1C-R1K66JBOD	60x 3.5"/2.5" hot-swap SAS drive bay with SES3	6x 8cm hot-swap redundant PWM cooling fans	1600W Redundant (1+1) Platinum Level w/ PMBus & I2C	4A	82A	170 lbs
New! SC947SE2C-R1K66JBOD	60x 3.5"/2.5" hot-swap SAS drive bay with SES3	6x 8cm hot-swap redundant PWM cooling fans	1600W Redundant (1+1) Platinum Level w/ PMBus & I2C	4A	82A	173 lbs

Optional Kit	Model Part #	
Cable	CBL-SAST-0573-01 CBL-SAST-0690-1 CBL-SAST-0677	MINI SAS HD, EXT, 1M, 28AWG MINI SAS HD,12G,EXT,2M,30AWG,RoHS 3m External Mini SAS HD to External Mini SAS HD 28AWG

SC947HE2C/E1C-JBOD

4U Top-Loading JBOD Storage Chassis

JBOD Top-Loading Storage, Up to 90x 3.5"/2.5" HDDs in 4U, Ready to Deploy.



(Rear View)



■ Black

Features

- ✓ Dual/Single-Path Storage Enclosure
- ✓ Single canister controllers with field serviceable tray
- ✓ Support 90x 3.5"/2.5" Top Loading SATA 6Gb/s/SAS3 12Gb/s Hot-Swappable HDDs
- ✓ 6x SAS3.0 IO ports (MiniSAS HD/SFF-8644)
- ✓ Dedicated IPMI RJ45 management port
- ✓ Redfish OOB management protocol support
- ✓ SCSI Enclosure Services SES-4 support
- ✓ Hot-swappable Tool-less Modular Design for Easy Service and Easy Maintenance
- ✓ Redundant 2000W Titanium Level power supply

Specifications

Form Factor	4U Rackmount Top-Load JBOD Storage Enclosure
Drive Bays	90x 3.5"/2.5" hot-swap SAS drive bay with SES3
Power Supply	Redundant 2000W Titanium Level power supplies
Cooling System	6x 8cm hot-swap redundant PWM cooling fan
Front Panel LEDs	Network Activity LED, HDD activity LED, Power LED, System Information LED, Unit Identification (UID) LED
Front Panel Buttons	Power On/Off button; System Reset Button; Unit Identification (UID) button
Backplane	Adapter board between Expander and HDD BPN for CSE-947H,RoHS HDD Backplane (15-slot) for CSE-947H 60/90-bay top load chassis/server.,RoHS SAS3 expander module for top-load 60/90-bay single/twin/SBB CSE-947 project,RoHS IPMI control board for CSE-947H top-load 60/90-bay JBOD JBOD I/O board for CSE-947H top-load 60/90-bay JBOD unit Midplane for topload CSE-947 60/90-bay SBB/Twin/single-node system,RoHS 6 Passive backplane board for SAS3.0
Dimensions	W x H x D: 17.6" (447mm) x 6.96" (177mm) x 43.3" (1099mm)
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

Model	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
New! SC947HE1C-R2K05JBOD	90x 3.5"/2.5" hot-swap SAS drive bay with SES3	6x 8cm hot-swap redundant PWM cooling fans	2000W Redundant (1+1) Titanium Level w/ PMBus & I2C	N/A	166.7A	225 lbs
New! SC947HE2C-R2K05JBOD	90x 3.5"/2.5" hot-swap SAS drive bay with SES3	6x 8cm hot-swap redundant PWM cooling fans	2000W Redundant (1+1) Titanium Level w/ PMBus & I2C	N/A	166.7A	225 lbs

Optional Kit	Model Part #	
Cable	CBL-SAST-0573-01 CBL-SAST-0690-1 CBL-SAST-0677	MINI SAS HD, EXT, 1M, 28AWG MINI SAS HD, 12G,EXT,2M,30AWG,RoHS 3m External Mini SAS HD to External Mini SAS HD 28AWG

SC847(B)E2C/E1C

4U Extra High-Density Storage Chassis

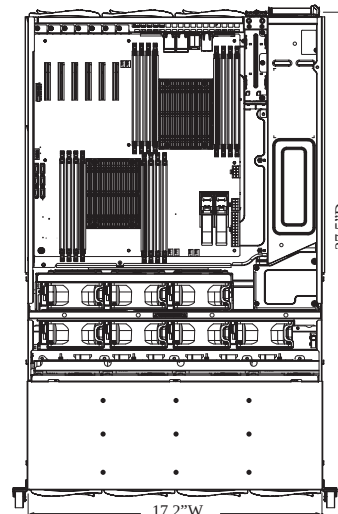
High-Density Double-Sided Storage®



SC847BE1C/E2C-R1K28LPB



SC847BE1C/E2C-R1K28LPB (Rear View)
with optional rear 2.5" HDD kit



Black

Features

- ✓ 36x (24 front + 12 rear) 3.5" hot-swap HDD bays for server chassis
- ✓ 1280W **Platinum Level** / 1400W **Gold Level** (1+1) redundant power supplies with PMBus
- ✓ 7x low-profile or 4x full-height + 3x low-profile (UIO/WIO) expansion slots; 7x 8cm (middle) hot-swap cooling fans, redundant cooling
- ✓ E1C: Single **SAS3** (12Gb/s) expander backplane; E2C: Dual **SAS3** (12Gb/s) expander backplane; E16: SAS2 (6Gb/s) single expander backplane; E26: SAS2 (6Gb/s) Dual expander backplanes
- ✓ Palletized Packing for easy shipping and handling

Specifications

Form Factor	4U chassis support for motherboard size - 13.68" x 13", E-ATX, and ATX
CPU Support	Dual and Single Intel® Processors and AMD Processors
Expansion	WB: 4x full-height + 3x low-profile expansion slots; LPB: 7x low-profile expansion slots
Drive Bays	36x (24 front + 12 rear) 3.5" hot-swap HDD bays for server chassis
Peripheral Drives	2x 2.5" rear hot-swap HDD drives bays
Power Supply	1200W Titanium / 1280W Platinum / 1400W Gold Level (1+1) redundant power supplies with PMbus
Cooling System	7x 8cm hot-swap cooling fans, redundant cooling
Front Panel LEDs	Power LED, HDD activity LED, 2 Network Activity LEDs, System Information LED and Power Failed LED
Front Panel Buttons	Power On/Off button, system reset button
Dimensions	W x H x D: 17.2"(434mm) x 7"(178mm) x 27.5"(699mm) Package: 27.2" x 17.4" x 39.6" (691 x 442 x 1006mm)
Rail	Extendable lengths 28" to 33.67"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ○ Compatible ● Optimized low-power configuration ○ Compatible low-power configuration

Model	MB			PCI I/O	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9							
SC847A-R1400LPB		○	○	7x LP	36x (24 front + 12 rear) 3.5" hot-swap SAS/SATA	7x 8cm hot-swap redundant cooling	1400W Redundant (1+1) Gold Level power supplies with PMBus	4	92/116	75 lbs
SC847BE1C/E2C-R1K28LPB		●	●	7x LP	36x (24 front + 12 rear) 3.5" hot-swap SAS3 w/SE3 (Single/Dual SAS3 expander w/ Mini-SAS HD connectors)	7x 8cm hot-swap redundant cooling	1280W Redundant (1+1) Platinum Level power supplies with PMBus	4	83/106.7	75 lbs
SC847BE1C/E2C-R1K28WB		●	●	4x FH + 3x LP	36x (24 front + 12 rear) 3.5" hot-swap SAS3 w/SE3 (Single/Dual SAS3 expander w/ Mini-SAS HD connectors)	7x 8cm hot-swap redundant cooling	1280W Redundant (1+1) Platinum Level power supplies with PMBus	4	83/106.7	75 lbs
SC847BA-R1K28LPB		○	●	7x LP	36x (24 front + 12 rear) 3.5" hot-swap SAS/SATA	7x 8cm hot-swap redundant cooling	1280W Redundant (1+1) Platinum Level power supplies with PMBus	4	106.7A	75 lbs
SC847BE1C4-R1K23LPB	●	●	●	7x LP	32x SAS3 + 4x NVMe */ SAS3 Hybrid 3.5" hot-swap HDDs	7x 8cm hot-swap redundant cooling	1200W Redundant (1+1) Titanium Level power supplies with PMBus	4	83/106.7	75 lbs



Optional Kit	Model Part #	Description
External SAS Cable	CBL-0166L CBL-SAST-0573	External iPASS to iPASS cable (1M) External Mini SAS HD to external Mini SAS HD 28AWG (1M)
Rear HDD Kit	MCP-220-82616-0N	12G rear 2.5"x2 HDD Drive Kit w/ Status LED (for 216B/826B/417B/846X/847B/226S/826S)
Adaptor HDD Carrier	MCP-220-00118-0B	Black gen-5.5 tool-less hot-swap 3.5"-to-2.5" converter tray

* Fully hot-swap **NVMe** feature is supported by Supermicro OEM configuration only

SC847E2C/E1C-JBOD

4U Double-Sided JBOD Storage Chassis

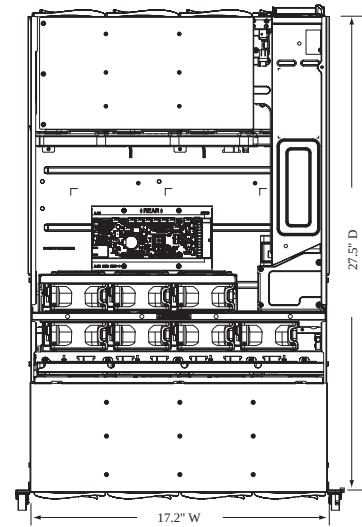
JBOD Double-Sided Storage®, Up to 45x HDDs in 4U. Ready to Deploy.



SC847E1C/E2C-R1K23JBOD
Front - 24x 3.5" hot-swap HDDs



SC847E1C/E2C-R1K23JBOD
Rear - 20x 3.5" hot-swap HDDs



Features

■ Black

- ✓ 44x (24 front + 20 rear) 3.5" hot-swap SAS drive bays supporting SAS3/2 HDDs with 12Gbps throughput
- ✓ Redundant 1200W Titanium Level (1+1) power supplies with PMBus
- ✓ 7x 8cm (middle) hot-swap redundant cooling fans
- ✓ **SC847E1C**: SAS3 (12Gbps) backplane with single expander supports SAS3/SATA3 drives for capacity expansion
- ✓ **SC847E2C**: SAS3 (12Gbps) backplane with **dual expanders** supports SAS3 drives for load balancing and redundancy
- ✓ JBOD Power Control Board with IPMI for remote monitor and power on-off
- ✓ 8x External mini SAS HD (SFF 8644) connectivity and IPMI RJ45 port
- ✓ Palletized packaging for easy shipping and handling

Specifications

Form Factor	4U JBOD storage chassis
Drive Bays	44x 3.5" hot-swap HDD bays for JBOD solution
Power Supply	Redundant 1200W/1000W Titanium power supplies w/ PMBus
Cooling System	7x 8cm hot-swap cooling fans, redundant cooling
Front Panel LEDs	Power LED, Network activity LED, System Information LED and Power Failed LED
Front Panel Buttons	Power On/Off button, UID/IPMI IP reset button
Dimensions	W x H x D: 17.2" (434mm) x 7" (178mm) x 27.5" (699mm) Package: 27.2" x 17.4" x 39.6" (691 x 442 x 1006mm)
Rail	Extendable lengths 26.5" to 36.4"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

Model	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
New! SC847E1C-R1K23JBOD	24-port 4U SAS3 12Gbps single-expander backplane, support up to 24x 3.5-inch SAS3/SATA3 HDD/SSD 20-port 4U (SC847E1C JBOD) SAS3 12Gbps single-expander backplane (rear), support up to 20x 3.5-inch SAS3/SATA3 HDD/SSD	7x 8cm hot-swap redundant cooling	Redundant 1200W/1000W Titanium Level (1+1) power supplies with PMBus	4	100A	95 lbs
New! SC847E2C-R1K23JBOD	24-port 4U SAS3 12Gbps dual-expander backplane, support up to 24x 3.5-inch SAS3/SATA3 HDD/SSD (secondary expander port only connects to dual-port SAS devices, single-port SATA will not have this redundancy feature); 20-port 4U (SC847E2C JBOD) SAS3 12Gbps dual-expander backplane (rear), support up to 20x 3.5-inch SAS3/SATA3 HDD/SSD (secondary expander port only connects to dual-port SAS devices, single-port SATA will not have this redundancy feature)		Redundant 1200W/1000W Titanium Level (1+1) power supplies with PMBus	4	100A	95 lbs

Optional Kit	Model Part #	Description
External SAS Cable	CBL-0166L CBL-SAST-0573	External iPASS to iPASS cable (iM) External Mini SAS HD to external Mini SAS HD 28AWG (1M)

SC846(B)E2C/E1C/TQ/A

4U Storage Chassis

100% Cooling Redundancy, Highly Reliable, Available and Scalable Storage



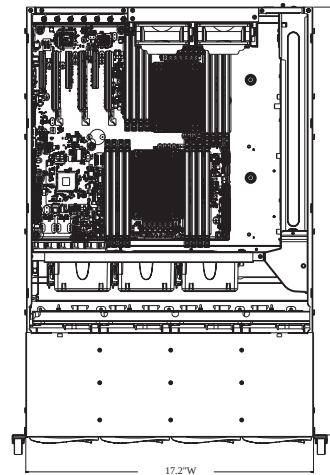
SC846BA-R1K28B



SC846 Rear View
(7 Slots)



SC846B Rear View
(Redundant Power, 7 Slots,
w/ optional rear HDD Kit)



■ Black

Features

- ✓ 100% cooling redundancy, supports up to 24 hot-swap SAS/SATA drive bays
- ✓ Redundant 1200W **Titanium Level** /1280W/920W **Platinum Level** / 1200W **Gold Level** high efficiency power supply & 5 hot-plug redundant cooling fans w/ adjustable air shroud
- ✓ E1C: Single **SAS3** (12Gb/s) expander backplane; E2C: Dual **SAS3** (12Gb/s) expander backplane; E16: Single **SAS2** (6Gb/s) expander backplane; E26: Dual **SAS2** (6Gb/s) expander backplanes
- ✓ Mini-iPass (SFF 8087) connectivity (A/E16/E26 model); MiniSAS HD (SFF 8643) connectivity (E1C/E2C)

Specifications

Form Factor	4U chassis support for motherboard size - 13.68"x13" E-ATX, 12" x 13", and 12"x10" ATX
CPU Support	Dual and Single Intel® Processors and AMD Processors
Expansion	7 full-height full-length expansion slots
Peripheral Drives	Optional 2x 3.5 HDD; or 1x DVD and 1x 3.5" HDD; or 1x DVD and 2x 2.5" HDD
Cooling System	3x 80x38mm hot-swap cooling fans, 2x 80x32mm exhaust fans & air shroud
Front Panel LEDs	Power LED, Hard Drive Activity LED, 2 Network Activity LEDs, System Information LED & Power Fail LED
Front Panel Buttons	Power on/off button & system reset button
Dimensions	W x H x D: 17.2" (437mm) x 7" (178mm) x 26" (660mm) Package: 34.3" x 26.5" x 13.5"; Palletized Packing: 37.3" x 14.8" x 27" (for R1200 model)
Rail	Extendable lengths 26.5" to 36.4"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ○ Compatible ● Optimized low-power configuration ○ Compatible low-power configuration

Model	MB X11 X10 X9	PCI I/O	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
SC846E16-R1200B	●	●	7 FH/FL 24x 3.5" hot-swap SAS2/SATA drive bays with SES-II, single SAS expander w/ iPass connectors	3x 7000rpm fans; 2x 6700rpm fans	Redundant 1200W Gold Level high-efficiency	4	83/100	75 lbs
SC846BA-R1K28B	●	●	7 FH/FL 24x 3.5" hot-swap SAS2/SATA drive bays; optional rear 2x 2.5 HDD		Redundant 1280W Platinum Level high-efficiency	4	83/100	75 lbs
SC846BE16-R1K28B	●	●	7 FH/FL 24x 3.5" hot-swap SAS2/SATA drive bays; optional rear 2x 2.5 HDD with SES-II, single SAS2 expander w/ iPass connector		Redundant 1280W Platinum Level high-efficiency	4	83/100	75 lbs
SC846BA-R920B	●	●	7 FH/FL 24x 3.5" hot-swap SAS2/SATA drive bays; optional rear 2x 2.5 HDD		Redundant 920W Platinum Level high-efficiency	4	83/100	75 lbs
SC846BE16-R920B	●	●	7 FH/FL 24x 3.5" hot-swap SAS2/SATA drive bays; optional rear 2x 2.5 HDD with SES-II, single SAS2 expander w/ iPass connector		Redundant 1280W Platinum Level high-efficiency	4	83/100	75 lbs
SC846BE1C-R1K28B	●	●	7 FH/FL 24x 3.5" hot-swap SAS3 drive bays; optional rear 2x 2.5 HDD with SES-3, single SAS3 expander w/ MiniSAS HD connector		Redundant 1280W Platinum Level high-efficiency	4	83/100	75 lbs
SC846BE2C-R1K28B	●	●	7 FH/FL 24x 3.5" hot-swap SAS3 drive bays; optional rear 2x 2.5 HDD with SES-3, Dual SAS3 expanders w/ MiniSAS HD connector	3x 10500rpm fans; 2x 6700rpm fans	Redundant 1200W/1000W Titanium Level high-efficiency	4	100A	75 lbs
SC846BE1C-R1K23B	●	●	7 FH/FL 24x 3.5" hot-swap SAS3 drive bays; optional rear 2x 2.5 HDD with SES-3, single SAS3 expander w/ MiniSAS HD connector		Redundant 1200W/1000W Titanium Level high-efficiency	4	100A	75 lbs
SC846BE2C-R1K23B	●	●	7 FH/FL 24x 3.5" hot-swap SAS3 drive bays; optional rear 2x 2.5 HDD with SES-3, Dual SAS3 expanders w/ MiniSAS HD connector		Redundant 1200W/1000W Titanium Level high-efficiency	4	100A	75 lbs

Optional Kit	Model Part #	Description
Short Rail	MCP-290-00058-0N	Short rail set, quick release, 19" to 26.6"
HDD Kit	MCP-220-84610-0N	Optional HDD kit for SC846BA/E16/E26 chassis only
SATA DVD Kit	MCP-220-84607-0N	Rear side slim DVD kit for 846B chassis
Adaptor HDD Carrier	MCP-220-00118-0B	Black gen-5.5 tool-less hot-swap 3.5"-to-2.5" converter tray

SC846BE2C/E1C-JBOD

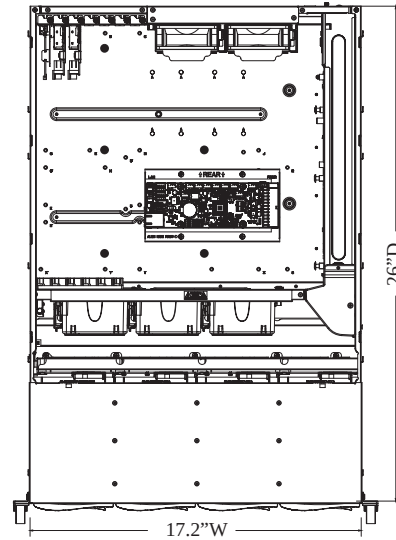
4U Chassis for JBOD solution



SC846BE1C/E2C-R609JBOD



SC846BE1C/E2C-R609JBOD (Rear View)



■ Black

Features

- ✓ Cloud Backup, Data Replication, or High Density Archive Storage Applications
- ✓ 4U Storage JBOD Chassis with capacity 24x 3.5" hot-swappable HDDs bays
- ✓ **SC846BE1C**: Single Expander Backplane Boards support SAS3/2 HDDs with 12Gb/s throughput
- ✓ **SC846BE2C**: Dual Expander Backplane Boards support SAS3/2 HDDs with 12Gb/s throughput
- ✓ 4x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements
- ✓ 1x IPMI port for Remote System Power on/off and system monitoring
- ✓ Support NTP for time synchronization & RTC battery backup
- ✓ Redundant 600W (1+1) Platinum Level power supplies
- ✓ 5 hot-plug redundant cooling fans

Specifications

Form Factor	4U rackmount chassis
Drive Bays	Up to 24x 3.5" hot-swap HDD bays for JBOD solution
Power Supply	Redundant 600W Platinum Level power supplies
Cooling System	3x 8cm hot-swap redundant PWM cooling fans 2x 8cm hot-swap exhaust fans & air shroud
Front Panel LEDs	Power LED, Hard Drive Activity LED, 2 Network Activity LEDs, System Information LED & Power Fail LED
Front Panel Buttons	Power on/off button & system reset button
Dimensions	W x H x D: 17.2" (437mm) x 7" (178mm) x 26" (660mm); Package: 26.7" x 14.8" x 37.3"
Rail	Extendable lengths: 26.5" to 36.4"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

Model	Drive	Power	+5VSB	+12V	Gross Weight
New! SC846BE1C-R609JBOD	24-port 4U SAS3 12Gbps single-expander backplane, support up to 24x 3.5-inch SAS3/SATA3 HDD/SSD	Redundant 600W Platinum Level	4A	83A	80 lbs
New! SC846BE2C-R609JBOD	24-port 4U SAS3 12Gbps dual-expander backplane, support up to 24x 3.5-inch SAS3/SATA3 HDD/SSD (secondary expander port only connects to dual-port SAS devices, single-port SATA will not have this redundancy feature)	Redundant 600W Platinum Level	4A	83A	80 lbs

Optional Kit	Model Part #	Description
Cable	CBL-SAST-0573 CBL-SAST-0690-1 CBL-SAST-0677	External mini SAS HD to external mini SAS HD cable 28AWG (1M) MINI SAS HD,12G,EXT,2M,30AWG,RoHS External mini SAS HD to external mini SAS HD cable 28AWG (3M)
Converter Tray	MCP-220-00118-0B	Black gen-5.5 tool-less hot-swap 3.5"-to-2.5" converter tray

SC846XE2C/E1C/A 4U 13-Slot Storage Chassis with BBP® Support

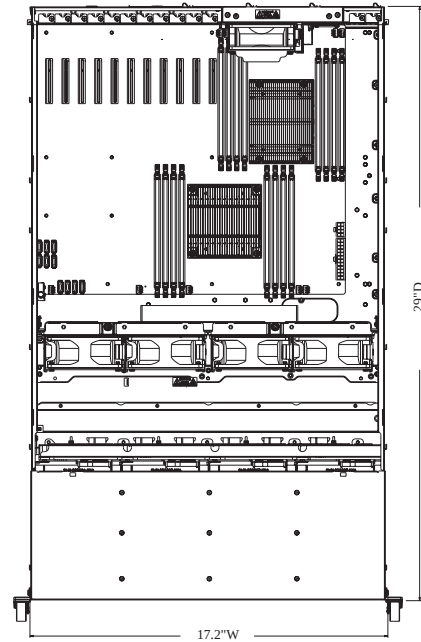
SAS 3.0 (12Gb/s), 24 HDD Storage in 4U w/ BBP® Support, Up to 13 expansion slots



SC846XE2C/E1C-R1K23B



SC846X Rear View (13 FH/FL slots), BBP® Support



Features

■ Black

- ✓ 100% cooling redundancy, supports up to 24 hot-swap SAS/SATA drive bays
- ✓ Redundant 1200W **Titanium Level** redundant cooling fans w/ adjustable air shroud
- ✓ E1C: Single **SAS3** (12Gb/s) expander backplane; E2C: Dual **SAS3** (12Gb/s) expander backplane
- ✓ MiniSAS HD (SFF 8643) connectivity (E1C/E2C)
- ✓ Can be configured as "JBOD or Headunit"
- ✓ Support two 1000W BBP
- ✓ Mini-iPass (SFF8087) connectivity (A model)

Specifications

Form Factor	4U chassis support for motherboard size - 13.68"x13" E-ATX, 12"x10" ATX, and 15.2" x 13.2"
CPU Support	Dual and Single Intel® Processors and AMD Processors
Expansion	Up to 13 full-height & full-length expansion slots
Drive Bays	24x 3.5" hot-swap HDD drive bays
Peripheral Drives	2x 2.5" hot-swap HDDs (optional); 2x 3.5" fixed or 4x 2.5" fixed HDDs (optional)
Cooling System	4x 92x38mm hot-swap cooling fans, 1x 80x32mm exhaust fans & air shroud
Front Panel LEDs	Power LED, Hard Drive Activity LED, 2 Network Activity LEDs, System Information LED & Power Fail LED
Front Panel Buttons	Power on/off button & system reset button
Dimensions	W x H x D: 17.2" (437mm) x 7" (178mm) x 29" (736.6mm) Package: 28" x 18" x 42" (Palletized design)
Rail	Extendable lengths 26.5" to 36.4"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration	

	Model	MB			PCI I/O	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
		X11	X10	X9							
New!	SC846XA-R1K23B		●	●	up to 13x FH/FL	24x 3.5" hot-swap SAS2/SATA3 drive bays with SES2	4x 7000rpm fans;	Redundant 1280W Titanium Level high-efficiency	4	83/100	75 lbs
New!	SC846XE1C-R1K23B		●	●	up to 13x FH/FL	24x 3.5" hot-swap SAS3 drive bays; optional rear 2x 2.5 HDD with SES-3, single SAS3 expander w/ mini SAS HD connector	2x 6700rpm fans	Redundant 1200W Titanium Level high-efficiency	4	83/100	75 lbs
New!	SC846XE2C-R1K23B		●	●	up to 13x FH/FL	24x 3.5" hot-swap SAS3 drive bays; optional rear 2x 2.5 HDD with SES-3, Dual SAS3 expander w/ mini SAS HD connectors		Redundant 1200W Titanium Level high-efficiency	4	83/100	75 lbs

Optional Kit	Model Part #	Description
Short Rail	MCP-290-00058-0N	Short rail set, quick release, 19" to 26.6"
Rear HDD Kit	MCP-220-82616-0N	12G rear 2.5"x2 HDD Drive Kit w/ Status LED (for 216B/826B/417B/846X/847B/226S/826S)
Battery Backup Power	PWS-1K03B-1R	DC 1KW Battery Backup Power

SC842XTQ/TQC/i *Embedded / IPC Short-Depth Enclosures with 11 PCI Slots*



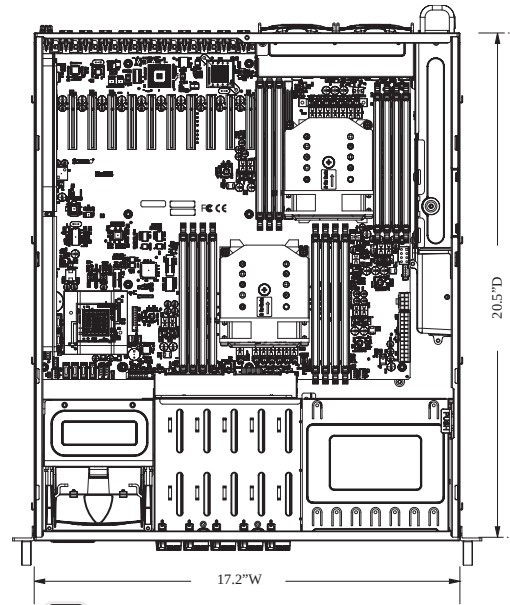
SC842XTQ-R606B



SC842TQ/I Rear View
(Single PS2 Power, 7 Slots)



SC842XTQ Rear View
(Redundant Power, 11 Slots,
w/ optional rear fans module for PCI slots)



■ Black

Features

- ✓ 500W/668W/865W single power supply or 600W/800W redundant power supplies
- ✓ 5x 3.5" hot-swap **SAS3/SATA3** HDD bays, 3x 5.25" drive bays
- ✓ 7x (SC842TQC/TQ/I) or 11x (SC842XTQC/XTQ) full-height expansion slots

Specifications

Form Factor	4U rackmount chassis 20.5" depth, optimized for 12"x13" E-ATX/ATX/Micro-ATX motherboards (SC842TQ/I); or, 15.2"x 13.2" motherboard (SC842XTQ)
CPU Support	Dual and Single Intel® Processors and AMD Processors
Expansion	7x (SC842TQC/i) or 11x (SC842XTQ) full-height expansion slots SC842TQC: 5x 3.5" Hotswap SAS3/SATA drive bays
Drive Bays	SC842TQ: 5x 3.5" Hotswap SAS/SATA drive bays SC842i: 5x 3.5" internal SAS/SATA drive bays
Peripheral Drives	2x front USB Ports (USB3 for TQC), 1x front COM port, 1x slim DVD-ROM drive bay, and 3x 5.25" drive bays
Power Supply	SC842TQ/I: 500W/668W/865W power supply with SMBus function; SC842XTQ: 600W redundant Platinum Level power supplies w/ PMBus
Cooling System	1x 9cm (5000rpm) cooling fan, 2x 8cm (9500/5000rpm) exhaust fans
Front Panel LEDs	Power LED, Hard Drive Activity LED, 2 Network Activity LEDs, System Information LED & Power Fail LED
Front Panel Buttons	Power On/Off button, system reset button
Dimensions	W x H x D: 17.2"x 7"x 20.5" (437 x 178 x 521mm) Package: 26.4"x 13.8"x 31.5" (670 x 350 x 800mm)
Rail (optional)	Extendable lengths: 26.5" to 36.4" (MCP-290-00057-0N); 19" to 26.6" (MCP-290-00058-0N)
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration	

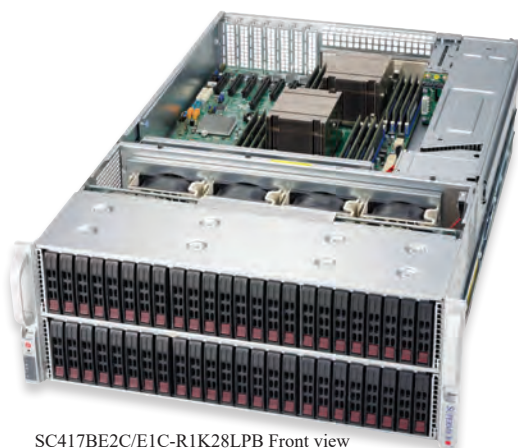
Model	X11	MB X10	PCI I/O X9	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
SC842TQ-865B		●		7x FH 5x 3.5" SAS/SATA	1x 90mm 5000rpm cooling fan 2x 80mm 5000rpm exhaust fans	865W w/ SMBus	6.5	70	46 lbs
SC842TQC-865B	●	●	●	7x FH 5x 3.5" SAS3/SATA	1x 90mm 5000rpm cooling fan 2x 80mm 9500rpm exhaust fans	865W w/ SMBus	6.5	70	46 lbs
SC842TQC-668B	●	●		7x FH 5x 3.5" SAS3/SATA	1x 90mm 5000rpm cooling fan 2x 80mm 9500rpm exhaust fans	668W Platinum Level	6	54	46 lbs
SC842i-500B		●	●	7x FH Internal 5x 3.5" SAS/SATA	1x 90mm 5000rpm cooling fan 2x 80mm 5000rpm exhaust fans	500W Bronze Level	3	41	46 lbs
SC842XTQ-R606B		●	●	11x FH 5x 3.5" SAS/SATA	1x 90mm 5000rpm cooling fan 2x 80mm 5000rpm exhaust fans	600W Redundant Platinum Level w/ PMBus	3A	50	46 lbs
SC842XTQC-R804B	●	●		11x FH 5x 3.5" SAS3/SATA	1x 90mm 5000rpm cooling fan 2x 80mm 9500rpm exhaust fans	600W Redundant Platinum Level w/ PMBus	3A	50	46 lbs

Optional Kit	Model Part #	Description
Rail	MCP-290-00057-0N MCP-290-00058-0N	Quick-release outer rail for 4U (26.5"~36.4") Quick-release outer rail for 4U (19"~26.6")
LCD Kit	MCP-220-00095-0B	5.25" USB LCD Kit
Add-on Card Holder (7 Slots)	MCP-420-84202-0N	Add-on card holder (7 slots) for SC842TQ/I
Add-on Card Holder (11 Slots)	MCP-290-74702-0N	Add-on card holder (11 slots) for SC842XTQ
Rear Fan Kit 1	MCP-320-00046-0N-KIT	Rear Fan Kit (8.2Krpm fan) for SC747B/835X/836GH
Rear Fan Kit 2	MCP-320-00047-0N-KIT	Rear Fan Kit (5Krpm fan) for SC745B/835B/836BH
GPU/Coprocessor Power Adapter Cable	CBL-0153L	6pin GPU/Coprocessor Power Adapter Cable from PDB 2x big 4pin, 16cm
Drive Kits	MCP-220-81506-0N	12G 2.5-in Hot-swap Slim DVD Size Drive Kit with Status LED

SC417BE2C/E1C

4U Storage Server Chassis

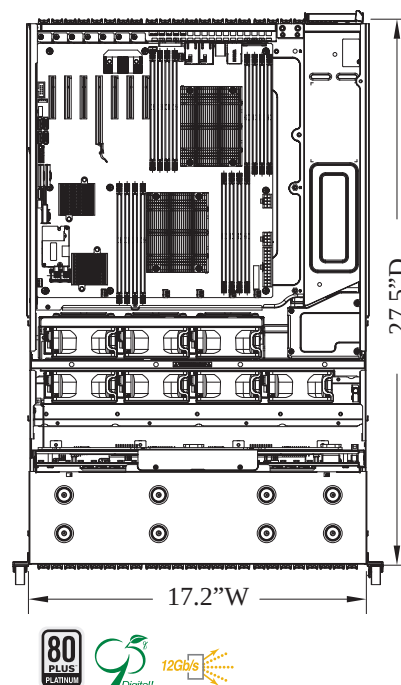
Double-Sided Storage®, Up to 72x 2.5" HDDs in 4U



SC417BE2C/E1C-R1K28LPB Front view
With 48x 2.5" HDDs



SC417BE2C/E1C-R1K28LPB Rear view
With 24x 2.5" HDDs



■ Black

Features

- ✓ SC417BE1C/E2C: **SAS3 (12Gb/s)** HDD backplane with MiniSAS HD connectors
- ✓ Extremely high-density 4U storage server chassis (saves 2U space)
- ✓ Maximum drives per enclosure: 72x (48 front + 24 rear) 2.5" hot-swap HDD bays for server chassis
- ✓ E1C: **SAS3 (12Gb/s)** single expander backplane; E2C: **SAS3 (12Gb/s)** dual expander backplanes
- ✓ 1280W **Platinum Level** redundant power supplies with PMBus
- ✓ Optimized thermal solution with 100% redundant cooling design

Specifications

Form Factor	4U Chassis supports max. motherboard size - 13.68" x 13", E-ATX
CPU Support	Single & Dual Intel® Processors and AMD Processors
Expansion	LPB: 7x low-profile expansion slots WB: 4 Full-height + 3x low-profile (WIO) expansion slots
Drive Bays	72x (48 front + 24 rear) 2.5" hot-swap HDD bays for server chassis
Power Supply	1280W Platinum Level redundant power supplies with PMBus
Cooling System	7x 8cm hot-swap cooling fans, Redundant Cooling
Front Panel LEDs	Power LED, HDD activity LED, 2 Network Activity LEDs and Unit Identification (UID) LED, System Information LED
Front Panel Buttons	Power On/Off button, system reset button, UID button
Dimensions	W x H x D: 17.2" x 7" x 27.5" (434 x 178 x 699mm) Package: 27.2" x 17.4" x 39.6" (691 x 442 x 1006mm)
Backplane	HDD Backplane supports 72x SAS/SAS2/ SAS3 hard drives (48x front + 24x rear)
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			PCI I/O	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
	X11	X10	X9							
SC417BE1C/E2C-R1K28LPB		●	●	7x LP	72x (48 front + 24 rear) 2.5" hot-swap SAS/SATA E1C: Single SAS3 expander w/ MiniSAS HD connector E2C: Dual SAS3 expander w/ MiniSAS HD connector	7x 8cm hot-swap redundant cooling	Redundant (1+1) 1280W Platinum Level power supplies with PMBus 1.2	4	92/116	80 lbs
SC417BE1C/E2C-R1K28WB		●	●	4x FH + 3x LP				4	92/116	80 lbs
Optional Kit		PCI I/O			Description					
Rear HDD Kit		MCP-220-82616-0N			12G rear 2.5"x2 HDD Drive Kit w/ Status LED (for 216B/826B/417B/846X/847B/226S/826S)					

SC417JBOD

4U Double-Sided JBOD Storage Chassis

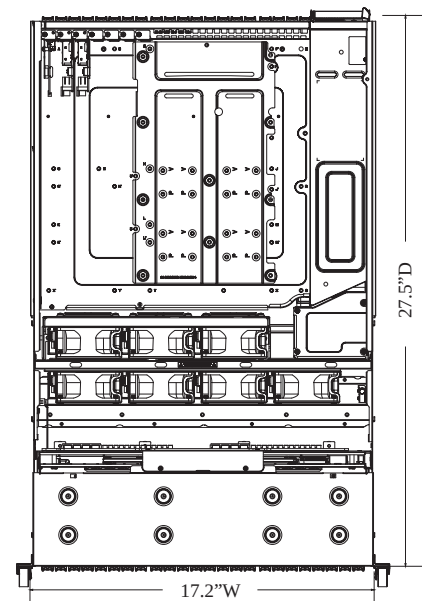
JBOD Double-Sided Storage®, Up to 72x 2.5" HDDs in 4U. Ready to Deploy.



Front View - 48x 2.5" HDDs



Rear View - 24x 2.5" HDDs



Features

■ Black

- ✓ Extremely high-density 4U storage server chassis
- ✓ Maximum drives per enclosure: 72x (48 front + 24 rear) 2.5" hot-swap HDD bays for server chassis
- ✓ EIC: SAS3 (12Gb/s) single expander backplane; E2C: SAS3 (12Gb/s) dual expander backplanes
- ✓ 1200W Titanium Level (1+1) redundant power supplies with PMBus 5. Optimized thermal solution with 100% redundant cooling design

Specifications

Form Factor	4U JBOD storage chassis
Drive Bays	72x (48 front + 24 rear) 2.5" hot-swap HDD bays for server chassis
Power Supply	Redundant 1U 1200W / 1000W Titanium Level Power Supply W/PMBus
Cooling System	7x 8cm hot-swap redundant PWM cooling fans
Front Panel LEDs	1 Network Activity LEDs, Fan Fail/System Over Heat LED, Power Status LED
Front Panel Buttons	Power On/Off button; System Reset Button; Unit Identification (UID) button
Dimensions	W x H x D: 17.2" (437mm) x 7" (178mm) x 27.5" (699mm); Package: 27.2" x 17.4" x 39.6" (691 x 442 x 1006mm)
Backplane	Dual/single SAS3 (12Gb/s) expander backplane, with Broadcom® SAS3 expander, support 24x 2.5" SAS3/SATA3 drives, with 8x mini-SAS3 HD connectors, 3x backplanes (2x Front and 1x Rear)
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

Model	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
SC417BE1C-R1K23JBOD	72x (48 front + 24 rear) SAS3 2.5" hot-swap drive bays; Single SAS3 expander with 8x mini-SAS3 HD connectors, 3x backplanes (2x Front and 1x Rear)	7x 8cm hot-swap redundant cooling	Redundant (1+1) 1200W / 1000W Titanium Level power supply with PMBus	4	100A	80 lbs
SC417BE2C-R1K23JBOD	72x (48 front + 24 rear) SAS3 2.5" hot-swap drive bays; Dual SAS3 expander with 8x mini-SAS3 HD connectors, 3x backplanes (2x Front and 1x Rear)	7x 8cm hot-swap redundant cooling	Redundant (1+1) 1200W / 1000W Titanium Level power supply with PMBus	4	100A	80 lbs
Optional Kit	Model Part #	Description				
Cables	CBL-SAST-0573 CBL-SAST-0690 CBL-SAST-0677	External mini SAS HD to external mini SAS HD cable 28AWG (1M) 2m external Mini SAS HD to external mini SAS HD.28AWG,RoHS/REACH 3m external Mini SAS HD to external mini SAS HD.28AWG,RoHS/REACH				

SC748TQ

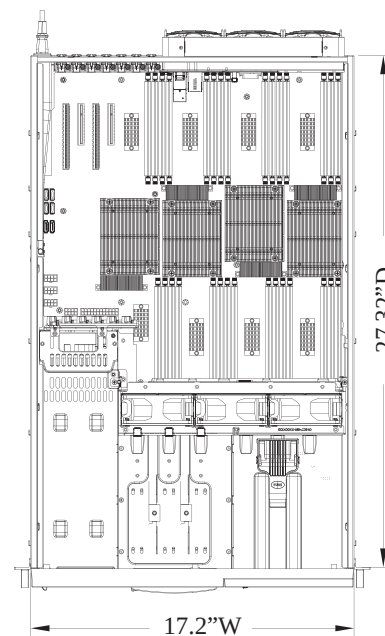
4U Tower/Rackmount High-End Quad-Processor Chassis



SC748TQ-R1K43B



SC748TQ-R1K43B
(Rear View)



■ Black

Features

- ✓ Expandable hot-swap drive bays, 7 expansion slots
- ✓ 1400W **Platinum Level** / 1400W **Gold Level** (1+1) redundant high-efficiency power supply (optional 2+1 redundant)

Specifications

Form Factor	4U/Tower chassis support for Quad-Processor motherboard max. size - 16.48" x 14.3"; 16.4" x 16.79"		
CPU support	Quad Intel® processors and AMD processors		
Expansion	7 full-height & full-length expansion slots		
Peripheral Drives	2 front USB ports		
Drive Bays	5x hot-swap SAS/SATA drive bays & 3x 5.25" drive bays or optional CSE-M35TQ mobile rack support		
Cooling System	3x 9cm hot-swap cooling fans & 3x 8cm exhaust fans		
Front Panel LEDs	Power LED, hard drive activity LED, 2 network activity LEDs, system information LED & power fail LED		
Front Panel Buttons	Power On/Off button & System Reset button		
Dimensions	W x H x D: 18.3"(467mm) x 7"(178mm) x 28.4" (721mm) (w/ workstation top cover and feet) W x H x D: 17.2"(437mm) x 7"(178mm) x 27.32" (694mm) (rackmount) Package: 38.4" x 26.6" x 13.8"		
Rail (optional)	26.5" to 36.4" (MCP-290-00059-0B)		
Temperature	Operating: 5° ~ 35° C (41° to 95° F) Non-operating: -40° ~ 70° C (-40° to 158° F)		
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing		

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB			Drive	Power Supply	+5Vsb	+12V	Gross Weight
	X11	X10	X9					
SC748TQ-R1K43B		●	●	5x 3.5" SAS / SATA Hard Drive Backplane	1400W Platinum Level redundant high-efficiency w/I ² C	6	100/117	72 lbs
SC748TQ-R1400B		●	●	5x 3.5" SAS / SATA Hard Drive Backplane	1400W Gold Level redundant high-efficiency w/I ² C	6	100/117	72 lbs

Optional Kit	Model Part #	Description
Mobile Rack	CSE-M35TQ CSE-M28SAB-OEM	SATA Mobile Rack 3x 5.25" Openings to 5x 3.5" Drives SAS/SATA Mobile Rack 2x 5.25" Openings to 8x 2.5" Drives
Mounting Rails	MCP-290-00059-0B	4U Chassis Rail Kit (Includes Side Handles) for Rev. K above Chassis
Short Rail	MCP-290-00058-0N	19"~26.6" for Rev. K above chassis

Up to 11 PCI-E FH/FL Expansion Slots, or
4 Double-Width GPUs + 2 FH/FL & 1 FH/HL I/O Cards



SC747BTQ-R2K04B



SC747BTQ rear view
(11 FH/FL slots
w/ optional rear fan module
for PCI slots)

Features

■ Black

- ✓ 8x 3.5" SAS/SATA Backplane for Hot-Swappable Drives (Support SES2)
- ✓ 11x Full-Height, Full-Length Expansion Slots Optimized for 4x Double Width GPU Solution
- ✓ Front HDD Door Lock & Side Panel Intrusion Switch
- ✓ Front I/O Ports: 2x USB 3.0
- ✓ 2x Rear Additional 80mm PWM Fans & 4x Middle Lower 92mm PWM Fans
- ✓ 4U / Full Tower Chassis Supports max. Motherboard, Sizes – E-ATX 15.2" x 13.2"/ ATX/Micro ATX
- ✓ 2000W Redundant Titanium Level Certified High-Efficiency Power Supply
- ✓ 3x 5.25" External HDD Drive Bays & 8x 3.5" Hot-Swappable HDD Drives

Specifications

Form Factor	4U tower/rackmount chassis - supports for maximum motherboard sizes: 15.2" x 13.2"
CPU Support	Dual and Single Intel® Processors and AMD Processors
Expansion	SC747TQ/BTQ: 11x full-height, full-length expansion slots; SC747TG: 9x full-height, full-length expansion slots
Peripheral Drives	1x 90 degree rotatable drive cage; 3x standard 5.25" drive bays; 1x 3.5" internal fixed drive bay
Power Supply	2000W Redundant Titanium Level Power Supply W/PMbus
Drive bays	8x 3.5" hot-swap SAS/SATA drive bay with SGPIO
Cooling System	2x 80mm hot-swap PWM Fans; 4x 92mm hot-swap fans
Front Panel LEDs	2 Network Activity LEDs
Front Panel Buttons	Power On/Off button
Backplane	8-port Tower/4U TQ (W/ AMI 9072) backplane, support up to 8x 3.5-inch SAS/SATA HDD/SSD
Dimensions	W x H x D: 7" (178mm) x 18.1" (460mm) x 26.5" (673mm) Package: 27.2" (691mm) x 13" (330mm) x 38.2" (970mm)
Rail	Extendable length of 26.5" to 36.4"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing
● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration	

Model	X11	MB X10	X9	MB Supported	Drive	Cooling Fan	Power	+5VSB	+12V	Gross Weight
New! SC747BTQ-R2K04B	●	●		Up to 15.2" x 13.2"	8x 3.5" hot-swap SAS/SATA drive bay with SGPIO	2x 80mm Hot-swap PWM Fans 4x 92mm hot-swap fans	2000W Redundant Titanium Level Power Supply W/PMbus	1	166.7A	62 lbs

Optional Kit	Model Part #	Description
Rail	MCP-290-00059-0B	26.5
Short Rail	MCP-290-00058-0N	Short rail set, quick release, 19.6"~26.9"; Extendable Length
Cable	CBL-0153L	6PIN GRAPHIC CARD POWER CABLE, PB FREE
LCD	MCP-220-00095-0B	Black 5.25 LCD tray wo rail, support 1x 3.5 HDD
Add-on Card Holder (11 slots)	MCP-290-74702-0N	GPU Card Holder (11 slots) for SC747TQ, SC842
Rear Fan Kit	MCP-320-00046-0N-KIT	Rear fan kit (8.2K RPM fan) for SC747B, 835X, 836BH
GPU/Add-on Card Dummy	MCP-240-00096-0N	SC747B GPU / Add-on Card Dummy Assembly (2 Slots)-Single Pack

SC745BTQ/BAC

4U/Tower High-Performance Workstation/Server Chassis



SC745BTQ/BAC



Rear view
(7 FH/FL Expansion Slots)

Features

■ Black

- ✓ 8x 3.5"/2.5" SAS/SATA Backplane for Hot-Swappable Drives
- ✓ Front HDD Door Lock & Side Panel Intrusion Switch
- ✓ Front I/O Ports: 2x USB 3.0
- ✓ 3x Middle 8cm (5000 rpm) PWM Fans & 2x 8cm (5000 rpm) PWM Fans:
-SQ: Whisper-Quiet (<27dB) , 2x 8cm (2800 rpm) PWM Fans & 1x 9cm (2400 rpm) PWM Fans
- ✓ 4U / Full Tower Chassis Supports max. Motherboard, Sizes E-ATX 13.68" x 13" ATX/Micro ATX
- ✓ 1230W/920W Redundant Platinum Level Certified High-Efficiency Class-B Power Supply
- ✓ 3x 5.25" External HDD Drive Bays & 8x 3.5"/2.5" Hot-Swappable HDD Drives

Specifications

Form Factor	4U chassis supports motherboard size up to E-ATX 13.68" x 13"
CPU Support	Dual and Single Intel® Processors and AMD Processors
Expansion	7 tool-less full-height & full-length expansion slots
Peripheral Drives	1x 3.5" internal fixed drive bay; 2x standard 5.25" drive bays -SQ: 3x standard 5.25" drive bay
Drive bays	8x 3.5"/2.5" hot-swap SAS drive bay with SES3
Cooling System	3x 8cm high-performance PWM fans + 2x 8cm hot-swap exhaust fans & air shroud -SQ: 2x 2800 RPM fans + 1x 2700 RPM fan
Front Panel LEDs	2 Network Activity LEDs, Fan Fail/System Over Heat LED, HDD activity LED, Power Status LED
Front Panel Buttons	Power on/off button & system reset button
Backplane	743 SAS BACKPLANE W/AMI MG9072
Dimensions	W x H x D: 7" (178mm) x 17.8" (452mm) x 25.5" (647mm) Package: 24.6" (625mm) x 14" (356mm) x 31.3" (795mm)
Rail	Extendable lengths: MCP-290-00052-0N-BULK - 25.6" to 33.05"
Temperature	Operating: 5° ~ 35°C (41° to 95°F) Non-operating: -40° ~ 70°C (-40° to 158°F)
Humidity	Operating: 8 ~ 90% non-condensing Non-operating: 5 ~ 95% non-condensing

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

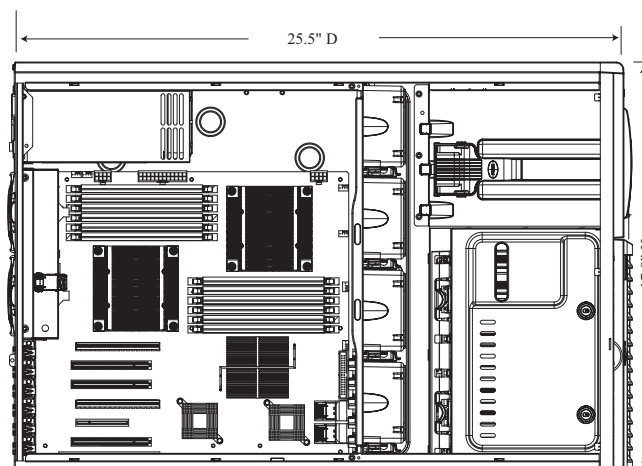
Model	MB				Drive Bays	Cooling Fan	Power	+5VSB	+12V	Gross Weight
	X12	X11	X10	X9						
SC745BTQ-R920B	●	●	●		8 SAS/SATA HDD with SES3	3x 8cm PWM fans 2x 8cm hot-swap exhaust fans & air shroud	Redundant 920W Platinum Level	4A	75A	64 lbs
SC745BAC-R1K23B	●	●			8 SAS/SATA HDD with SES3	2x 2800rpm fans 1x 2700rpm fan	Redundant 1230W Platinum Level	4	100A	62 lbs
SC745BAC-R1K23B-SQ	●	●			8 SAS/SATA HDD with SES3	2x 2800 RPM fans 1x 2700 RPM fan	Redundant 1230W Platinum Level	4	106.7A	62 lbs

Optional Kit	Model Part #	Description
Mounting Rail	CSE-PT26L-(B)	4U Chassis Rail Kit (Includes Side Handles) (B = Black)
LCD	MCP-220-00095-0B	5.25" USB LCD Kit
Add-on Card Dummy	MCP-240-00096-0N	GPU/Add-on Card Dummy Assembly (2 slots) - single pack
Cable	CBL-0153L	6pin GPU Power Adapter Cable from PDB 2x big 4pin, 16cm
Cable Management Arm	MCP-290-00073-0N	Supermicro Cable Management Arm for 2U, 3U and 4U chassis (Extendable Length: 70mm to 830mm)
Rear Exhaust Fan	MCP-320-00046-0N-KIT	Rear fan kit (8.2K RPM fan) for SC747B / 835X / 836BH
Rear Exhaust Fan	MCP-320-00047-0N-KIT	Rear fan kit (5K RPM fan) for SC745B / 835X / 836BH
Peripheral Drive(s)	DVM-LITE-DVDRW24-HBT	BLACK LITE-ON 5.25" HH 24X DVD-RW SATA DRIVE PBF
HDD Tray Converter	MCP-220-00080-0B	Adaptor HDD carrier to install 2.5" HDD in 3.5" HDD tray

Low-noise fan control



SC743AC-1200B-SQ



SC743TQ-1200B-SQ



SC743TQ-1200B-SQ

Features

■ Black

- ✓ 8x hot-swap HDD drive bays, 3x 5.25" drive cage with 90-degree rotatable module, 7 tool-less expansion slots & power supply with low-noise fan
- ✓ 1200W/668W **Platinum Level** high efficiency power supply and Whisper-quiet performance at **27dB** with 2x front USB 3.0 ports
- ✓ Rackmount and tower convertible; 90° rotatable 5.25" drive module

Specifications

Form Factor	4U chassis support for max. motherboard size 12" x 13" E-ATX and ATX
CPU support	Dual and Single Intel® processors and AMD processors
Expansion	7 tool-less full-height & full-length expansion slots
Drive Bays	8x 3.5"/2.5" SAS3/SATA3 backplane for hot-swappable drives
Peripheral Drives	2x Front USB 3.0 ports; 3x 5.25" drive bays, 90-degree rotatable module
Front Panel LEDs	Power LED, Hard Drive Activity LED, 2 Network Activity LEDs & System Information LED & Power Fail LED
Front Panel Buttons	Power On/Off button & System Reset button
Dimensions	W x H x D: 17.8"(452mm) x 7"(178mm) x 25.5" (648mm) (w/ workstation top cover) W x H x D: 16.65"(423mm) x 7"(178mm) x 25.5" (648mm) (rackmount) Package: 24.6"(625mm) x 14"(356mm) x 31.3"(795mm)
Rail (optional)	CSE-PT26L-(B) Extendable lengths 26" to 35.9"
Temperature	Operating: 5° ~ 35° C (41° to 95° F) Non-operating: -40° ~ 70° C (-40° to 158° F)
Humidity	Operating: 8 - 90% non-condensing Non-operating: 5 - 95% non-condensing

● Optimized ● Compatible ● Optimized low-power configuration ● Compatible low-power configuration

Model	MB				Drive	Cooling System	Power Supply	+5VSB	+12V	Gross Weight
	X12	X11	X10	X9						
New! SC743TQ-903B-SQ				●	8x 3.5"/2.5" hot-swap SAS drive bay with SES3	2x 2800rpm fans 1x 2700rpm fan	900W Gold Level, 28dB	6.5A	A	56 lbs
New! SC743AC-1K26B-SQ	●	●	●	●	8 SAS/SATA 2x Front USB 3.0 Ports	2x 2800rpm fans 1x 2700rpm fan	1200W Platinum Level, 27dB	3	99A	56 lbs
New! SC743AC-668B	●	●	●	●	8 SAS/SATA 2x Front USB 3.0 Ports	2x 2800rpm fans 1x 2700rpm fan	668W Platinum Level	4	54	55 lbs

Optional Kit	Model Part #	Description
Mounting Rails	CSE-PT26L CSE-PT26L-B	4U Chassis Rail Kit (includes Side Handles), extendable length 26" to 35.9" (CSE-PT26L w/ white side handles; CSE-PT26L-B w/ black side handles)
LCD Kit	MCP-220-00095-0B	5.25" USB LCD Kit

X12 AIOM Networking Cards

New Supermicro Advanced I/O Module (AIOM) Cards Provide I/O Flexibility with OCP Superset

Optimized Shared Resources for up to 50% Reduction in Power and Cooling TCO



Model	AOC-AG-i4SM	AOC-AG-i2M	AOC-AG-i4M	AOC-ATG-i2TM	AOC-ATG-i2SM	AOC-ATG-i4SM
Description	Quad-Port GbE	Dual-Port GbE	Quad-Port GbE	Dual-Port 10GbE	Dual-Port 10GbE	Quad-Port 10GbE
Port	4x SFP	2xRJ45	4xRJ45	2x RJ45	2x SFP+	4x SFP+
Speed	1Gbps	1Gbps	1Gbps	10Gbps	10Gbps	10Gbps
Controller	Intel® i350-AM4	Intel® i350-AM2	Intel® i350-AM4	Intel® X550-AT2	Intel® X710-BM2	Intel® XL710-BM1
PCI-E	PCI-E 2.1 x4	PCI-E 2.1 x4	PCI-E 2.1 x4	PCI-E 3.0 x4	PCI-E 3.0 x8	PCI-E 3.0 x8
Power	4.4W	3.7W	4.4W	13W	6.2W	7W
Status	Released	Released	Released	Released	Q2 2021	Q2 2021

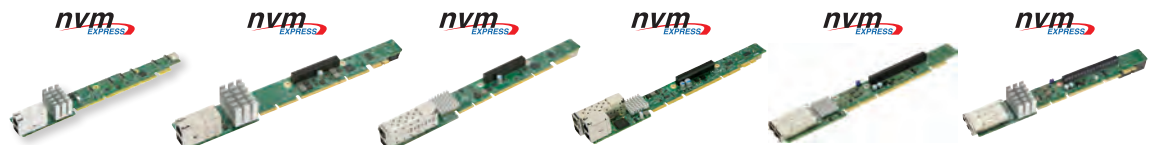


Model	AOC-ATG-i2T2SM	AOC-ATGC-i2TM	AOC-A25G-b2SM	AOC-AH25G-m2S2TM	AOC-A25G-m2SM	AOC-A100G-b2CM	AOC-A100G-m2CM
Description	Quad-Port 10GbE	Dual-Port 10GbE	Dual-Port 25GbE	2-Port25GbE & 2-Port 10GbE	Dual-Port 25GbE	Dual-Port 100GbE	Dual-Port 100GbE
Port	2x RJ45 2x SFP+	2x RJ45	2x SFP28	2x SFP28 2x RJ45	2x SFP28	2x QSFP28	2x QSFP28
Speed	10Gbps	10Gbps	25Gbps	25Gbps / 10Gbps	25Gbps	100Gbps	100Gbps
Controller	Intel® X710-TM4	Intel® X710-AT2	Broadcom® BCM57414	Mellanox® ConnectX-4 Lx EN Intel® X550-AT2	Mellanox®CX-6 LX	Broadcom® BCM57508	Mellanox® ConnectX-6 DX
PCI-E	PCI-E 3.0 x8	PCI-E 3.0 x8	PCI-E 3.0 x8	PCI-E 3.0 x8 PCI-E 3.0 x4	PCI-E 4.0/3.0 x8	PCI-E 4.0 x16	PCI-E 4.0 x16
Power	10W	10W	7.7W	25W	12.5W	20W	20W
Status	Released	Q2 2021	Released	Released	Q2 2021	Q2 2021	Q2 2021

Ultra Networking Riser Cards



Model	AOC-UR-i4G	AOC-URN4-b2TS	AOC-UR-i4XT	AOC-UR-i2XT	AOC-URN2-i4XT	AOC-URN4-b2XT
Form Factor	1U Ultra Riser	1U Ultra Riser	1U Ultra Riser	1U Ultra Riser	1U Ultra Riser	1U Ultra Riser
Controller Type	GbE	25GbE	10GBase-T	10GBase-T	10GBase-T	10GBase-T
Chipset	Intel® i350	Broadcom® BCM57414	Intel® X540	Intel® X540	Intel® X540	Broadcom BCM57416
Port #	4	2	4	2	4	2
Connector	RJ45	SFP28	RJ45	RJ45	RJ45	RJ45
PCI-E Slot	1x PCI-E 3.0 x8 (internal)	1x PCI-E 3.0 x16 (internal)	1x PCI-E 3.0 x8 (internal)	1x PCI-E 3.0 x8 (internal)	1x PCI-E 3.0 x8 (internal)	1x PCI-E 3.0 x16 (internal)
NVMe Ports	0	4	0	0	2	4
Compatible Motherboards	X11DPU, X10DRU-i+, X10DRU-X	X11DPU	X10DRU-i+, X10DRU-X	X11DPU, X10DRU-i+, X10DRU-X	X10DRU-i+, X10DRU-X	X11DPU
Compatible Systems	SYS-1029U-TR4, SYS-1029U-E1CR4, SYS-6019U-TR4, SYS-1028U-TR4+, SYS-1028U-E1CR4+	TBD	SYS-1028U-TR4T+, SYS-6018U-TR4T+	SYS-1029U-TRT, SYS-1029U-E1CRT, SYS-6019U-TRT, SYS-6019U-TN4RT, SYS-1028U-TRT+, SYS-6018U-TRT+	SYS-1028U-TNR4T+	TBD



Model	AOC-URN6-i2XT	AOC-URN2-i2XT	AOC-URN2-i2XS	AOC-URN2-i4GX5	AOC-URN4-m2TS	AOC-URN4-i2TS
Form Factor	1U Ultra Riser	1U Ultra Riser	1U Ultra Riser	1U Ultra Riser	1U Ultra Riser	1U Ultra Riser
Controller Type	10GBase-T	10GBase-T	10G SFP+	GbE & 10G SFP+	25GbE	25GbE
Chipset	Intel® X540	Intel® X540	Intel® 82599ES	Intel® i350 & Intel® X710	Mellanox® ConnectX-4 Lx EN	Intel® XXV710
Port #	2	2	2	2+2	2	2
Connector	RJ45	RJ45	SFP+	RJ45 & SFP+	SFP28	SFP28
PCI-E Slot	N/A	1x PCI-E 3.0 x8 (internal)	1x PCI-E 3.0 x8 (internal)	1x PCI-E 3.0 x8 (internal)	1x PCI-E 3.0 x16 (internal)	1x PCI-E 3.0 x16 (internal)
NVMe Ports	6	2	2	2	4	4
Compatible Motherboards	X11DPU, X10DRU-i+	X10DRU-i+, X10DRU-X	X11DPU, X10DRU-i+, X10DRU-X	X11DPU, X10DRU-i+	X11DPU, X10DRU-i+	X11DPU
Compatible Systems	SYS-1029U-TN10RT, SYS-1029U-TN10RT+	SYS-1028U-TNRT+	SYS-1029U-TRTP, SYS-1029U-E1CRTP, SYS-6019U-TRTP, SYS-6018U-TRTP+, SYS-1028U-TNRT+	SYS-1029U-TRTP2, SYS-1029U-E1CRTP2, SYS-6019U-TRTP2, SYS-1028U-E1CRTP+	SYS-1029U-TN-20R25M, SYS-1029U-TR25M, SYS-1029U-E1CR25M, SYS-6019U-TR25M	TBD

Ultra Networking Riser Cards



Model	AOC-2UR66-i4XTF	AOC-2UR68-i4G	AOC-2UR6-i4XT	AOC-2UR66-i4G	AOC-2UR68-i2XT
Form Factor	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser
Controller Type	10GBase-T	GbE	10GBase-T	GbE	10GBase-T
Chipset	Intel® XL710	Intel® i350	Intel® X540	Intel® i350	Intel® X540
Port #	4	4	4	4	2
Connector	RJ45	RJ45	RJ45	RJ45	RJ45
PCI-E Slot	2x PCI-E 3.0 x16	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x8 (in x16) 1x PCI-E 3.0 x16	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x16	2x PCI-E 3.0 x16	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x8 (in x16) 1x PCI-E 3.0 x16
NVMe Ports	0	0	0	0	0
Compatible Motherboards	X11DPU, X10DRU-i+	X11DPU, X10DRU-i+ X10DRU-X	X10DRU-i+ X10DRU-X	X11DPU, X10DRU-i+, X10DRU-X	X11DPU, X10DRU-i+, X10DRU-X
Compatible Systems	SYS-2029U-E1CR4T SYS-2029U-TR4T SYS-6029U-E1CR4T SYS-6029U-TR4T	SYS-2029U-TR4, SYS-2029U-E1CR4, SYS-6029U-TR4, SYS-6029U-E1CR4, SYS-2029U-TR4+ SYS-6028U-TR4+ SYS-2028U-TR4+ SYS-6028U-TR4+	SYS-2028U-TR4T+ SYS-6028U-TR4T+	SYS-2048U-RTR4	SYS-2029U-TRT, SYS-2029U-E1CRT, SYS-6029U-TRT, SYS-6029U-E1CRT, SYS-6028U-TRT+ SYS-2028U-TRT+ SYS-2048U-RTR4

[†] Available as integrated solutions with Supermicro servers.



Model	AOC-2URN4-i4XT	AOC-2UR8N4-i2XT	AOC-2UR68-i2XS	AOC-2UR6N4-i4XT	AOC-2UR68-m2TS	AOC-2UR68-b2TS
Form Factor	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser
Controller Type	10GBase-T	10GBase-T	10G SFP+	10GBase-T	25GbE	25GbE
Chipset	Intel® X540	Intel® X540	Intel® 82599ES	Intel® X550	Mellanox® ConnectX-4 Lx EN	Broadcom® BCM57414
Port #	4	2	2	4	2	2
Connector	RJ45	RJ45	SFP+	RJ45	SFP28	SFP28
PCI-E Slot	1x PCI-E 3.0 x8 (internal)	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x8 (in x16)	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x8 (in x16) 1x PCI-E 3.0 x16	1x PCI-E 3.0 x16	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x8 (in x16) 1x PCI-E 3.0 x16	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x8 (in x16) 1x PCI-E 3.0 x16
NVMe Ports	4	4	0	4	0	0
Compatible Motherboards	X10DRU-i+, X10DRU-X	X10DRU-i+, X10DRU-X	X11DPU, X10DRU-i+, X10DRU-X	X11DPU, X10DRU-i+	X11DPU, X10DRU-i+	X11DPU
Compatible Systems	SYS-2028U-TNR4T+ SYS-6028U-TNR4T+ SYS-2028U-E1CNR4T+ SYS-6028U-E1CNR4T+	SYS-2028U-TNRT+ SYS-6028U-TNRT+ SYS-2028U-E1CNRT+ SYS-6028U-E1CNRT+	SYS-2029U-TRTP, SYS-2029U-E1CRTP, SYS-6029U-TRTP, SYS-6029U-E1CRTP, SYS-6028U-TRTP+ SYS-2028U-TRTP+ SYS-2048U-RTR4	SYS-2028U-T24RT+	SYS-2029U-TN20R25M SYS-2029U-TR25M SYS-2029U-E1C25M SYS-6029U-TR25M	TBD

[†] Available as integrated solutions with Supermicro servers.

Network Adapters

Faster, More Flexible Networking

With outstanding performance, high power efficiency and excellent value, Supermicro's network adapters can help improve network throughput and application performance through features that maximize bandwidth and offload CPU resources. From 100G, 50G, 40G, 25G Ethernet to InfiniBand technologies, multi-port connectivity, in SIOM, Ultra, microLP and standard form factors, Supermicro's network adapters are optimized for the most demanding multi-core computing systems.

100G Controllers



Model	AOC-S100G-b1C	AOC-SHFI-i1C	AOC-S100G-m2C
Type	Standard Low-profile	Standard Low Profile	Standard Low-Profile
Description	Single-port 100GbE	Single Port 100Gbps Intel® Omni Path Host Fabric Interface Adapter	Dual-port 100GbE
Interface	PCI-E 3.0 x16	PCI-E 3.0 x16	PCI-E 3.0 x16
Port	1 QSFP28	1 QSFP28	2 QSFP28
Speed	100Gb/port	100Gb/port	100Gb/port
Controller	Broadcom® BCM57454	Intel® OPA HFI ASIC	Mellanox® ConnectX-4 EN
Dimension (LxW) (without end brackets)	6.6" x 2.713" (16.76 x 6.89cm)	6.6" x 2.713" (16.76 x 6.89cm)	6.6" x 2.713" (16.76 x 6.89cm)
Compatible Motherboards	All motherboards with a PCI-E x16 slot	All motherboards with a PCI-E x16 slot	All motherboards with a PCI-E x16 slot
Compatible Servers	All Servers with a PCI-E x16 slot	All Servers with a PCI-E x16 slot	All Servers with a PCI-E x16 slot

10GbE Controllers



Model	AOC-STG-b2T	AOC-CTGS-i2T	AOC-STG-b4S	AOC-CTG-i2T	AOC-CTG-i2S	AOC-CTG-i1S
Type	Standard Low-profile	MicroLP	Standard Low-profile	MicroLP	MicroLP	MicroLP
Description	Dual-port 10GbE	MicroLP Dual-port 10GbE	Standard Low-profile 10GbE	MicroLP Dual-port 10GbE	Dual-port 10GbE	Single-port 10GbE
Interface	PCI-E 3.0 x8	PCI-E 3.0 x4	PCI-E x8	PCI-E 2.0 x8	PCI-E 2.0 x8	PCI-E 2.0 x8
Port	2 RJ45	2 RJ45	4 SFP+	2 RJ45	2 SFP+ ports / 2 USB ports	1 SFP+ port / 2 USB ports
Ethernet Speed	10Gb/port	10Gb/port	10Gb/port	10Gb/port	10Gb/port	10Gb/port
Controller	Broadcom® BCM57416	Intel® X550-AT2	Broadcom® BCM57840S	Intel® X540	Intel® 82599ES	Intel® 82599EN
Dimension (LxW) (without end brackets)	5.6" x 2.713" (14.224 x 6.89cm)	4.45" x 1.54" (11.3 x 3.9cm)	5.4" x 2.73" (13.7 x 6.9cm)	4.8" x 2.75" (12.32 x 7.0cm)	4.85" x 1.54" (12.3 x 3.9cm)	4.45" x 1.54" (11.3 x 3.9cm)
Compatible Motherboards	All MBs with a PCI-E x8 slot	X11SSE-F	All MBs with a PCI-E x8 slot	X9DRT-HF+, X9DRFR, X10DRFR, X10DRFR-N(T)	X9DRT-HF+, X9SRD-F, X9DRFR, X10DRFR, X10DRFR-N(T)	X9DRT-HF+, X9SRD-F, X9DRFR, X10DRFR, X10DRFR-N(T)
Compatible Servers	All servers with a PCI-E x8 slot	MicroCloud, 2U Twin2+, 2U Twin+ and FatTwin	All servers with a PCI-E x8 slot	2U Twin+, and FatTwin w/ 4-node only	MicroCloud, 2U Twin2+, 2U Twin+, and FatTwin	MicroCloud, 2U Twin2+, 2U Twin+, and FatTwin

25/1GbE Controllers & SFP+ Transceiver

25GbE

25GbE

25GbE

GbE

GbE

GbE

SFP+ Transceiver



Model	AOC-S25G-b2S	AOC-S25G-m2S	AOC-C25G-m1S	AOC-CG-i2	AOC-CGP-i2	AOC-PG-i2+*	AOC-E10GSPSR
Type	Standard LP	Standard LP	MicroLP	MicroLP	MicroLP	Proprietary	SFP+ Transceiver
Description	Dual-port 25GbE	Dual-port 25GbE	1U MicroLP Single-port 25GbE controller with 1x SFP28 port.	Dual-port GbE	Dual-port GbE	Low-profile Dual-port GbE	1000Base-SX / 10GBase-SR plug-in module
Interface	PCI-E x8	PCI-E 3.0 x8	PCI-E 3.0 x8	PCI-E x4	PCI-E x4	PCI-E 2.0 x4	Cabling Type: MMF 62.5/50 µm
Port	2 SFP28	2 SFP28	1 SFP28 ports	2 RJ45 ports	2 RJ45 ports	2 RJ45 ports	
Speed	25Gb/port	25Gb/port	25Gb/port (Ethernet)	1 Gb/port	1Gb/port	1 Gb/port	
Controller	Broadcom® BCM57414	Mellanox® ConnectX-4 LX	Mellanox® ConnectX-4 LX EN	Intel® 82580	Intel® i350	Intel® 82576EB	Compatible Add-on Cards: AOC-STG-i4S, AOC-STGN-i1S, AOC-STGN-i2S, AOC-STG-b4S, AOC-CTG-i1S, AOC-CTG-i2S, AOC-PTG-i1S, AOC-MTG-i4S, AOC-MTGN-i2S
Dimension (LxW) (without end brackets)	5.6" x 2.713" (14.224 x 6.89cm)	5.6" x 2.713" (14.224 x 6.89cm)	4.45" x 1.54" (11.3 x 3.9cm)	4.45" x 1.32" (11.3 x 3.35cm)	4.45" x 1.54" (11.3 x 3.9cm)	3.78" x 2.44" (9.6 x 6.2cm)	
Compatible Motherboards	All motherboards with a PCI-E x8 slot	All motherboards with a PCI-E x8 slot	X10DRFR	X9SCD-F	X9DRT-HF+, X9SRD-F, X9DRFR	X8DTU/-F (Require RSC-R1UU-E8PR)	
Compatible Servers	All servers with a PCI-E x8 slot	All servers with a PCI-E x8 slot	FatTwin MicroCloud	5037MC-H8TRF	MicroCloud, 2U Twin2+, 2U Twin+, and FatTwin	6016T-UF, 6016T-NTRF, 6016T-NTRF, 1026T-URF, 1026T-UF, 6016T-URF (Require RSC-R1UU-E8PR)	

* Standard form factor is available as integrated solution with Supermicro server and motherboards.

SIOM Network Adapters

SIOM Networking Adapters



Model	AOC-MH25G-m2S2T	AOC-M25G-m4S	AOC-M25G-i2S	AOC-MH25G-b2S2G	AOC-MGP-i2	AOC-MGP-i4	AOC-MTGN-i2S	AOC-MTG-i4S
Type	SIOM	SIOM	SIOM	SIOM	SIOM	SIOM	SIOM	SIOM
Description	Dual-port 25GbE & Dual-port 10GbE	Quad-port 25GbE	Dual-port 25GbE	Dual-port 25GbE	Dual-port GbE	Quad-port GbE	Dual-port 10GbE	Quad-port 10GbE
Port	2 SFP28 & 2 RJ45 ports	4 SFP28 ports	2 SFP28 ports	2 SFP28 ports 2 RJ45 ports	2 RJ45 ports	4 RJ45 ports	2 SFP+ ports	4 SFP+ ports
Speed	25Gb/port 10Gb/port	25Gb/port	25Gb/port	25Gb/port 1Gb/port	1Gb/port	1Gb/port	10Gb/port	10Gb/port
Controller	Mellanox® ConnectX-4 Lx EN Intel® X550	Mellanox® ConnectX-4 Lx EN	Intel® XXV710	Broadcom® BCM57414 Intel® i350	Intel® i350	Intel® i350	Intel® 82599ES	Intel® XL710
Dimension (LxW) (without end brackets)	3.622" x 3.428" (9.2 x 8.708cm)	3.428" x 3.622" (8.71 x 9.2cm)	3.428" x 3.622" (8.71 x 9.2cm)	3.428" x 3.622" (8.71 x 9.2cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)
Compatible Motherboards	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot
Compatible Servers	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot

SIOM Networking Adapters



Model	AOC-MTG-i2T	AOC-MTG-i4T	AOC-MTG-b2T	AOC-MHIBF-m2Q2G	AOC-MHIBF-m1Q2G	AOC-MHFI-i1C	AOC-MHIBE-m1CG
Type	SIOM	SIOM	SIOM	SIOM	SIOM	SIOM	SIOM
Description	Dual-port 10GbE	Quad-port 10GbE	Dual-port 10GbE	Dual-port IB FDR & Dual-port GbE	Single-port IB FDR & Dual-port GbE	Single-port Host Fabric Interface	Single-port InfiniBand EDR or 100GbE and Single-port GbE
Port	2 RJ45 ports	4 RJ45 ports	2 RJ45 ports	2 QSFP & 2 RJ45 ports	1 QSFP & 2 RJ45 ports	1 QSFP28 port	1 QSFP28 port 1 RJ45 port
Speed	10Gb/port	10Gb/port	10Gb/port	56Gb/port 1Gb/port	56Gb/port 1Gb/port	100Gb/port	100Gb/port 1Gb/port
Controller	Intel® X550	Intel® X550	Broadcom® BCM57416	Mellanox® ConnectX-3 Pro Intel® i350	Mellanox® ConnectX-3 Pro Intel® i350	Intel® Omni Path HFI ASIC	Mellanox® ConnectX-4 VPI Intel® i210
Dimension (LxW) (without end brackets)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.428" x 3.622" (8.71 x 9.2cm)
Compatible Motherboards	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® X11 Motherboards with SIOM slot
Compatible Servers	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® X11 Servers with SIOM slot

Storage Mezzanine Cards



Model	AOC-M3616	AOM-S3616-L-X11DSC	AOM-S3224-L	AOM-B3108-H8-B11	AOM-S3008M-L8	AOM-S3108M-H8L	AOM-S3108-H8	AOM-B3108-H8	AOM-S3108M-H8	AOM-S3008-L8-SB
Compatible MBs	X11DSN-TS	X11DSC+	X11DDW	B11DPT	X10DSC+	X10DSC+	X9DRW-CF31 X9DRW-CTF31 X9DRW-CTF31	B10DRC	X10DRW-i X10DRW-iN X10DRW-iT X10DDW-i X10DDW-iN	X10DRS
Features	SIOM Compatible PCI-E x16 interface 16 port external 12Gb/s per port	16 internal port (PCI-E x16) Controller IT Mode 12Gb/s SAS per port	24 internal ports 12Gb/s per port IT mode	8 internal ports 12Gb/s per port 8 SATA/SAS RAID 0,1,5,10 2 GB cache with battery protection BTR-TFM8G-LSICVM02	8 internal ports, 12Gb/s per port, 240 SATA/SAS drives, IT mode	8 internal ports, 12Gb/s per port, 240 SATA/SAS drives, RAID 0, 1,5,10,6,60 2 GB cache with protection BTR-TFM8G-CV3108-U1	8 internal ports, 12Gb/s per port, 16 SATA/SAS drives, RAID 0,1,5, 10,6,60 2 GB cache with protection BTR-TFM8G-BroadcomCVM02	8 internal ports, 12Gb/s per port, 8 SATA/SAS drives, RAID 0,1,5, 10,6,60 2 GB onboard cache with protection BTR-TFM8G-BroadcomCVM02	8 internal ports, 12Gb/s per port, 16 SATA/SAS drives, RAID 0,1,5,10,6,60 2 GB onboard cache with protection BTR-TFM8G-BroadcomCVM02	8 internal ports, 12Gb/s per port, 112 SATA/SAS drives, IR mode, RAID 0,1,5,10

HBA and SAS RAID Cards



Model	AOC-SLG2-2TM2	AOC-SLG2-2TM2-T	AOC-SLG3-4X4P	AOC-SHG3-4M2P	AOC-SLG3-2M2	AOC-SLG3-2E4T	AOC-SLG3-4E4T	AOC-SLG3-4E2P	AOC-SLG3-2E4	AOC-SLG3-2E4R	AOC-SLG3-4E4R
Compatible MBs	All	All	X11DDW-L X11DPT-B X11DPT-PS X11DPU	All	X10DRT-H, X10SRM-TF	All*	All*	All*	All	X10DRW-i, X10DRW-IT, X10DRH, X10DRL-CT	X10DSC+, X10SRW-F
Features	PCI-E 2.0 x2 low-profile card, Adjustable stand-off supporting two SATA3 M.2 form factors: 2280, 2242, RAID1, BMC-enabled management, User-visible LEDs for each SSD's Activity and Status	PCI-E 2.0 x2 low-profile card, 2x 7pin SATA connectors for two SATA3 drives, RAID1, Supports SGPIO for backplane drive status LED control, IPMI support for RAID monitoring	X16 quad-port external PCI-E switch, Low profile standard Gen3.0 PCI-E x16 for NVMe JBOD, 12.8 GB/s Performance	x8, quad M.2 SSD expansion switch sizes: 22x110mm; 22x80mm; 22x42mm	x8, dual M.2 SSD expansion card, supports multiple M.2 sizes: 22x110mm; 22x80mm; 22x60mm	x8, dual OCuLink port, PLX PCI-E Switch, SW hot-swap* * HW restrictions may apply	x16, quad OCuLink port, Re-Timer, hot-swap* * HW restrictions may apply	x8, quad OCuLink port, PLX PCI-E Switch, SW hot-swap* * HW restrictions may apply	x8, dual port, PLX hot-swap* * Requires backplane w/ U.2 connector	x8, dual port, re-driver (TI), hot-swap* * Requires backplane w/ U.2 connector	x16, quad port, re-driver (TI), hot-swap* * Requires backplane w/ U.2 connector



Model	AOC-S3616L-L16iT	AOC-S3216L-L16iT	AOC-S3108L-H8iR-16DD	AOC-S3108L-H8iR*	AOC-S3008L-L8e*	AOC-S3008L-L8i†	AOC-S2208L-H8iR†	AOC-S2308L-L8e†
Type	Low profile PCI-E 3.0 x16	Standard	Low profile PCI-E 3.0 x8	Standard	Standard	Standard	Standard	Standard
Controller/IOP	Broadcom® SAS 3616	Broadcom® SAS 3216	Broadcom® SAS 3108	Broadcom® SAS 3108	Broadcom® SAS 3008	Broadcom® SAS 3008	Broadcom® SAS 2208	Broadcom® SAS 2308
SAS Port	16 ports, 12Gb/s per port, 16 Internal, Low Profile, 1024 SATA/SAS Drives	16 ports, 12Gb/s per port, 16 Internal, Low Profile, 1024 SATA/SAS Drives	8 ports, 12Gb/s per port, 8 Internal, Low Profile, 16 SATA/SAS Drives	8 ports, 12Gb/s per port, 8 Internal, Low Profile, 240 SATA/SAS Drives	8 ports, 12Gb/s per port, 8 Internal, Low Profile, 122 SATA/SAS Drives	8 ports, 12Gb/s per port, 8 Internal, Low Profile, 63 SATA/SAS Drives	8 ports, 6Gb/s per port, 8 Internal, Low Profile, 240 SATA/SAS Drives	8 ports, 6Gb/s per port, 8 Internal, Low Profile, 122 SATA/SAS Drives
RAID	IT/HBA	IT/HBA	RAID 0,1,5,6,10,50,60	RAID 0,1,5,6,10,50,60	IT/HBA Mode	RAID 0,1,10	RAID 0,1,5,6,10,50,60	IT/HBA Mode
Onboard Cache	-	-	2GB DDR3 on-card cache Optional SuperCap: BTR-TFM8G-BroadcomCVM02. Installation kit PN = MCP-240-00127-0N	2GB DDR3 on-card cache Optional SuperCap: BTR-TFM8G-BroadcomCVM02. Installation kit PN = MCP-240-00127-0N	-	-	1GB DDR3 on-card cache w/ Battery Backup or SuperCap. Optional Battery Backup Unit: BTR-0022L-Broadcom00279 / MCP-450-00001-0N / Ambient Temp 45°C. SuperCap option: BTR-0024LH-Broadcom00297. Installation kit PN = MCP-240-00127-0N	-



Model	AOC-S2308L-L8i†	AOC-SAS2LP-H8iR†	AOC-SAS2LP-H8iR-16DD†	AOC-USAS2LP-H8iR*	AOC-USAS2-L8iR	AOC-USAS2-L8i	AOC-USAS2-L8E
Type	Standard	Standard	Standard	UIO	UIO	UIO	UIO
Controller/IOP	Broadcom® SAS 2308	Broadcom® SAS 2108	Broadcom® SAS 2108	Broadcom® SAS 2108	Broadcom® SAS 2008	Broadcom® SAS 2008	Broadcom® SAS 2008
SAS Port	8 ports, 6Gb/s per port, 8 Internal, Low Profile, 63 SATA/SAS Drives	8 ports, 6Gb/s per port, 8 Internal, Low Profile, 240 SATA/SAS Drives	8 ports, 6Gb/s per port, 8 Internal, Low Profile, 16 SATA/SAS Drives	8 ports, 6Gb/s per port, 8 Internal, Low Profile	8 ports, 6Gb/s per port, 8 Internal	8 ports, 6Gb/s per port, 8 Internal	8 ports, 6Gb/s per port, 8 Internal
RAID	RAID 0,1,10	RAID 0,1,5,6,10,50,60	RAID 0,1,5,6,10,50,60	RAID 0,1,5,6,10,50,60	RAID 0,1,5,10	RAID 0,1,10,1E	IT mode / HBA
Onboard Cache	-	512MB DDR2 on-card cache w/ Optional Battery Backup Unit: BTR-0023L-Broadcom00264	512MB DDR2 on-card cache w/ Optional Battery Backup Unit: BTR-0023L-Broadcom00264	512 MB DDR2 on-card cache w/ Optional Battery Backup Unit: BTR-0023L-Broadcom00264	-	-	-



Model	AOC-SAS2LP-H4iR**	AOC-SAS2LP-MV8	AOC-USAS-L8i**	AOC-USASLP-L8i**	AOC-USAS-L4i**	AOC-USAS-L4iR**	AOC-SASLP-MV8**
Type	Standard	Standard	UIO	UIO	UIO	UIO	Standard
Controller/IOP	Broadcom® SAS 2108	Marvel 9480 based	Broadcom® SAS 1068E	Broadcom® SAS 1068E	Broadcom® SAS 1068E	Broadcom® SAS 1068E	Marvell Hercules-2
SAS Port	8 ports, 6Gb/s per port, 4 Internal, 4 external, Low Profile, 240 SATA/SAS Drives	8 ports, 6Gb/s per port, 8 Internal, Low Profile	8 ports, 3Gb/s per port, 8 Internal	8 ports, 3Gb/s per port, 8 Internal, Low Profile	8 ports, 3Gb/s per port, 4 Internal, 4 External	8 ports, 3Gb/s per port, 4 Internal, 4 External	8 ports, 3Gb/s per port, 8 Internal, Low Profile
RAID	RAID 0,1,5,6,10,50,60	HBA	IT/HBA Mode	IT/HBA Mode	RAID 0,1,10	RAID 0,1,5,10	HBA only
Onboard Cache	512MB DDR2 on-card cache w/ battery w/ Optional Battery Backup Unit: BTR-0023L-Broadcom00264	-	-	-	-	-	-

* Applies to 2U low-profile, 3U and 4U chassis.

** EOLed

† Available as integrated solutions with Supermicro servers.

Riser Cards

1U GPU/Coprocessor (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup- port	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Sup- port	Gen3 Sup- port	Auto Detection
	RSC-G-A66-X1	1U GPU LHS	1 PCI-E x168 Oculink x8	2 PCI-E x16	Active	No	X11DGQ,	118GQPTS- R2K05P,	1029GQ-TVRT, 1029GQ-TXRT,	Yes	Yes	Yes	Yes
	RSC-GN2-66	1U GPU LHS	1 PCI-E x162 Oculink x8	2 PCI-E x16, 1 NVMe (Oculink x8)	Passive	No	X11DGQ,	118GQPTS-R2K05P,	1029GQ- TVRT, 1029GQ- TXRT,	Yes	Yes	Yes	Yes
	RSC-G-A6	1U GPU LHS	1 PCI-E x16	1 PCI-E x16	Active	No	X11DGQ,	118GQETS- R2K05P,	1029GQ-TNRT, 1029GQ-TRT,	Yes	Yes	Yes	Yes
	RSC-G-A66	1U GPU LHS	1 PCI-E x32	2 PCI-E x16	Active	No	X11DGQ, X11DPG- HGX2,	118GQETS- R2K05P, 1018G- R12KP,	1029GQ-TRT, 9029GP-TNVRT,	Yes	Yes	Yes	Yes
	RSC-GN2-A68	1U GPU LHS	1 PCI-E x32	2 PCI-E x16, 1 NVMe (Oculink x8)	Active	No	X11DGQ,	118GQETS- R2K05P,	1029GQ-TNRT, SYS-1029GQ- TXNRT	Yes	Yes	Yes	Yes
	RSC-G-A66-X	1U GPU LHS	1 Universal Slot (GPU)	2 PCI-E x16	Active	No	X10DRG-H, X10DRG-HT	N/A	N/A	Yes	Yes	Yes	Yes
	RSC-R1UG-2E8G	1U GPU LHS	Universal Slot (GPU)	2 PCI-E x8	Passive	No	X8DTG-DF	818G-1400, 818G-1400B, 818G-1K43B, 818G-R1400, 118G-1400B, 118G-1800B, 118G-1K43B	1026GT-TF-FM107, 1026GT- TF-FM109, 6016GT-TF- FM107, 6016GT-TF-FM109, 6016GT-TF-FM175, 1026GT- TF-FM105, 1026GT-TF-FM175	No	Yes	No	No

1U GPU/Coprocessor (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup- port	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Sup- port	Gen3 Sup- port	Auto Detection
	RSC-G-6	1U GPU LHS	1 PCI-E x16	1 PCI-E x16	Passive	Yes	X10DGQ	SC118GQE-R2K03P	1028GQ-TRT, 1028GQ-TR	Yes	Yes	Yes	Yes
	RSC-R1UG-E16-X9	1U GPU LHS	PCI-E x16	1 PCI-E x16	Passive	Yes	X9DRG-HF+	118GQ	1027GR-TRF+	Yes	Yes	No	No

1U GPU/Coprocessor (Right Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup- port	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Sup- port	Gen3 Sup- port	Auto Detection
	RSC-GR-A88	1U GPU RHS	SMC Proprietary	2 PCI-E x8	Active	No	X10DGQ	SC118GQE-R2K03P	1028GQ-TRT, 1028GQ-TR	No	Yes	Yes	Yes
	RSC-GR-6	1U GPU RHS	1 PCI-E x16	1 PCI-E x16	Passive	No	X10DGQ	SC118GQE-R2K03P	1028GQ-TRT, 1028GQ-TR	Yes	Yes	Yes	Yes
	RSC-R1UG-E16R-UP	1U GPU RHS	Universal Slot (GPU)	1 PCI-E x16	Passive	Yes	X9SRG-F	118G-1400B118G- 1800B118G-1K43B	1017GR-TF, 1017GR-TF-FM109, 1017GR- TF-FM175, 1017GR-TF-FM209, 1017GR- TF-FM275, 5017GR-TF, 5017GR-TF-FM109, 5017GR-TF-FM209, 5017GR-TF-FM275	No	Yes	Yes	Yes
	RSC-R1UG-E16R+II	1U GPU RHS	Universal Slot (GPU)	1 PCI-E x16	Passive	Yes	X9DRG-HF+II, X9DRG-HTF+II, X10DRG-H (T)	SC118GH	1027GR	Yes	Yes	Yes	Yes
	RSC-R1UG-E16AR+II	1U GPU RHS	Universal Slot (GPU)	1 PCI-E x16	Passive	Yes	X9DRG-HF+II, X9DRG-HTF+II, X10DRG-H (T)	SC118GH	1027GR-TR2 1027GR-TRT2+	Yes	Yes	Yes	Yes

1U GPU/Coprocessor (Right Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup- port	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Sup- port	Gen3 Sup- port	Auto Detection
	RSC-MLP-E8R	1U MLP RHS	PCI-E x8	1 PCI-E x8	Passive	Yes	X9SCE, X9SCE-F	SC 939H-R1K63B	AOM-CGP-42M, AOM-CIBF-M1M, AOM- CTG-115M	No	Yes	Yes	No

Riser Cards

1U DCO (Left Hand Side)

Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-D-6G4	1U DCO LHS	1 PCI-E x16	1 PCI-E x16	Passive	No	X12DDW-A6,	N/A	(Unpublished) 120C-TN10R, (Unpublished) 120C-TR, (Unpublished) 610C-TR,	No	No	Yes	Yes

1U DCO (Right Hand Side)

Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-DR-6G4	1U DCO RHS	1 PCI-E x16	1 PCI-E x16	Passive	No	X12DDW-A6,	N/A	(Unpublished) 120C-TN10R, (Unpublished) 120C-TR, (Unpublished) 610C-TR,	No	No	Yes	Yes

2U DCO (Left Hand Side)

Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-D2-668G4	2U DCO LHS	1 PCI-E x163 SlimSAS x8	3 PCI-E x16	Passive	No	X12DDW-A6,	N/A	(Unpublished) 620C-TN12R,	Yes	No	Yes	Yes
	RSC-D2-66G4	2U DCO LHS	1 PCI-E x162 SlimSAS x8	2 PCI-E x16	Passive	No	X11DPD-M25, X11DPD-M25,	N/A	6129P-ACR12N4G,	No	No	Yes	Yes

2U DCO (Right Hand Side)

Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-D2R-668G4	2U DCO RHS	1 PCI-E x163 SlimSAS x8	3 PCI-E x16	Passive	No	X12DDW-A6,	N/A	(Unpublished) 620C-TN12R,	Yes	No	Yes	Yes
	RSC-D2R-68G4	2U DCO RHS	1 PCI-E x32	1 PCI-E x16, 1 PCI-E x8	Passive	No	X11DPD-M25, X11DPD-M25,	N/A	6129P-ACR12N4G,	No	No	Yes	Yes

1U Standard (Left Hand Side)

Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-S-6G4	1U Standard LHS	1 PCI-E x16	1 PCI-E x16	Passive	No	H125FR-AN6, X12DPFR-AN6, X125PO-F, X125PO-NTF,	N/A	N/A	No	No	Yes	Yes

1U Standard (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-RR1U-E8	1U Standard LHS	PCI-E x8	1 PCI-E x8	Passive	Yes	HIDMAB-2, HIDEWE-2, HESCAL-F, HESAL-L, XBDT1, XBDT3, XBDT4-F, XBDT4-FE, XBDT4-LN4F, XBDT4-LN4FE, XBDT4-IE, XBDT4-7LN4F, XBDT4-7LN4F-BDQ, XBDT4-EX, XBSL, XBSL-F, XBSE-L, XBSE, XBSE-F, XBSE-LNA, XBSE-LN4F, XBSE-F, XBSTE, XBSTI, XBSTE-F, XBSTI-IE, XBSTI-F, XBSTI-LNA, XPSPE-H, XPSPE-HF, XPSPE-H-DIG2S, XPSP-L, XPSP-M, XPSP-ME, HY-XSSOL, XSGCM-F, XSGCM-HF, XSGCL, XSGCL-F, XSGCL-FE, XSGCL-A, XSGCL-AF, XSGCL-LNA, XSGCL-LN4F, XSGCD-F, XSGDF-F, XSPAF, XSPAF-F, XSPAF-IE, XSPAF-FE, XSPAF-7F, XSPAF-IE, 7TE HESAM-2, HESAM-FE, HESAM-7F, XSPSP-MM, XSPSP-F, XSPSP-F-32TUF, XSPSP-F-32TUMC, XSPSP- LN4F, XSPSP-LN4F-3LE, XSPSP-LN4F-3GE, XSPSP-MMA, XSPSP-MMA-3QS, XSPSP-MMA-BUE, XTDC1-A, XTDC1-3, XTOWE, XWDRD- 3F, XSLA-M, XSLA-M1, XSLA-M-L, POSBM-LN1, POSBM-LN2, POSBM-LN2P, XYSBL-LN1, XYSBL-LN2, XYSBL-XYSB3-F, XYSLA-H, XYSLA-L, XYSPE-HF-DIG2S, XYSPE-HF-DIG2S, XYSPE,	111LT-330CB, 111LT- 360CB, 111TQ-563CB, 111TQ-600CB, 811L-350B, 812L-520B, 813H-500B, 813LT- 350CB, 813LT-R500CB, 813MTQ-441CB, 813MTQ-520CB, 813MTQ-RA00CB, 813MT-300CB, 813MT-410CB, 813MTQ- 280CB, 815TO-563CB, 815TCQ-600CB, 502-200B, 512-200B, 512-203B, 512-260B, 512F-350B, 512F-441B, 113MTQ- 330CB, 113MTQ-563CB, 113MTQ-600CB, 113MTQ-RA00CB, 113TQ- 563CB, 113TQ-600CB, 503L-200B, SC112, SC812	1012C-MRF, 1021M-T2+V, 1017C-TF, 1027R- 73DAHF, 1027R-73DBRF, 5017C-LF, 5017C- MF, 5017C-MTF, 5017C-MTRF, 5017CF- 5037MC-HBTRF, 5037MR-HBTRF, 6016T-6F, 6017R-TDF+, 1012A-M73RF, 1012A-MRF, 1012A-MTHF, 1015B-3B, 1015B-M3B, 1016H-TF, 1025C-3B, 1025C-M3B, 1027R-73DAF, 5015B- M3B, 5016-MB, 5016-MBF, 5016-MRH, 5016A-MHF, 5016A-TF, 5016H-TF, 5038ML- HBTRF, 6015C-M3, 6015C-M3B, 6015C-MT, 6015C-MT(B), 6017R-M7RF, 6017R-M7UF, 6017R-MTLF	No	Yes, de- pend- ing on MB	de- pend- ing on MB	Yes

Riser Cards

1U Standard (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-RR1U-E16	1U Standard LHS	PCI-E x16	1 PCI-E x16	Passive	Yes	X8DTH-6, X8DTH-6F, X8DTH-L, X8DTH-F, X8DTH-3, X8DTH-3F, X8DTH-6, X8DTH-6F, X8DTH-6L, X8DTH-L, X8DTH-F, X8DTH-L, X8SAX, X8SIE, X8SIE-F, X8SIE-LN4, X8SIE-LN4F, X8S16-F, X8STE, X8STI, X8STI-F, X8STI-3F, X8ST3-F, X8STI-LN4, X7SPE-H, X7SPE- H-DS25, X7SPE-HF, X8SIA, X8SIA-F, X9SCA, X9SCA-F, X9SRL-F, X9SRE-3F, X9SRE-F, X9SRI-3F, X9SRI-F, X9SRH-7F, X9SRH-7TF, X9SCI-LN4, X9SCI- LN4F, H8SMH-2, H8QME-2+, H8QM8-2+, H8QM3- 2+, H8QM-2+, H8QM6-F, H8SCM-F, H8SCM, H8SGL, H8SGL-F, H8QCG-F, H8QGI-F, H8QII-F+ H8QI+-LN4F, H8QGI-LN4F, X9SPV-M4, X9SPV-F, X9SPV-F-3217UE, X9SPV-F-3610ME, X9SPV-LN4F, X9SPV-LN4F-3LE, X9SPV-LN4F-3QE, X9SPV-M4-3QE, X9SPV-M4-3UE, X7QCE, X7QC3, X6QTE+, X6DAR-8G, X7DCA-L, X7SLM-L, PD5ML-LN1, PD5ML- LN2, PD5ML-LN2+, PD5ML-E-, X9SRL, X7QCE, X7QC3, X7QCE, X7QC3, X6QTE+, X6DAR-8G, X7DCA-L, X7SLM-L, PD5ML-LN1, PD5ML- LN2, PD5ML-LN2+, PD5ML-E-, X9SRL, X7QCE, X7QC3	111LT-330CB, 111LT- 360CB, 111TO-563CB, 111TO-600CB, 113MTQ- 330CB, 113MTQ-563CB, 113MTQ-600CB, 113MTQ-R400CB, 113TO- 563CB, 113TO-600CB, 811L-350B, 812L-520B, 813LT-350CB, 813- 500B, 813LT-R500CB, 813MTQ-441CB, 813MTQ-520CB, 813MTQ-R400CB, 813MT-300CB, 813MT-410CB, 813MTQ- 280CB, 815TO-563CB, 815TO-600CB, 502-200B, 512-200B, 512-203B, 512-260B, 512F-350B, 512F-441B, 113MTQ- 330CB, 113MTQ-563CB, 113MTQ-600CB, 113MTQ-R400CB, 113TO- 563CB, 113TO-600CB, 503L-200B, 5C112	1012G-MTE, 1041A-T2F, 1041M-T2+B, 1042G-LTF, 1042G-TF, 1017R-MTE, 1026T-M3, 1027B-MTE, 5017R-ME, 5017R-MTE, 5017R- MTRE, 6016T-MR, 6016T-MT, 6016T-MTHF, 6016T-MTLF, 6016T-T, 6017B-MTE, 6017B- MTL, 6017B-MTRE, 6017R-TDAF, 6017R-TDF, 8016B-4F, 8016B-TF, 8016B-LTF, 8017R-FT+, 8017R-TF+, 1011M-T2(B), 1041M-82(B), 1041M-T2(B), 1016I-MGF, 1016T-M3FB, 1018D-73MTF, 1026T-T, 1026T-TF, 5015A-EHF, 5016I-MGF, 5016I-MT, 5016I-MTE, 5016I-MTH, 5016I-MTHF, 5016T-MRB, 5016T-MRB-LN4, 5016T-MT(B), 5016T-TB, 5017P-TF, 5017P- TLN4F, 5018D-ME, 5018D-MTLN4F, 5018D- MTRE, 6016T-TF, 6017R-TDLRF, 8014T-T, 8014T-TB, 8015C-TB	No	Yes, de- pend- ing on MB	Yes, de- pend- ing on MB	Yes

1U Ultra (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-UN4-88	1U Ultra LHS	1 WIO Slot	2 PCI-E x8	Passive	No	X10DRU++	119UAC10-R1K02P-N10	1028U-TN10RT+	No	Yes	Yes	Yes

1U Ultra (Right Hand Side)

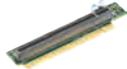
Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-UMR-8	1U Ultra RHS	1 SXB2 (WIO-Right)	1 PCI-E x8	Passive	No	X11DPU, X11DPU- Z+, H11DSU-IN,	CSE-119UAC10-R1K02P- T, CSE-116UTS-R1K06P3, CSE-219UB2AC24- R1K02-N24T, CSE- 219UB2AC24- R1K02-N20T, CSE- 819UTQ4R25-T	1029U-TN10RT, 1029U-TN20R25M, 2029U-TN40R4T, 2029U-TN20R25M, 6019U- TN4R4T, 6019U-TN4R7T,	No	Yes	Yes	Yes

1U Twin (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-P-6-X2	1U TwinPro LHS	1 PCI-E x16	1 PCI-E x16	Passive	No	H12D5T-B	N/A	N/A	No	No	Yes	Yes
	RSC-P-6	1U TwinPro LHS	1 PCI-E x16	1 PCI-E x16	Passive	No	X10DRT-PS, K15P1	CSE-217HQ+-R2K04BP2 CSE-827HQ+-R2K04BP2	5028TK-HTR, 2028TP-HC0R-SIOM, 2028TP-HC1R-SIOM, 2028TP-HTR-SIOM, 6028TP-HC0R-SIOM, 6028TP-HC1R-SIOM, 6028TP-HTR-SIOM	No	Yes	Yes	Yes
	RSC-R1UFF-E8	1U Twin LHS	PCI-E x8	1 PCI-E x8	Passive	Yes	X9DRFF-7G+ X9DRFF-7TG+ X10DRFF-CG	F414IS	F617H6-FTL+, F617H6-FTPTL+	No	Yes	Yes	Yes

Riser Cards

1U Twin (Right Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-PR-6-X2	1U TwinPro RHS	1 PCI-E x16	1 PCI-E x16	Passive	No	H120ST-B	N/A	N/A	No	No	Yes	Yes
	RSC-R1U-E16R	1U Twin RHS	PCI-E x16	1 PCI-E x16	Passive	No	H8DGG-QF, H8DCT- IBQF, H8DCT-F, H8DCT-HLH4F, H8DCT-HLUBQF, H8DGT-HLIF, H8DGT-HIBQF, H8DGT-HLUBQF, H8DGT-HIF, X7SBT, X8SIT, X9SRG-F, X9DRT-series	5C818T	1022GG-TF, 1122GG-TF, 2022TC-HTRF4, 2022TG-H6IBQRF, 2022TG-H6RF, 2022TG- HIBQRF, 2022TG-HLUBQRF, 2022TG-HLTRF, 2022TG-HTRF, 2122TC-H6RF4, 2122TG- H6IBQRF, 2122TG-H6RF, 2122TG-HIBQRF, 2122TG-HTRF, 2022TC-BIBQRF, 2022TC-BTRF, 1021TM-INF-B, 1021TM-T4-B, 2021TM- BIBXRF, 2021TM-BTRF, 1017GR-TF, 1017GR- TF-FM109, 1017GR-TF-FM175, 1017GR-TF- FM209, 1017GR-TF-FM275, 1025TC-10GB, 1025TC-3FB, 1025TC-TB, 1026GT-TF, 1026GT-TF-FM105, 1026GT-TF-FM107, 1026GT-TF-FM109, 1026GT-TF-FM175, 1026GT-TF-FM205, 1026GT-TF-FM207, 1026GT-TF-FM209, 1026GT-TF-FM275, 1026TT-IBQF, 1026TT-IBX; 1026TT-INFF, 1026TT-TF, 1027TR-TF, 1027TR-TFF, 1027TR-TQF, 2016TT-HTRF, 2026TT-H6IBQRF, 2026TT-H6IBXRF, 2026TT-H6RF, 2026TT- HIBQRF, 2026TT-HIBXRF, 2026TT-HTRF, 2027TR-H70QRF, 2027TR-H70QRF, 2027TR- H70RF, 2027TR-H71FRF, 2027TR-H71QRF, 2027TR-H71RF, 2027TR-H72RF, 2027TR- H72QRF, 2027TR-H72RF, 2027TR-HTRF, 2027TR-HTRF, 2027TR-HTRF, 5015TB-10GB, 5015TB-TB, 5016TT-TF, 5017GR-TF, 5017GR-TF-FM109, 5017GR-TF-FM175, 5017GR-TF-FM209, 5017GR-TF-FM275, 5026TT-BTRF, 5026TT-HTRF, 6015TC-10GB, 6015TC-LFTB, 6015TC-TB, 6015TW-INFV/B, 6015TW-TV/B, 6016GT-TF, 6016GT-TF-FM107, 6016GT-TF-FM109, 6016GT-TF-FM175, 6016GT-TF-FM205, 6016GT-TF-FM207, 6016GT-TF-FM209, 6016GT-TF-FM275, 6016TT-IBQF, 6016TT-IBX; 6016TT-INFF, 6016TT-TF, 6017TR-TF, 6017TR-TFF, 6017TR-TQF, 6026TT-BIBQF, 6026TT-BIBQRF, 6026TT-BIBX; 6026TT-BIBXRF, 6026TT-BINF, 6026TT-BINF; 6026TT-BTF, 6026TT-BTRF, 6026TT-H6IBQRF, 6026TT-H6IBXRF, 6026TT- H6RF, 6026TT-HBQF, 6026TT-HIBQRF, 6026TT-HIBX; 6026TT-HIBXRF, 6026TT-HTF, 6026TT-HTRF, 6026TT-IBQF, 6026TT-IBX; 6026TT-TF, 6027TR-H70QRF, 6027TR-H70QRF, 6027TR-H70RF, 6027TR-H71FRF, 6027TR- H71QRF, 6027TR-H71RF, 6027TR-HTRF, 6027TR-HTRF, 6027TR-HTRF, 1022TC-IBQF, 1022TC-TF	No	Yes, de- pend- ing on slots	No	N/A
	RSC-R1UFF-E8R	1U Twin RHS	PCI-E x8	1 PCI-E x8	Passive	Yes	X9SCFF-F, X9DRT, X10DRFF-CG	F418BL-R1K62BP	F627R3-TF, F627R3-F73, F517H6-TF, F617H6-F74, F617H6-F74L, F617H6-F7PT4, F617H6-F7PTL+, F617R2-F74, F617R3-F7+, 5017R-INDP, F517H6-FT	No	Yes	Yes	Yes

1U Storage (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-X-6G4												
	RSC-X-6	1U Storage LHS	1 PCI-E x16	1 PCI-E x16	Passive	No	X11DSF-E,	121EF-R1K62P, 121NF-R1K62P,	1029P-NES32R, 1029P-NMR36L,	No	Yes	Yes	Yes
	RSC-X-66	1U Storage LHS	1 PCI-E x32	2 PCI-E x16	Passive	No	X11DSF-E,	121NF-R1K62P, 121EF-R1K62P,	1029P-NES32R, 1029P-NMR36L,	No	Yes	Yes	Yes
	RSC-X-66-C	1U Storage LHS	1 5XB1 (WIO-Left)	2 PCI-E x16	Passive	No	X11DSN-TS, X11DSN-TSq,	227TS-R2K05P, 227TS-R2K05P2, 227TS-R2K05P3,	2029P-DN2R24L, 2029P-DN2R48L, 2029P-DN2RR32L,	No	No	Yes	Yes

1U UIO (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-R1UU-2U	1U UIO LHS	Universal SXB2 Slot (UIO)	2 UIO	Passive	No	X8DTU, X8DTU-F, X8DTU-LN4F+, X8SIU-F, H8DMU+, H8SMU, H8DGU, H8DGU-F, H8DGU- LN4F+, X7DBU, X7DGU, X7DWU, X7DCU, X8DTU-6F, X8DTU-6TF, X7SBU, PDSMU, X8SIU	113TQ-560UB,,, 113TQ- R650UB, 815TQ-560UB,,, 812L-280U, 812L-280UB, 812L-520U, 812L-600UB, 111T-560UB, 111TQ- 563UB, 111TQ-600UB, 111LT-330UB, 111LT- 360UB, 119TQ-R700UB, 819TQ-R700UB, 515-280UB	N/A	No	Yes, de- pend- ing on MB	No	No
	RSC-R1UU-E8E16	1U UIO LHS	Universal SXB2 Slot (UIO)	1 PCI-E x8; PCI-E x16	Passive	No	X8DTU, X8DTU-F, X8DTU-LN4F+, X9SPU-F, X9DBU-IF, X9DBU-IF, H8DGU, H8DGU-F, H8DGU- LN4F+, X8SIU-F, X8SIU	113TQ-560UB,,, 113TQ- R650UB, 815TQ-560UB,,, 812L-280U, 812L-280UB, 812L-520U, 812L-600UB, 111T-560UB, 111TQ- 563UB, 111TQ-600UB, 111LT-330UB, 111LT- 360UB, 119TQ-R700UB, 819TQ-R700UB, 515-280UB	6017B-NTF	Yes	Yes, de- pend- ing on MB	Yes, de- pend- ing on MB	Yes depending on MB

Riser Cards

1U UIO (Right Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-R1UU-E8PR	1U UIO RHS	PCI-E x8	1 PCI-E x8	Passive	No	X8DTU, X8DTU-F, X8DTU-LN4F+, X7DWU, X7DCU, X8DTU-6F, X8DTU- 6TF	113TQ-560UB, 113TQ- R650UB, 815TQ-560UB, 812L-280U, 812L-280UB, 812L-520U, 812L-600UB, 111T-560UB, 111TQ-563UB, 111TQ-600UB, 111LT-330UB, 111LT-360UB, 119TQ-R700UB, 819TQ-R700UB, SC515-280UB	N/A	No	Yes, depending on slots	No	No
	RSC-R1UU-E8R+	1U UIO RHS	PCI-E x8	1 PCI-E x8	Passive	No	X85IU-F, X9SPU-F, H8SMU, X8DTU-LN4F+, X8DTU-6F+, X85IU-F	113TQ-560UB, 113TQ-R650UB, 815TQ-560UB, 812L-280U, 812L-280UB, 812L-520U, 812L-600UB, 111T-560UB, 111TQ-563UB, 111TQ-600UB, 111LT-330UB, 111LT-360UB, 119TQ-R700UB, 819TQ-R700UB, 515-280UB	N/A	No	No	No	No

1U WIO (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-W-66G4	1U WIO LHS	1 PCI-E x32	2 PCI-E x16	Passive	No	H125SW-NT,	N/A	N/A	No	No	Yes	Yes
	RSC-W-68	1U WIO LHS	WIO Slot	1 PCI-E x8 1 PCI-E x16	Passive	Yes	X115SW-F	WIO Chassis	5019S-WR	No	Yes	Yes	No
	RSC-W-88	1U WIO LHS	WIO Slot	2 PCI-E x8	Passive	No	X10DRW-i	WIO Chassis	6028R-WTR, 1028R-WTR, 1028R-WC1R	No	Yes	Yes	Yes

1U WIO (Left Hand Side)

	RSC-R1UW-2E16	1U WIO LHS	WIO Slot	2 PCI-E x16	Passive	Yes	X9SRW-3F, X9SRW-F, X9DRW-IF, X9DRW-3F, X9DRW-3LN4F+, X9DRW-3TF+, X10DRW-series /X10DRT-T/ X10DDW-i	WIO Chassis	1027R-72BRFTP, 1027R-72RFTP, 1027R-N3RF, 1027R-WRF, 1027R-WRF4+, 1027R-WRF4+, 5017R-WRF, 6017R-72BRFTP, 6017R-N3RF4+, 6017R-N3RFT+, 6017R-NTF, 6017R-WRF	Yes	Yes	Yes	Yes
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1U WIO (Right Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-WR-6	1U WIO RHS	1 PCI-E x16	1 PCI-E x16	Passive	No	H115SW-NT, H125SW-NT, H1125U-IN, X11DDW-NT,	N/A	AS-1113S-WTRT, 1113S-WN10RT, 2123US-TN24R25M, 6019P-ACR12L+, 1014S-WTRT, 1114S-WTRT,	No	No	Yes	Yes
	RSC-WR-6	1U WIO RHS	1 PCI-E x16	1 PCI-E x16	Passive	No	N/A	N/A	N/A	No	No	Yes	Yes
	RSC-R1UW-E8R	1U WIO RHS	WIO Slot	1 PCI-E x8	Passive	Yes	X9SRW-3F, X9SRW-F, X9DRW-IF, X9DRW-3F, X9DRW-3LN4F+, X9DRW-7TFP+, X10SRW-F, X10DDW-i	WIO Chassis	5017R-WRF, 1027R-72BRFTP, 1027R-72RFTP, 1027R-WRF4+, 1027R-WRF4+, 6017R-72BRFTP, 6017R-N3RF4+, 6017R-N3RFT+	No	Yes	Yes	No

2U GPU/Coprocessor (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-G2B-A66-X1	2U GPU LHS	2 PCI-E x16	2 PCI-E x16	Active	No	X11DPG-SN,	N/A	2029GP-TR,	Yes	Yes	Yes	Yes
	RSC-G2F-A66-X1	2U GPU LHS	1 PCI-E x16	2 PCI-E x16	Active	No	X11DPG-SN	218GHTS-R2K03BP3	2029GP-TR,	Yes	Yes	Yes	Yes
	RSC-G2F-A66	2U GPU LHS	1 PCI-E x16	2 PCI-E x16	Active	No	X10DRG-H, X10DRG-HT	SC218GH-R2K03B	2028GR-TR, 2028GR-TRH, 2028GR-TRHT, 2028GR-TRT	Yes	Yes	Yes	Yes

2U GPU/Coprocessor (Right Hand Side)

Riser Cards

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-G2FR-A66	2U GPU RHS	1 PCI-E x16	2 PCI-E x16	Active	Yes	X10DRG-H, X10DRG-HT	5C218GH-R2K03B	2028GR-TR, 2028GR-TRH, 2028GR-TRHT, 2028GR-TRT	Yes	Yes	Yes	Yes
	RSC-R2UG-E16R-X9	2U GPU RHS	PCI-E x16	1 PCI-E x16	Passive	Yes	X8DTG-QF+	218G-R1800B	2026GT-TF, 2026GT-TRF, 2026GT-TRF-FM407, 2026GT-TRF-FM409, 2026GT-TRF-FM475, 2027GR-TRFH-FM609, 2027GR-TRFH-FM475, 2027GR-TRFT, 2027GR-TSF	Yes	Yes	Yes	N/A

2U Standard (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup- port	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Sup- port	Gen3 Sup- port	Auto Detection
	RSC-S2-88	2U Standard LHS	1 PCI-E x8	2 PCI-E x8	Passive	No	X10QRH+	CSE-218U-R1K02P	2048U-RTR4	No	Yes	Yes	Yes

2U Standard (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup- port	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Sup- port	Gen3 Sup- port	Auto Detection
	RSC-S2-66	2U Standard LHS	2 PCI-E x16	2 PCI-E x16	Passive	No	X11QPH+	CSE-218UTS-B1K62P	2049U-TRA	No	Yes	Yes	Yes

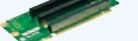
2U Ultra (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup- port	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Sup- port	Gen3 Sup- port	Auto Detection
	RSC-U2N4-6	2U Ultra LHS	1 WIO Slot	2 PCI-E x8	Passive	No	X10DRU++	CSE-219UAC-R1K02	2028U-TN24RT+	Yes	Yes	Yes	Yes

2U Twin (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup- port	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-F2B-88G4	2U FatTwin LHS	1 PCI-E x16	2 PCI-E x8	Passive	No	X12DPFR- AN6, H125SFR- AN6,	N/A	N/A	No	No	Yes	Yes
	RSC-P2-88	2U TwinPro LHS	1 PCI-E x16	2 PCI-E x8	Passive	No	X11DPT-B, X10DRT-B+,	N/A	N/A	No	Yes	Yes	Yes

2U Twin (Right Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-P2R-88G4	2U TwinPro RHS	1 PCI-E x16	2 PCI-E x8	Passive	No	N/A	N/A	N/A	No	No	Yes	Yes
	RSC-T2R-884	2U Twin RHS	1 PCI-E x16	2 PCI-E x16, 1 PCI-E x8	Passive	No	X11DPT-L,	827HD-R1K- 23BP3 ,	6029TR-DTR,	No	Yes	Yes	Yes
	RSC-R2UT-3E8R	2U Twin RHS	PCI-E x8PCI-E x16	3 PCI-E x8	Passive	Yes	X9DRT-F, X9DRT-HF, X9DRT-HIBFF, X9DRT-HIBQF, X9DRT-IBFF, X9DRT-IBQF	SC827T-R1400B, SC827T-R1200	2027TR-D70FRF, 2027TR-D70RF, 2027TR-D70FRF, 6027TR-D70RF, 2027TR-D70RF, 6027TR-D70RF, 6027TR-D71FRF, 6027TR-D71QRF, 6027TR-D71FRF, 6027TR-D71RF, 6027TR-D71FRF, 6027TR-D71RF, 6027TR-D71FRF, 6027TR-D71RF	No	Yes	Yes	Yes
	RSC-R2UT-E8E16R	2U Twin RHS	PCI-E x8PCI-E x16	1 PCI-E x8; 1 PCI-E x16	Passive	Yes	X9DRT-F, X9DRT-HF, X9DRT-HIBFF, X9DRT-HIBQF, X9DRT-IBFF, X9DRT-IBQF	SC827T-R1400B, SC827T-R1200	6027TR-GTRF	Yes	Yes	Yes	Yes
	RSC-R2UT-2E8R	2U Twin RHS	PCI-E x16	2 PCI-E x8	Passive	No	X8DTT, X8DTT-F, X8DTT-IBX, X8DTT-IBXF, X8DTT-IBQ, X8DTT-IBQF, X8DTT- HX8DTT-HF, X8DTT-H+, X8DTT-HF+, X8DTT-HIBXF, X8DTT- HIBXF+, X8DTT-HIBQF, X8DTT- HIBQF+, H8DCT- HLN4F	827H-R1400B, 827T-R1200	2026TT-DLIBQRf, 2026TT-DLIBXRf, 2026TT-DLRF, 6026TT-D6IBQRf, 6026TT-D6IBXF, 026TT-HDIBQRf, 6026TT-HDIBXRf, 6026TT-HDTRf, 2122TC-DL6RF4	No	Yes	No	Yes

Riser Cards

2U UIO (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup- port	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-R2UU-A4E8+	2U UIO LHS	SXB-E Universal Slot (UIO)	4 PCI-E x8	Active	No	X8DTU, X8DTU-F, X8DTU-LN4F+, H8DGU, H8DGU-F, H8DGU-LN4F+	UIO Chassis	N/A	No	Yes	No	No

2U UIO (Left Hand Side)

	RSC-R2UU-UA3E8+	2U UIO LHS	SXB-E Universal Slot (UIO)	3 PCI-E x8; 1 UIO	Active	No	X8DTU, X8DTU-F, X8DTU-LN4F+, H8DGU, H8DGU-F, H8DGU-LN4F+	UIO Chassis	2022G-URF, 2022G-URF4+, 6026T-UR, 6026T-URF	No	Yes	No	No
	RSC-R2UU-2E8	2U UIO LHS	Universal SXB2 Slot (UIO)	2 PCI-E x8	Passive	No	H8DMU+, H8SMU, X75BU, X7DCU, X7DBU, X7DWU, X7DCU, X8DTU-F, X8DTU-6TF*	UIO Chassis	N/A	No	Yes, de- pend- ing on MB	No	No

2U UIO (Right Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup- port	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
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2U WIO (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup- port	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-W2-8888G4	2U WIO LHS	1 PCI-E x32	4 PCI-E x8	Passive	No	H125SW-NT,	N/A	N/A	No	No	Yes	Yes
	RSC-W2-66G4	2U WIO LHS	1 SXB1 (WIO- Left)	2 PCI-E x16	Passive	No	H12DSU-IN, X12DPU, H12SSW- NT, (Unpublished) H12SSW-NTR,	N/A	N/A	Yes	No	Yes	Yes
	RSC-R2UW-2E8E16+	2U WIO LHS	WIO Slot	2 PCI-E x16; 1 PCI-E x8	Passive	Yes	X9DRW-IF, X9DRW- 3F, X9DRD-IT+, X10DRW-series and X10QRH+, X10DRW-series and X10QRU-series	WIO CHASSIS	N/A	Yes	Yes	Yes	Yes
	RSC-R2UW-2E8E16	2U WIO LHS	WIO Slot	2 PCI-E x8; 1 PCI-E x16	Passive	Yes	X9SRW-F, X9SRW-3F, X9DRW-IF, X9DRW- 3F, X9DRW-3TF+, X9DRW-3LN4F+	WIO CHASSIS	6027R-72RFTP+, 2027R-72RFTP+	Yes	Yes	Yes	Yes
	RSC-R2UW-4E8	2U WIO LHS	WIO Slot	4 PCI-E x8	Passive	Yes	X9SRW-F, X9SRW-3F, X9DRW-IF, X9DRW- 3F, X9DRW-3TF+, X9DRW-3LN4F+, X10DRW-series	WIO CHASSIS	5027R-WRF, 2027R-N3RF4+, 2027R-N3RFT+, 6027R-N3RF4+, 6027R-N3RFT+	No	Yes	Yes	Yes

2U WIO (Right Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup- port	Mother- boards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-W2R-88G4	2U WIO RHS	1 PCI-E x16	2 PCI-E x8	Passive	No	H125SW-NT, H125SW-IN, (Unpub- lished) H125SW-INR, (Unpublished) H125SW-NTR,	N/A	A5-21145-WN24RT	No	No	Yes	Yes
	RSC-R2UW-2E4R	2U WIO RHS	1 PCI-E x16	2 PCI-E x4	Passive	Yes	X9SRW-F, X9SRW-3F, X9DRW-F-5502Z, X10SRW-F	2U WIO chassis	N/A	No	Yes	Yes	Yes
	RSC-R2UW-E8R-UP	2U WIO RHS	WIO Slot	1 PCI-E x8	Passive	Yes	X9SRW-3F, X9SRW-F, X10DRW-F and X10SRW-F	WIO Chassis	5027R-WRF	No	Yes	Yes	Yes
	RSC-R2UW-2E8R	2U WIO RHS	WIO Slot	2 PCI-E x8	Passive	Yes	X9DRW-IF, X9DRW- 3F, X9DRW- 3TF+, X9DRW- 3LN4F+	WIO Chassis	2027R-72RFTP+, 6027R-72RFTP+	No	Yes	Yes	Yes

Trusted Platform Module (TPM)

Provisioned TPM

TPM	Types	Differentiators	FormFactors	Pictures	Model Numbers
Provisioned TPM+ TXT	Server (S)	96-Byte index Memory Support: Intel® Xeon® Processor E5, Intel® Xeon® Processor E7	Vertical (V)		AOM-TPM-9655V-S AOM-TPM-9665V-S
			Horizontal (H)		AOM-TPM-9655H-S AOM-TPM-9665H-S
	Client (C)	48-Byte index Memory Support: Intel® Xeon® Processor E3 Intel® Core™ i7 Processor, Intel® Core™ i5 Processor	Vertical (V)		AOM-TPM-9655V-C AOM-TPM-9665V-C
			Horizontal (H)		AOM-TPM-9655H-C AOM-TPM-9665H-C

TPM Products

TCG	Model #	Form Factor	TXT*	MB Platform	Supported CPUs
TPM 1.2	AOM-TPM-9655V	Vertical	N/A	Intel® & AMD	Any MB's Supported CPU
	AOM-TPM-9655V-S	Vertical	Server	Intel®	Intel® Xeon® Processor E5, Intel® Xeon® Processor E7
	AOM-TPM-9655V-C	Vertical	Client	Intel®	Intel® Core™ i5 Intel® Core™ i7 Processor, Intel® Core™ i5 Processor & Intel® Xeon® Processor E3
	AOM-TPM-9655H	Horizontal	N/A	Intel® & AMD	Any MB's Supported CPU
	AOM-TPM-9655H-S	Horizontal	Server	Intel®	Intel® Xeon® Processor E5, Intel® Xeon® Processor E7
	AOM-TPM-9655H-C	Horizontal	Client	Intel®	Intel® Core™ i5 Processor Intel® Core™ i7 Processor, Intel® Xeon® Processor E3
TPM 2.0	AOM-TPM-9665V	Vertical	N/A	Intel	Any MB's Supported CPU
	AOM-TPM-9665V-S	Vertical	Server	Intel®	Intel® Xeon® Processor E5, Intel® Xeon® Processor E7
	AOM-TPM-9665V-C	Vertical	Client	Intel®	Intel® Core™ i3 Processor, Intel® Core™ i5 Processor, Intel® Core™ i7 Processor, Intel® Xeon® Processor E3
	AOM-TPM-9665H	Horizontal	N/A	Intel	Any MB's Supported CPU
	AOM-TPM-9665H-S	Horizontal	Server	Intel®	Intel® Core™ i5 Processor, Intel® Core™ i7 Processor
	AOM-TPM-9665H-C	Horizontal	Client	Intel®	Intel® Core™ i5 Processor, Intel® Core™ i7 Processor, Intel® Xeon® Processor E3

TPM Modules for X11 Purley

Modules	Part Number	Descriptions
TPM Security Module (optional, not included)	AOM-TPM-9670V	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor
TPM Security Module (optional, not included)	AOM-TPM-9670H	SPI capable TPM 2.0 with Infineon 9670 controller with horizontal form factor
TPM Security Module (optional, not included)	AOM-TPM-9671V	SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor
TPM Security Module (optional, not included)	AOM-TPM-9671H	SPI capable TPM 1.2 with Infineon 9670 controller with horizontal form factor

* TPM Provisioning is required for TXT function, selecting server or client provisioning depends on the CPU and MB that is going to be used

Mobile Racks & Drive Kits

*High Performance,
Scalability & Flexibility for
Next Generation Enterprise
Server/Storage Solutions*



New! SAS 3.0 (12Gb/s)

New! SAS 3.0 (12Gb/s)



SAS 3.0/SATA 3.0

SAS 3.0/SATA 3.0

SAS 2.0/SATA 3.0

Model Part#	CSE-M14TQC	CSE-M28SACB / CSE-M28SACB-OEM	CSE-M28SAB / CSE-M28SAB-OEM
Occupancy	1 x 5.25" drive bays	2x 5.25" drive bays	2x 5.25" drive bays
Capacity	4 x 2.5" hot-swap SAS 3.0/SATA 3.0 hard drives	8x 2.5" hot-swap SAS 3.0/SATA 3.0 hard drives	8x 2.5" hot-swap SAS2.0/SATA 3.0 hard drives
Expander Card	N/A	N/A	N/A
Cooling Subsystem	40mm exhaust fan	40mm exhaust fan (CSE-M28SACB only)	40mm exhaust fan (CSE-M28SAB only)
System Monitoring	- Overheat LED & alarm - Drive activity LED - Fan failure LED 4x 7-pin SATA connectors (support 12Gb/s)	- Overheat LED & alarm - Drive activity LED & failure LED - Fan failure LED & Alarm (CSE-M28SACB only) 2x MiniSAS HD connectors	- Fan fail detection LED & alarm (CSE-M28SAB only) - Overheat LED indication alarm - Drive activity/failure LED 2x iPASS connectors
Dimensions	5.8"W x 1.6"H x 7.9"H (147mm x 40mm x 200mm)	CSE-M28SACB: 5.8"W x 3.4"H x 7.4"D (146 x 85 x 187mm) CSE-M28SACB-OEM: 5.8"W x 3.4"H x 6.2"D (146 x 85 x 157mm)	CSE-M28SAB: 5.8"W x 3.4"H x 7.4"D (146 x 85 x 187mm) CSE-M28SAB-OEM: 5.8"W x 3.4"H x 6.2"D (146 x 85 x 157mm)
Gross Weight	4 lbs	5 lbs	5 lbs

New! SAS 3.0 (12Gb/s)

New! SAS 3.0 (12Gb/s)



SAS/SATA

SAS 3.0/SATA 3.0

SAS 3.0/SATA 3.0

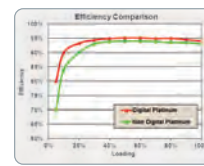
Model Part#	CSE-M35T-1/M35TQ	MCP-220-82616-0N MCP-220-83608-0N MCP-220-84610-0N	MCP-220-81506-0N MCP-220-81504-0N
Occupancy	3x 5.25" drive bays	1x rear drive bay	1x slim DVD or slim floppy size drive bay
Capacity	5x 3.5" hot-swap SAS/SATA hard drives	2x 2.5" hot-swap SAS3/SATA3 hard drives	1x 2.5" hot-swap SAS3/SATA3 hard drive
Expander Card	N/A	N/A	N/A
Cooling Subsystem	90mm exhaust fan	N/A	N/A
System Monitoring	- Fan fail detection LED & alarm - Overheat LED indication - Drive activity LED - SCM35TQ has "Drive Failure LED"	- Monitoring drive activity, rebuild or failure - Jumper settings for various configurations 12G support with optional CBL-SAST-0699	- Monitoring drive activity, rebuild or failure - Support SGPIO if connected to logical port #0 12G support with optional CBL-SAST-0699 - Slim drive tray (up to 9.5mm)
Dimensions	5.8"W x 5"H x 9.7"D (146 x 129 x 245mm)	82616: 3.26" x 1.36" x 6.26" (83x35x159mm) 83608: 3.2" x 1.6" x 6.1" (81x41x155mm) 84610: 6.0" x 0.76" x 6.7" (152x20x170mm)	Slim DVD size: 5.05" W x 0.5" H x 6.3" D (128x13x160mm) Slim floppy size: 3.8" W x 0.5" H x 6.3" D (97x13x160mm)
Gross Weight	7.5 lbs	1.5 lbs	1 lbs

Power Supplies

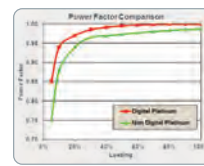
Digital Switching Power Supplies

96% Titanium Level Power Efficiency!

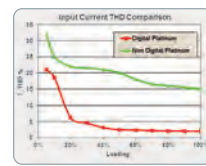
- New generation Digital Switching Power Supplies
- Improved power efficiency (5~10%) in light loading
- Improved power factory correction (5~10%) in light loading
- Reduce current THD (15%) power transmission loss
- Real-time monitoring & enhanced system reliability



Efficiency Comparison



Power Factor Comparison

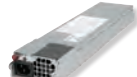


Input Current THD Comparison

Digital Titanium Level Power Supply
Non-Digital Platinum Level Power Supply



Model	PWS-1K02A-1R	PWS-1K03A-1R	PWS-1K04A-1R	PWS-1K62A-1R	PWS-1K22A-1R
Total Output Power	800W / 1000W	800W / 1000W	800W/1000W	1000W / 1600W	800W / 1200W
Input	100-127Vac/200-240Vac/ 50-60Hz	100-127Vac/ 200-240Vac/ 50-60Hz	100-127Vac / 200-240Vac / 50-60Hz	100-127Vac/200-240Vac/ 50-60Hz	100-127Vac / 200-240Vac/ 50-60Hz
Form Factor	1U	1U	1U	1U	1U
Dimension (LxWxH) cm	20.3 x 7.35 x 4	33.6 x 7.6 x 4	18.5 x 7.35 x 4	20.3 x 7.35 x 4	20.3 x 7.35 x 4
Output Type*	25Pair Gold Finger	Backplanes Available	BackPlanes (gold finger)	25Pair Gold Finger	25Pair Gold Finger
Redundant	Yes	Yes	Yes	Yes	Yes
PC Remote Monitoring	FRU Data and PMBus	FRU Data and PMBus	FRU data and PMBus	FRU Data and PMBus	FRU Data and PMBus
+5V	-	-	-	-	-
+12V	66.7A (100Vac-127Vac), 83A (200Vac-240Vac)	66.7A (100Vac-127Vac) 83A (200Vac-240Vac)	66.7A (100-127Vac) / 83A (200-240Vac)	83.3A (100Vac-127Vac), 133A (200Vac-240Vac)	66.7A (100Vac-127Vac) / 100A (200Vac-240Vac)
+3.3V	-	-	-	-	-
5VSB	12Vsb 2.1A	4A	-	12Vsb 2.1A	12Vsb 2.1A
-12V	-	-	12Vsb 2.1A	-	-
Efficiency					



Model	PWS-2K05A-1R	PWS-2K04A-1R PWS-2K04F-1R	PWS-2K20A-1R	PWS-2K60A-1R	PWS-1K68A-1R	PWS-1K23A-1R
Total Output Power	1000W/1800/1980/2000	1000W / 1800W / 1980W / 2000W	1200W/1800W1980W/ 2090W/2200W	2600W	800W / 1600W	1000W / 1200W
Input	100-120/200-220/220-230/ 230-240Vac/ 50-60Hz	100-127/200-220Vac/ 220-230/230-240Vac/ 50-60Hz	100-127Vac/ 200-220Vac/ 220-230Vac/ 230-240Vac/ 220-240Vac (UL, cUL only)/ 50-60Hz	208-240Vac 220-240Vac (for CQC only)	100-140Vac/ 180-240Vac/ 50-60Hz	100-127Vac / 180-240Vac/ 50-60Hz
Form Factor	1U	1U	1U	1U	1U	1U
Dimension (LxWxH) cm	26.5 x 7.35 x 4	33.6 x 7.6 x 4	33.6 x 7.6 x 4	48x 4.5 x 4	33.6 x 7.6 x 4	33.6 x 7.6 x 4
Output Type*	Backplanes Available	Backplanes Available	BackPlanes (gold finger)	Backplanes (connector)	Backplanes available	Backplanes Available
Redundant	Yes	Yes	Yes	Yes	Yes	Yes
PC Remote Monitoring	FRU Data and PMBus	FRU Data and PMBus	FRU data and PMBus	FRU Data	FRU Data and PMBus	FRU Data and PMBus
+5V	-	-	-	-	-	-
+12V	83.3A (100-120Vac), 150A (200-220Vac), 165A (220-230Vac), 166.7A (230-240Vac); UL/cUL use: 166.7A (200-240Vac)	83.3A (100-127Vac) 150A (200-220Vac) 165A (220-230Vac) 166.7A (230-240Vac)	100A (100-127Vac) / 150A (200-220Vac) / 165A (220-230Vac) / 174.17A (230-240Vac) / 183.3A (220-240Vac, UL/cUL only)	216.6A	66A (100Vac-127Vac) 133A 180Vac-240Vac)	83A (100Vac-140Vac), 100A (200Vac-240Vac)
+3.3V	-	-	-	-	-	-
5VSB	12Vsb 2.1A	1A	1A	4.5A	1A	4A
-12V	-	-	-	-	-	-
Efficiency						



Model	PWS-2K21A-2R	PWS-802A-1R	PWS-1K05A-1R	PWS-2K22A-1R	PWS-2K21A-BR
Total Output Power	1200W/1800W1980W/ 2090W/2200W	800W	800W / 1000W	1200W / 1800W / 1980W / 2090W / 2200W	1200W/1800W1980W/ 2090W/2200W
Input	100-127Vac/ 200-220Vac/ 220-230Vac/ 230-240Vac/ 180-220Vac (UL, cUL only) / 230-240Vdc (CCC only) / 50-60Hz	100-240Vac / 200-240Vdc / 50-60Hz	100-127Vac/200-240Vac/ 50-60Hz	100-127 / 200-220 / 220-230 / 230-240 / 220-240 Vac / 50-60Hz / 230-240Vdc	100-127Vac/ 200-220Vac/ 220- 230Vac/ 230-240Vac/ 220-240Vac (UL, cUL only) / 180-220Vac (UL, cUL only) / 230- 240Vdc (CCC only) / 50-60Hz
Form Factor	4U	1U	1U	1U	Microblade/ superblade
Dimension (LxWxH) cm	10.65 x 20.35 x 8.24	33.6 x 7.6 x 4	36 x 3.8 x 4	48 x 4.5 x 4	24.53 x 10.65 x 8.4
Output Type*	BackPlanes (gold finger)	BackPlanes (gold finger)	Backplanes Available	Backplanes Available	BackPlanes (gold finger)
Redundant	Yes	Yes	Yes	Yes	Yes
PC Remote Monitoring	FRU data and PMBus	FRU data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU data and PMBus
+5V	-	-	-	-	-
+12V	100A (100-127Vac) / 150A (200-220Vac) / 165A (220- 230Vac) / 174.17A (230-240Vac) / 183.3A (220-240Vac, UL,cUL only) / 174.17A (180-220Vac UL, cUL only) / 174.17A (230-240Vdc, CCC only)	66A	66.7A (100Vac-127Vac), 83A (200Vac-240Vac)	100A (100-127Vac) / 150A (200-220Vac) 165A (220-230Vac) / 174.17A (230-240Vac) (180-220Vac, UL,cUL) / (230-240Vdc, CCC) 183.3A (220-240Vac, UL,cUL)	100A (100-127Vac) / 150A (200-220Vac) / 165A (220- 230Vac) / 174.17A (230-240Vac) / 183.3A (220-240Vac, UL,cUL only) / 174.17A (180-220Vac UL, cUL only) / 174.17A (230-240Vdc, CCC only)
+3.3V	-	-	-	-	-
5VSB	-	4A	4A	12Vsb 2.1A	-
-12V	12Vsb 2.1A	-	-	-	12Vsb 2.1A
Efficiency					

Power Supplies



Model	PWS-2K02P-1R PWS-2K02F-1R	PWS-1K41P-1R	PWS-1K28P-SQ	PWS-1K21P-1R	PWS-920P-SQ	PWS-741P-1R
Total Output Power	1100W / 1400W / 1800W / 1980W / 2000W	1100W / 1400W	1000W / 1280W	1000W / 1200W	920W	740W
Input	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz
Form Factor	1U	1U	1U	1U	1U	1U
Dimension (LxWxH) cm	33.6 x 7.6 x 4	33.6 x 7.6 x 4	33.6 x 7.6 x 4	33.6 x 7.6 x 4	33.6 x 7.6 x 4	33.6 x 7.6 x 4
Output Type*	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available
Redundant	Yes	Yes	Yes	Yes	Yes	Yes
iC Remote Monitoring	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus
+5V	-	-	-	-	-	-
+12V	91.7A (100-120Vac) 116.7A (120-140Vac) 150A (200-220Vac) 165A (220-230Vac) 166.7A (230-240Vac) UL/cUL 166.7A (200-240Vac)	92A (100-140Vac) 116A (180-240Vac)	83A (100-140Vac) 106.7A (180-240Vac)	83A (100-140Vac) 100A (180-240Vac)	75A	61.7A
+3.3V	-	-	-	-	-	-
5VSB	4A	4A	4A	4A	4A	4A
-12V	-	-	-	-	-	-
Efficiency						



Model	PWS-721P-1R	PWS-2K03P-1R	PWS-1K66P-1R	PWS-751P-1R	PWS-606P-1R
Total Output Power	720W	1000/1800/1980/2000W	1000W / 1600W	750W	600W
Input	100-240Vac / 50-60Hz	100-120/ 200-220/ 220-230/230-240Vac / 50-60Hz	100-127Vac, 200-240Vac / 50-60Hz	100-127, 200-240Vac / 50-60Hz	100-240Vac / 50-60Hz
Form Factor	1U	1U	1U	1U	1U
Dimension (LxWxH) cm	33.6 x 7.6 x 4	26.5 x 7.35 x 4	26.5 x 7.35 x 4	20.3 x 7.35 x 4	22 x 5.45 x 4
Output Type*	Backplanes Available	Backplanes available	Backplanes Available	25Pair Gold Finger	Backplanes Available
Redundant	Yes	Yes	Yes	Yes	Yes
iC Remote Monitoring	PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus
+5V	-	-	-	-	-
+12V	59A	83.3A (100-120Vac), 150A (200-220Vac), 165A (220-230Vac), 166.7A (230-240Vac); UL/cUL use: 166.7A (200-240Vac)	82A (100-127Vac) 132A (200-240Vac)	62.5A	50A
+3.3V	-	-	-	-	-
5VSB	3A	12Vsb 3.5A	12Vsb 2A	12Vsb 2.1A	3A
-12V	-	-	-	-	-
Efficiency					



Model	PWS-407P-1R	PWS-982P-1R	PWS-706P-1R	PWS-707P-1R	PWS-504P-1R
Total Output Power	400W	850W / 980W	700W / 750W	700W / 750W	500W
Input	100-240Vac / 200-240Vdc / 50-60Hz	100-240Vac / 50-60Hz	200-240Vdc/100-140Vac / 200-240Vac/50-60Hz	200-240Vdc/100-140Vac / 200-240Vac/50-60Hz	100-240Vac / 50-60Hz
Form Factor	1U	1U	1U	1U	1U
Dimension (LxWxH) cm	22 x 5.45 x 4	32 x 5.45 x 4	32 x 5.45 x 4.025	32 x 5 x 4.025	32 x 5.45 x 4.025
Output Type*	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available
Redundant	Yes	Yes	Yes	Yes	Yes
iC Remote Monitoring	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus
+5V	-	-	-	-	-
+12V	33A	70A (100-140Vac) 81A (180-240Vac)	58A (100-140Vac) 62A (200-240Vac) 62A (200-240Vdc)	58A (100-140Vac) 62A (200-240Vac) 62A (200-240Vdc)	42A
+3.3V	-	-	-	-	-
5VSB	3A	4A	3A	4A	4A
-12V	-	-	-	-	-
Efficiency					

Power Supplies



Model	PWS-1K43F-1R	PWS-1K41F-1R	PWS-1K67P-1R	PWS-605P-1H	PWS-341P-1H
Total Output Power	1200W / 1400W	1200W / 1400W	1200W / 1400W / 1600W	600W	340W
Input	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz	100-120 / 120-140 / 200-240Vac / 50-60Hz	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz
Form Factor	1U	1U	Micro-Blade	1U	1U
Dimension (LxWxH) cm	29.8 x 10.5 x 4	29.8 x 10.5 x 4	24.13 x 10.65 x 8.4	28 x 7.6 x 4	28 x 7.6 x 4
Output Type*	Backplanes Available	Backplanes Available	Micro-Blade Midplane	24pin ATX Cable	24pin ATX Cable
Redundant	Yes	Yes	Yes	N/A	N/A
PC Remote Monitoring	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus
+5V	-	-	-	18A	16A
+12V	100A (100-140Vac) 117A (180-240Vac)	100A (100-140Vac) 116A (180-240Vac)	100A (100-120Vac) / 116.7 (120-140Vac) / 133A (200-240Vac)	49A	28A
+3.3V	-	-	-	15A	15A
5VSB	6A	6A	12Vsb 2A	3A	3A
-12V	-	-	-	.5A	.5A
Efficiency					



Model	PWS-203-1H	PWS-601-1H	PWS-505P-1H	PWS-441P-1H	PWS-350-1H
Total Output Power	200W	600W/680W	500W	440W/480W	350W
Input	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz
Form Factor	1U	1U	1U	1U	1U
Dimension (LxWxH) cm	19.3 x 7.6 x 4	22 x 10 x 4	18 x 10 x 4	22 x 10 x 4	18 x 10 x 4
Output Type*	20pin ATX Cable	24pin ATX Cable	24pin ATX Cable	24pin ATX Cable	24Pin ATX cable
Redundant	N/A	N/A	N/A	N/A	N/A
PC Remote Monitoring	N/A	N/A	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus
+5V	8A	20A	15A	18A	15A
+12V	16A	49A (100-140Vac) 56A (180-240Vac)	41A	35.8A (100-140Vac) 39.1A (180-240Vac)	29A
+3.3V	8A	16A	12A	15A	12A
5VSB	2A	3A	3A	3A	3A
-12V	.5A	.5A	.2A	.5A	0.2A
Efficiency					



Model	PWS-351-1H	PWS-1K25P-PQ	PWS-903-PQ	PWS-668-PQ	PWS-502-PQ
Total Output Power	350W	1000/1200W	900W	668W	500W
Input	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz
Form Factor	1U	Tower	Mid-Tower	Mid-Tower	Standard ATX
Dimension (LxWxH) cm	22 x 10 x 4	18.5 x 15 x 8.6	19 x 15 x 8.6	18.5 x 15 x 8.6	14 x 15 x 8.6
Output Type*	24pin ATX Cable	24pin ATX Cable	24 pin ATX Cable	24 pin ATX Cable	24pin ATX Cable
Redundant	N/A	N/A	N/A	N/A	N/A
PC Remote Monitoring	N/A	FRU Data and PMBus	N/A	N/A	N/A
+5V	18A	20A	25A	11.8A	20A
+12V	29A	83A (100-114Vac) 99A (115-240Vac)	12V1 25A; 12V2 25A; 12V3 25A; 12V4 25A	54A	12V1 16A; 12V2 18A; 12V3 18A; 12V4 18A
+3.3V	15A	20A	25A	12A	15A
5VSB	3A	3A	4A	2A	3A
-12V	.5A	.3A	.5A	.1A	.5A
Efficiency					

DC Power Solutions



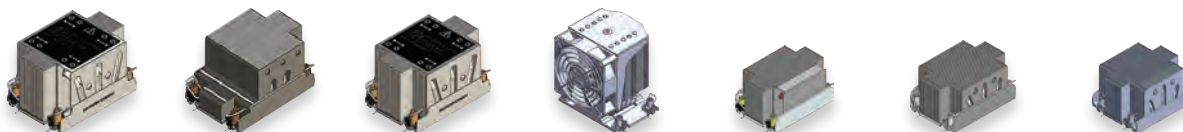
Model	PWS-654-1R	PWS-601D-1R	PWS-1K11P-1R	PWS-711-1R	PWS-1K30D-1R	PWS-1K60D-1R
Total Output Power	650W	600W	850W / 1010W	710W	1300W	1600W
Input	-44Vdc to -72Vdc	-44Vdc to -65Vdc	-36Vdc to -76Vdc	-36Vdc to -76Vdc	-48Vdc to -65Vdc	-48Vdc to -60Vdc
Form Factor	1U	1U	1U	1U	1U	1U
Dimension (LxWxH) cm	32.2 x 5.45 x 4	22 x 5.45 x 4	33.6 x 7.6 x 4	33.6 x 7.6 x 4	20.3 x 7.35 x 4	26.5 x 7.35 x 4
Output Type*	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available	25pairs Gold Finger Connector	25pairs Gold Finger Connector
Redundant	Yes	Yes	Yes	Yes	Yes	Yes
PC Remote Monitoring	FRU Data	FRU Data	FRU Data and PMBus	FRU Data and PMBus	FRU Data	FRU Data and PMBus
+5V	-	-	-	-	-	-
+12V	53.28A	50A	70A (-36 to -42Vdc) 83A (-43 to -76Vdc)	59A	108.3A	133A
+3.3V	-	-	-	-	-	-
5VSB	3A	3A	4A	4A	12Vsb 2.1A	12Vsb 3.5A
-12V	-	-	-	-	-	-
Efficiency	Typical 90%+	Typical 90%+	Typical 90%+	Typical 88%+	-	Typical 90%+



Model	PWS-2K03D-1R	PWS-2K04A-240	PWS-706P-1R	PWS-707P-1R	PWS-407P-1R
Total Output Power	1600W / 2000W	2000W / 1980W / 1800W	700W/750W	700W/750W	400W
Input	-36Vdc to -44Vdc -45Vdc to -66Vdc	230-240Vdc/ 200-220/220-230/230-240Vac/ 50-60Hz	100-140Vac/200-240Vac/ 200-240Vdc 50-60Hz	100-140Vac/200-240Vac/ 200-240Vdc 50-60Hz	100-240Vac/ 200-240Vdc/ 50-60Hz
Form Factor	1U	1U	1U	1U	1U
Dimension (LxWxH) cm	33.6 x 7.6 x 4	33.6 x 7.6 x 4	32 x 5.45 x 4.025	32 x 5 x 4.025	22 x 5.45 x 4
Output Type*	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available
Redundant	Yes	Yes	Yes	Yes	Yes
PC Remote Monitoring	PMBus 1.2	FRU Data and PMbus	FRU Data and PMbus	FRU Data and PMbus	FRU Data and PMbus
+5V	-	-	-	-	-
+12V	133.3A (-36Vdc to -44Vdc) 166.7A (-45Vdc to -66Vdc)	150A (200-220Vac), 165A (220-230Vac), 166.7A (230-240Vac), 166.7A(230-240Vdc)	58A (100-140Vac) / 62A (200-240Vac) / 62A (200-240Vdc)	58A (100-140Vac) / 62A (200-240Vac) / 62A (200-240Vdc)	33A
+3.3V	-	-	-	-	-
5VSB	6A	1A	3A	3A	3A
-12V	-	-	-	-	-
Efficiency	Typical 90%	Typical 96%	Typical 94%	Typical 94%	Typical 94%

Heatsinks (X12)

X12 Heatsinks support 3rd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors



Part Number	SNK-P0078PC	SNK-P0078PR	SNK-P0078P	SNK-P0081AP4	SNK-P0079PC	SNK-P0079P	SNK-P0078PW
Form Factor	2U UP DP	2U UP DP	2U UP DP	4U UP	2U UP DP	2U UP DP	2U UP DP
CPU Type	3rd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors						

X12 Heatsinks



Part Number	SNK-P0078AP4	SNK-P0080AP4	SNK-P0077VM	SNK-P0077P	SNK-P0077PW	SNK-P0077PM	SNK-P0077V
Form Factor	2U UP DP	4U UP DP	1U UP DP	1U UP DP	1U UP DP	1U UP DP	1U UP DP
CPU Type	3rd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors						

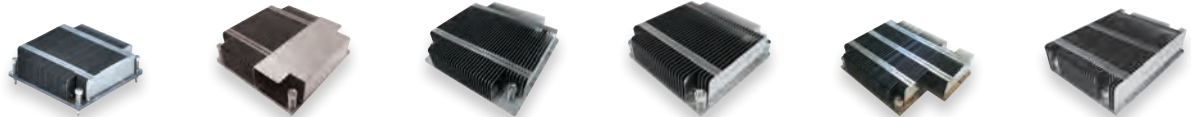
X11 Heatsinks 1U/2U/4U Passive/Active CPU Heatsinks for UP, DP, and MP Systems



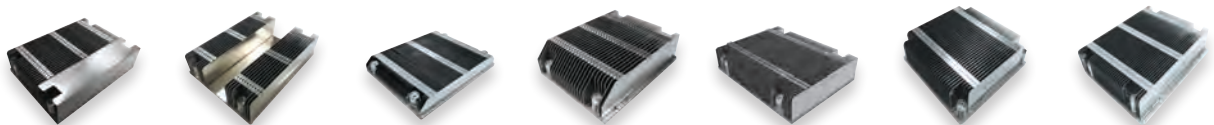
Part Number	SNK-P0067PS	SNK-P0067PSM	SNK-P0067PSMB	SNK-P0068PS	SNK-P0068PSC	SNK-P0068APS4	SNK-P0070APS4
Form Factor	1U Passive Narrow Retention Mechanism UP/DP	1U Passive Proprietary (Middle Air Channel) Narrow Retention Mechanism DP	1U Passive Proprietary (Middle Air Channel) Narrow Retention Mechanism DP	2U Passive Narrow Retention Mechanism UP/DP	2U Passive Proprietary (Side Air Channel) Narrow Retention Mechanism DP	2U Active Narrow Retention Mechanism UP/DP	4U Active Narrow Retention Mechanism UP/DP
CPU Type	Intel® Xeon® Scalable Processors	Intel® Xeon® Scalable Processors	Intel® Xeon® Scalable Processors	Intel® Xeon® Scalable Processors	Intel® Xeon® Scalable Processors	Intel® Xeon® Scalable Processors	Intel® Xeon® Scalable Processors
Socket Type	LGA 3647-0	LGA 3647-0	LGA 3647-0	LGA 3647-0	LGA 3647-0	LGA 3647-0	LGA 3647-0
Major Integrated Part	Copper Fins Copper + Aluminium Base Heat Pipes	Copper Fins Copper + Aluminium Base Heat Pipes	Copper Fins Copper + Aluminium Base Heat Pipes	Copper Fins Copper + Aluminium Base Heat Pipes	Copper Fins Copper + Aluminium Base Heat Pipes	Aluminium Fins Copper + Aluminium Base Heat Pipes Cooling Fan (Front Side)	Aluminium Fins Copper + Aluminium Base Heat Pipes Cooling Fan (Front Side)
Dimension (mm)	108L x 78W x 25.5H	108L x 78W x 25.5H	108L x 78W x 25.5H	108L x 78W x 64H	108L x 78W x 64H	108L x 78W x 64H	108L x 92.5W x 126H
Mounting Method	Springs + Screws	Springs + Screws	Springs + Screws	Springs + Screws	Springs + Screws	Springs + Screws	Springs + Screws

Heatsinks (X11/X10/X9)

X11, X10, and X9 1U Passive CPU Heatsinks for UP, DP, and MP Systems



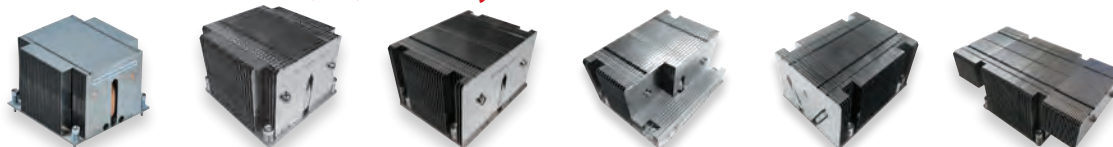
Part Number	SNK-P0037P	SNK-P0041	SNK-P0046P	SNK-P0047P	SNK-P0047PD	SNK-P0047PS
Form Factor	1U Passive, DP	Proprietary 1U Passive, DP (X9DBL Front CPU)	1U Passive, UP (X11/X10/X9)	1U Passive, UP, DP	1U Passive, Proprietary, DP	1U Passive, UP, DP, MP
CPU Type	Intel® Xeon® Processor E5-2400 & Intel® Xeon® Processor E5-2400 v2 product families	Intel® Xeon® Processor E5-2400 & Intel® Xeon® Processor E5-2400 v2 product families	Intel® Xeon® Processor E3-1200 product family; Intel® Core™ i3 Processor; Intel® Pentium® Processor & Intel® Celeron® Processor	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2, and Intel® Xeon® Processor E5-4600 product families
Socket Type	LGA 1356	LGA 1356	LGA 1155/1151/1150	LGA 2011 (Square ILM)	LGA 2011 (Square ILM)	LGA 2011 (Narrow ILM)
Major Integrated Part	Copper + Aluminum Base Aluminum Fins Heat Pipes	Copper Base Aluminum Fins	Copper + Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes
Dimension (mm)	90L x 90W x 27H mm	90L x 90W x 27H mm	95L x 95W x 27H mm	90L x 90W x 26H mm	90L x 110W x 27H mm	104L x 80W x 26H mm
Mounting Method	Screws + Springs	Screws + Springs	Screws + Springs Mounting Bracket (BKT-0028L Included)	Screws + Springs	Screws + Springs	Screws + Springs



Part Number	SNK-P0047PSC	SNK-P0047PSM	SNK-P0047PSR	SNK-P0047PS+	SNK-P0047PW	SNK-P0057P	SNK-P0057PS
Form Factor	Proprietary 1U Passive, DP (1U 3/4 GPU/Coprocessor Front CPU)	Proprietary 1U Passive, DP (2U Twin2+ Front CPU), Twin Pro2	Low Profile Passive, Proprietary, UP (X10/X9), 12-node MicroCloud Servers	Proprietary 1U Passive, UP (X10/X9) (Micro Cloud Server)	Proprietary 1U Passive, DP (2U Twin2 Rear CPU)	1U Passive, UP, DP	1U Passive, UP, DP, MP
CPU Type	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E3-1200 v4/v3/v2 product families; Intel® Core™ i3 Processor; Intel® Pentium® Processor & Intel® Celeron® Processor	Intel® Xeon® Processor E3-1200 v4/v3/v2 product families; Intel® Core™ i3 Processor; Intel® Pentium® Processor & Intel® Celeron® Processor	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2, and Intel® Xeon® Processor E5-4600 product families
Socket Type	LGA 2011 (Narrow ILM)	LGA 2011 (Narrow ILM)	LGA 1150 & LGA 1155	LGA 1155 & LGA 1150, LGA 2011 (Narrow ILM).	LGA 2011 (Square ILM)	LGA 2011 (Square ILM)	LGA 2011 (Narrow ILM)
Major Integrated Part	Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes	Copper + Aluminum Base Copper Fins Heat Pipes	Copper + Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Copper + Aluminum Fins Heat Pipes	Copper + Aluminum Base Copper Fins Heat Pipes	Copper + Aluminum Base Copper Fins Heat Pipes
Dimension	104L x 80W x 26H mm	104L x 80W x 26H mm	104L x 80W x 15H mm	104L x 80W x 30H mm	90L x 116W x 26H mm	90L x 90W x 26H mm	104L x 80W x 26H mm
Mounting Method	Screws + Springs	Screws + Springs	Springs + Screws	Screws + Springs	Screws + Springs	Screws + Springs	Screws + Springs

Heatsinks (X11/X10/X9)

X10 and X9 2U Passive CPU Heatsinks for UP, DP, and MP Systems



Part Number	SNK-P0038P	SNK-P0048P	SNK-P0048PS	SNK-P0048PSC	SNK-P0048PW	SNK-P2048P
Form Factor	2U(+) Passive, DP	2U(+) Passive, UP, DP	2U(+) Passive, UP, DP, MP	Proprietary 2U Passive, DP (2U WIO+ Server)	Proprietary 2U Passive, DP (2U Twin Rear CPU)	Proprietary 2U Passive, DP (HFT Series Servers)
CPU Type	Intel® Xeon® Processor E5-2400 product family & E5-2400 v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 product family and Intel® Xeon® Processor E5-4600 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families
Socket Type	LGA 1356	LGA2011 (Square ILM)	LGA2011 (Narrow ILM)	LGA2011 (Narrow ILM)	LGA 2011 (Square ILM)	LGA2011 (Square ILM)
Major Integrated Part	Copper + Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Copper + Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes
Dimension	90L x 90W x 64H mm	90L x 90W x 64H mm	104L x 80W x 64H mm	104L x 80W x 64H mm	90L x 116W x 64H mm	90L x 170W x 64H mm
Mounting Method	Screws + Springs	Screws + Springs	Screws + Springs	Screws + Springs	Screws + Springs	Screws + Springs

X11, X10, and X9 Active CPU Heatsinks for UP and DP Systems



Part Number	SNK-P0035AP4	SNK-P0040AP4	SNK-P0046A4	SNK-P0048AP4	SNK-P0050AP4	SNK-P2050AP4	SNK-P0051AP4
Form Factor	4U Active, DP	4U Active, DP	2U(+) Active, UP (X11/X10/X9)	2U(+) Active, UP, DP	4U Active, UP, DP	Proprietary 4U Active, DP (HFT Series Servers)	4U Active, UP (X11/X10/X9)
CPU Type	Intel® Xeon® Processor E5-2400 & Intel® Xeon® Processor E5-2400 v2 product families	Intel® Xeon® Processor E5-2400 & Intel® Xeon® Processor E5-2400 v2 product families	Intel® Xeon® Processor E3-1200 v6/v5/v4/v3/v2 product families; Intel® Core™ i3 Processor; Intel® Pentium® Processor & Intel® Celeron® Processor	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E3-1200 v6/v5/v4/v3/v2 product families; Intel® Core™ Processors; Intel® Pentium® Processor & Intel® Celeron® Processor
Socket Type	LGA 1356	LGA 1356	LGA1155/1151/1150	LGA 2011 (Square and Narrow ILMs)	LGA 2011 (Square and Narrow ILMs)	LGA 2011 (Square ILM)	LGA1155/1151/1150
Material	Copper Base Aluminum Fins Heat Pipes Cooling Fan (Front Side)	Copper Base Aluminum Fins Heat Pipes Cooling Fan (Rear Side)	Copper Base Aluminum Fins Cooling Fan (Top)	Aluminum Base Aluminum Fins Heat Pipes Cooling Fan (Front Side)	Copper Base Aluminum Fins Heat Pipes Cooling Fan (Front Side)	Copper Base Aluminum Fins Heat Pipes Cooling Fan (Middle Side)	Copper Base Aluminum Fins Heat Pipes Cooling Fan (Front Side)
Dimension	105L x 100W x 126H mm	105L x 100W x 126H mm	90D x 65H mm	85L x 80W x 65L mm	105L x 93W x 126H mm	96L x 130W x 125H mm	105L x 93W x 128H mm
Mounting Method	Screws + Springs Mounting Bracket (BKT-0023L Included)	Screws + Springs	Push-in Pins	Screws + Springs; Mounting Brackets (BKT-0048L-RS and BKT-0048L-RN Included)	Screws + Springs; Mounting Brackets (for Square and Narrow ILMs Included)	Screws + Springs	Back Plate + Springs + Screws BKT-0028L Included

IPMI (Server Remote Management)

Onboard IPMI 2.0 for (-F) Motherboards/Servers

Onboard IPMI 2.0 for(-F) Motherboards/Servers
Many Supermicro (-F) motherboards now offer IPMI 2.0 capabilities onboard through a dedicated LAN port to support remote management. This convenient remote management capability is provided through an onboard BMC (Baseboard Management Controller) that improves reliability and maintainability while reducing costs. X10 DP motherboards support IPMI 2.0 as a standard feature.

Monitoring Features:

- Monitor CPU and system temperature
- Monitor on-board voltage (12V, 5V, 5Vst_by, Vbat, Vcore, memory voltage)
- Monitor and control fan speed
- Chassis intrusion
- Power status (including PMbus support)
- Memory errors
- CPU errors

Management Features:

- Remote system power control (including ACPI power off)
- Virtual Media and Java based KVM HTML5 (included with price of motherboard)
- SOL (included with price of motherboard)
- E-mail alerts and SNMP traps
- Support for Node Manager
- Mount ISO images

Security Features:

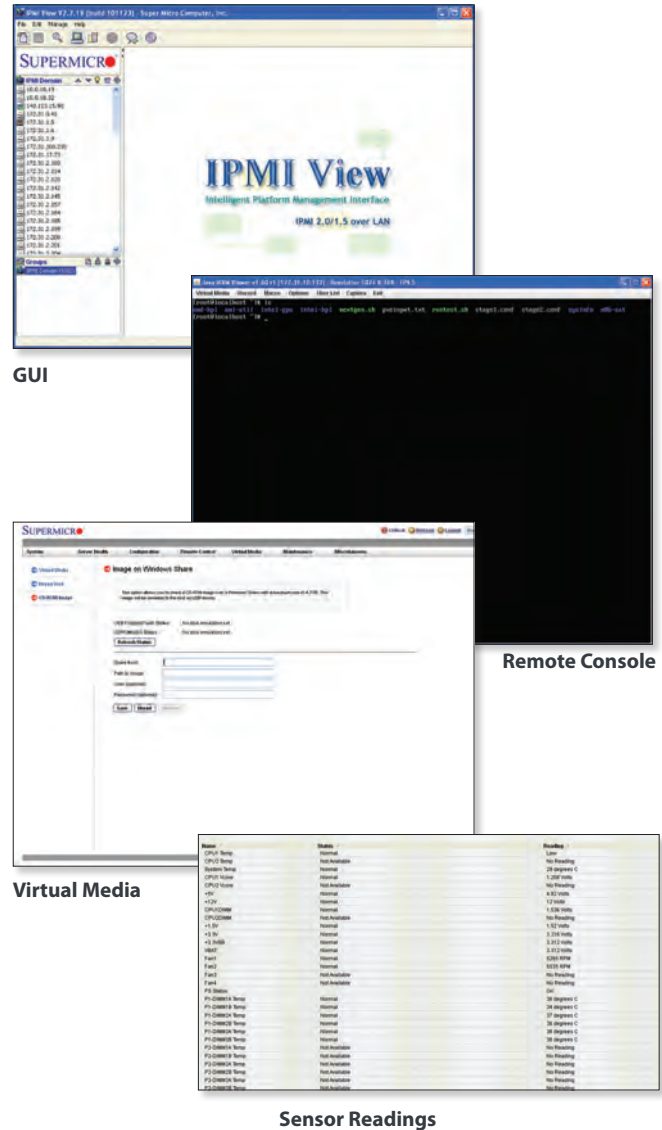
- Firmware firewall
- Restricted access using pre-defined IP address
- Added security with SSL
- Protection from shell injection
- Select/Deselect Services

Easy Maintenance:

- Configuration utility for DOS, Windows, Linux
- Firmware flash utilities for DOS, Windows, Linux (easy to script)
- Firmware flash using web-browser
- Fail-over access to IPMI over network
- CLI, WEBUI, API and GUI tools to maintain large deployments
- Support OOB BIOS management (for selected HW)

Added-value Features:

- SMASH
- DCMi
- Active directory and LDAP
- RADIUS



GUI

Remote Console

Virtual Media

Sensor Readings

SuperDoctor® Server Management

Health Info



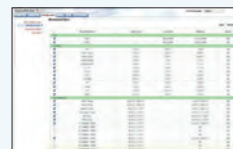
System Info



Configuration - Alerts



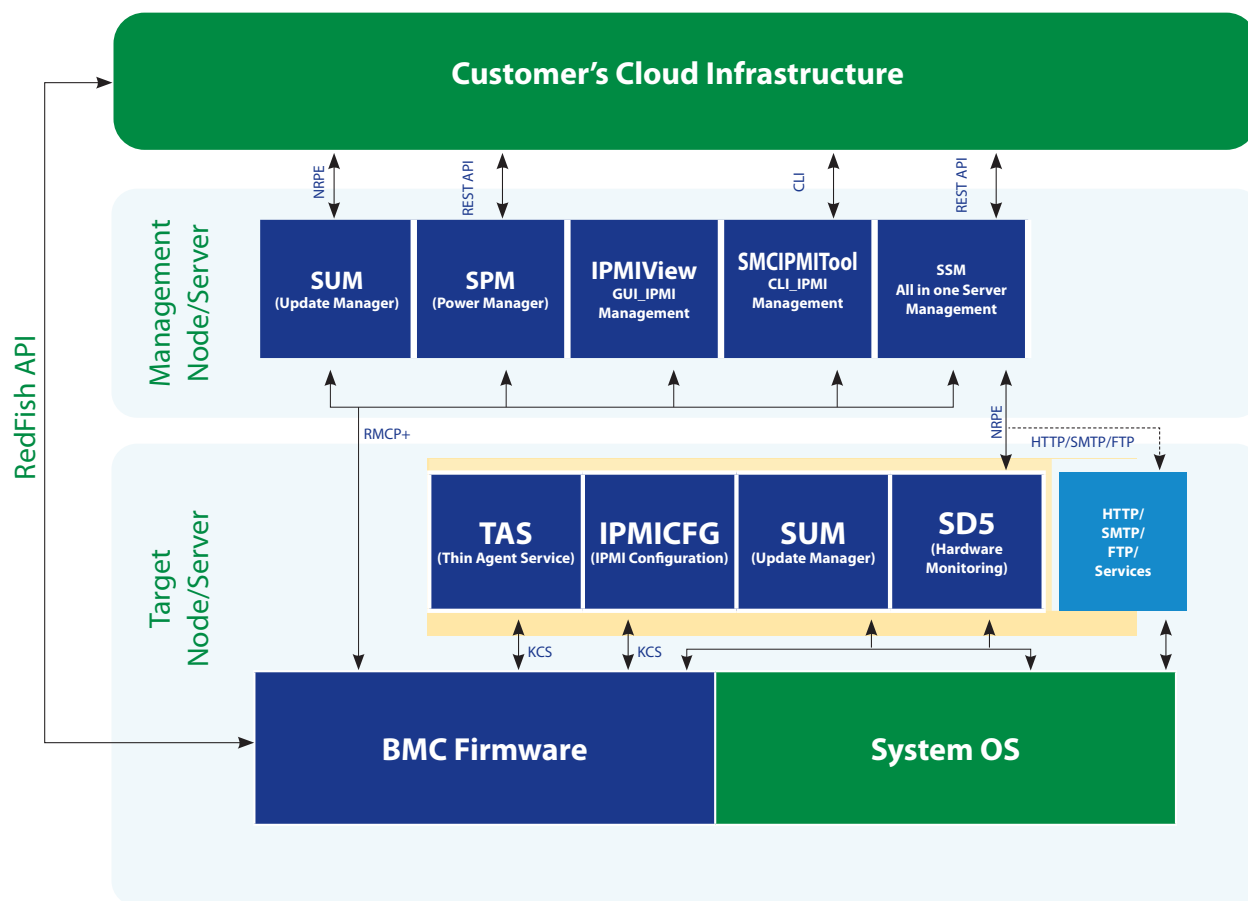
Configuration - Monitor Items



Configuration - Flash BIOS



Server Management Utilities



Supermicro Server Management Utilities

Server management utilities assist data center system administrators to manage hardware issues such as server availability and firmware upgrades to reduce server downtime. Supermicro has developed a multifunction suite of tools that can perform health monitoring, power management and firmware maintenance to help deploy and maintain servers in data centers.

Our solutions are designed for easy automation with existing management infrastructure using CLI and REST APIs. In data centers, Supermicro Server Management Utilities provides you all the necessary functions like:

Remotely managing the health of hardware and operating system services:

Helps IT operators to monitor the health of system components through Agent and Agent-less based solutions

Managing power consumption of nodes in cluster:

Optimize the power consumption of your server rack. Monitor and apply policies to maximize compute density per rack and avoid unexpected server shutdowns.

Managing BIOS provisioning through BMC/IPMI:

Allows you to manage system BIOS upgrades and configurations uniformly across multi-environment deployments through baseboard management controller.

Execute commands on multiple target systems in parallel:

Perform parallel firmware upgrades, system memory and power commands, and many more through SSL and RMCP+.

Execute commands on multiple target systems through Redfish API:

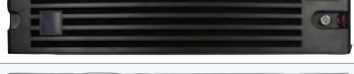
Perform API execution for server health, system inventory, power info, event notification and many more through secure socket layer (SSL).

Software SKUs:

SFT-DCMS-Single:	Per node license for System Management Suite (all packages)
SFT-OOB-LIC:	Per node license for OOB firmware maintenance mechanisms
SFT-SPM-LIC:	Per node license for Power Management Utility

* AMD platform not supported.

Front Bezels/LCD

1U Rackmount Chassis		
OLCD Kit & Accessories <i>Standard 3.5" drive with 0.95 OLED, fit 1x 2.5"HDD, digital color</i>	MCP-220-00119-0B	 
LCD Kit & Accessories <i>5.25" USB LCD Kit</i>	MCP-220-00095-0B	
SC813, SC813M, SC815, SC819 (Redundant Power) series <i>Please contact tech support for LCD programming instruction package</i>	MCP-210-00007-01 (Black)	
SC813, SC813M, SC815, SC818, SC819(U)* (Redundant Power) series <i>Does not support SC818G series</i>	CSE-PTFB-813LB (Black) CSE-PTFB-813L (Beige)	
SC113, SC113M, SC116, SC119(U)*, SC514 series <i>No front LED indicator support</i>	MCP-210-11601-0B (Black)	
SC813, SC813M, SC815, SC818, SC819(U)* (Redundant Power) series <i>Does not support SC818G series</i>	CSE-PTFB-813-02B (Black) CSE-PTFB-813-02 (Beige)	
SC812 series <i>Does not support SC812L series</i>	CSE-PTFB-812 (Beige) CSE-PTFB-812B (Black)	
SC512, SC512L, SC512F-260 series <i>Does not support SC512F-280/350/441/520/600 series</i>	MCP-210-00028-01 (Black) MCP-210-00028-02 (Beige)	
SC512, SC512L, SC512F-260 series <i>Does not support SC512F-280/350/441/520/600 series</i>	MCP-210-00005-01 (Black) MCP-210-00005-02 (Beige)	
SC512, SC512L, SC512F-260 series <i>Does not support SC512F-280/350/441/520/600 series</i> <i>Please contact tech support for LCD programming instruction package</i>	MCP-210-00033-01(OEM) (Black)	
2U Rackmount Chassis		
SC822, SC823 series	CSE-PTFB-820B (Black) CSE-PTFB-820 (Beige)	
SC825, SC828 series	MCP-210-82503-0B (Black)	
SC825M series	MCP-210-82502-0B (Black)	
SC213, SC216, SC217, SC219(U)*, SC226S, SC227(S), SC826(S) SC827, SC829(U)* series	MCP-210-82601-0B (Black)	
3U Rackmount Chassis		
SC835 series	MCP-210-83501-0B (Black)	
SC836, SC837 series	MCP-210-83601-0B (Black)	
4U Rackmount Chassis		
SC842 series	MCP-210-84201-0B (Black)	
SC846, SC847, SC848, SC417, SC418 series	MCP-210-84601-0B (Black)	

* Exception: Do not support auto-latch design handles

SuperRack® Total Solutions



42U Open Frame
SRK-42OR-03
(1016mm Deep)
Generation 2



42U Enclosure
SRK-42SE-03
(1016mm Deep)
Generation 2



42U Open Frame
SRK-42OR-01
(950mm Deep)



42U Open Frame
SRK-42OR-02
(1175mm Deep)



42U Enclosure
SRK-42SE-01
(1000mm Deep)



42U Enclosure
SRK-42SE-02
(1225mm Deep)

Supermicro's SuperRack® systems were designed for ease of integration, implementation, and deployment. Their easy rear access and modularized Building Block design makes them ideal for hot-swap-capable servers, such as Supermicro's Twin and Double-Sided Storage® families. For a rack system that is convenient, reliable, and customizable, the Supermicro SuperRack® is the ideal choice.

Key Features:

Per-U Design - Ground-breaking Per-U design concept simplifies cable management and minimizes integration time

Accessible - Versatile Front and Rear access hot-plug optimizations provide an improved service experience

Optimized Air Flow - Reduced cabling optimizes air flow and improves cooling

Building Block Design - Building-block design and intuitive installation process reduce overall deployment schedules

Expandable - With unique add-on expansion units the SuperRack® easily accommodates many different server configurations

Customizable - Fully customizable options offer a well-rounded total Rack solution and service

SuperRack® Total Solution - Supermicro provides rack configuration, integration, testing, burn-in, and shipping services delivering an integrated rack system to the end-user. Please contact your Supermicro sales representative for details.



- Versatile Front and Rear access hot-plug optimizations



- Per-U Design simplifies cable management and minimizes integration time

SuperRack® Solutions: Pre-Configured, Fully Tested and Application Optimized

- Hadoop Clusters for Big Data Analytics
- Rack Solutions for Virtualization and Cloud Computing
- Rack Solutions for Search Engine, Web 2.0
- HPC Clusters with GPU/Coprocessor Accelerator
- Scale-Out Storage with Extreme Drive Density
- Rack Integration Service from Design to Delivery

For detailed information, please contact your Supermicro sales representative; visit:
<http://www.supermicro.com/products/rack>



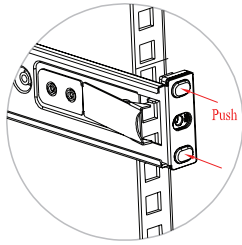
42U SuperRack® Front View

(Rear View)

Quick-Release Slide Rails

The Supermicro Tool-less, Quick-release Slide Rails

Designed for quick and easy installation and access to Supermicro's server equipment. Several different sizes are provided to accommodate a variety of Supermicro server systems.



Model Part#	MCP-290-00054-0N	MCP-290-00062-0N
Product	Optional rail set	Optional rail set
Content	Quick-release inner rail + quick-release outer rail	Quick-release inner rail + quick-release outer rail
Chassis Type	1U, 17.2" width	1U, 17.2" width
Mechanism	Linear	Linear
Outer Rail Extendable Length	25.6"~33.05"	25.6"~33.05"
Compatible Chassis	Optional for SC813, 815	Optional for SC118, 119, 808, 809, 816, 818, 819

For Short-depth Chassis Rack



Model Part#	MCP-290-00052-0N-BULK	MCP-290-00056-0N
Product	Optional outer rail bulk pack	Optional short-depth outer rail
Content	Quick-release outer rail (10 set/pack)	Short quick-release outer rail
Chassis Type	1U, 17.2" width	1U, 17.2" width in short-depth rack
Mechanism	Linear	Linear
Outer Rail Extendable Length	25.6"~33.05"	19"~26.4"
Compatible Chassis	Optional for SC113, 113M, 118, 119, 512F-280/350/410/441/520/600, 515, 514, 808, 809, 813, 813M, 815, 816, 818, 819	Optional for SC113, 113M, 118, 119, 512F-280/350/410/441/520/600, 514, 515, 808, 809, 813, 813M, 815, 816, 818, 819

For Short-depth Chassis Rack



Model Part#	MCP-290-00053-0N	MCP-290-00057-0N	MCP-290-00058-0N
Product	Default rail set	Default rail set	Optional short-depth rail set
Content	Quick-release inner rail + quick-release outer rail	Quick-release inner rail + quick-release outer rail	Quick-release inner rail + quick-release outer rail
Chassis Type	2~3U, 17.2" width	4U, 17.2" width	2~4U, 17.2" width in short-depth rack
Mechanism	Ball-bearing, support round hole racks with adapter MCP-290-00060-0N	Ball-bearing, support round hole racks with adapter MCP-290-00060-0N	Ball-bearing, support round hole racks with adapter MCP-290-00060-0N
Outer Rail Extendable Length	26.5"~36.4"	26.5"~36.4"	19"~26.6"
Compatible Chassis	Default for SC213, 216, 217, 218, 219, 823M, 825, 825M, 826, 827, 828, 829, 835, 836, 837, 936, 937, 938, 939	Default for SC417, 418, 758, 846, 847, 848, optional for SC842	Optional for SC213, 216, 217, 218, 219, 417, 418, 747, 748, 758, 823M, 825, 825M, 826, 827, 828, 835, 836, 837, 842, 846, 847, 848, 936, 937, 938, 939

Cables

External Copper 25 Gb/s

SMCI P/N	Descriptions	Length (m)	Connector	Cable type	Media	Date Rate
CBL-NTWK-0944-SS28C10M	ETHERNET, SFP28, 25Gb/s, PASSIVE, 30 AWG, 1M	1	SFP28	Passive	Copper	25 Gb/s
CBL-NTWK-0944-SS28C20M	ETHERNET, SFP28, 25Gb/s, PASSIVE, 30 AWG, 2M	2				
CBL-NTWK-0944-SS28C30M	ETHERNET, SFP28, 25Gb/s, PASSIVE, 30 AWG, 3M	3				
CBL-NTWK-0944-SS28C50M	ETHERNET, SFP28, 25Gb/s, PASSIVE, 26 AWG, 5M	5				

External Copper 100 Gb/s

SMCI P/N	Descriptions	Length (m)	Connector	Cable type	Media	Date Rate
CBL-NTWK-0943-SQ28C10M	ETHERNET, QSFP28, 100GbE, PASSIVE, 32 AWG, 1M	1	QSFP28	Passive	Copper	100 Gb/s
CBL-NTWK-0943-SQ28C50M	ETHERNET, QSFP28, 100GbE, PASSIVE, 26 AWG, 5M	5				
CBL-NTWK-0942-MQ28C10M	ETHERNET, QSFP28, 100GbE, PASSIVE, 1m, Mellanox	1	QSFP28	Passive	Copper	100 Gb/s
CBL-NTWK-0942-MQ28C20M	ETHERNET, QSFP28, 100GbE, PASSIVE, 2m, Mellanox	2				
CBL-NTWK-0942-MQ28C30M	ETHERNET, QSFP28, 100GbE, PASSIVE, LSZH, 3m, Mellanox	3				
CBL-NTWK-0942-MQ28E10M	InfiniBand, EDR, QSFP28, 100GbE, PASSIVE, LSZH, 1m, Mellanox	1				
CBL-NTWK-0942-MQ28E20M	InfiniBand, EDR, QSFP28, 100GbE, PASSIVE, LSZH, 2m, Mellanox	2				
CBL-NTWK-0942-MQ28E30M	InfiniBand, EDR, QSFP28, 100GbE, PASSIVE, LSZH, 3m, Mellanox	3				

External Copper 10 Gb/s

SMCI P/N	Descriptions	Length (m)	Connector	Cable type	Media	Date Rate
CBL-NTWK-0592	ETHERNET, SFP+, 10GbE, PASSIVE, PULL, 1M, 30AWG	1	SFP+	Passive	Copper	10 Gb/s
CBL-NTWK-0525	ETHERNET, SFP+, 10GbE, PASSIVE, PULL, 3M, 30AWG	3				
CBL-NTWK-0552	ETHERNET, SFP+, 10GbE, PASSIVE, PULL, 5M, 30AWG	5				

External Fiber 10 Gb/s

SMCI P/N	Descriptions	Length (m)	Connector	Cable type	Media	Date Rate
CBL-SFP+AOC-1M-1	ETHERNET, SFP+, 10GbE, FIBER, ACTIVE, PULL, 1M	1	SFP+	Active	Fiber	10 Gb/s
CBL-SFP+AOC-3M-1-ORG	ETHERNET, SFP+, 10GbE, FIBER, ACTIVE, PULL, 3M, Orange	3				
CBL-SFP+AOC-5M-1-ORG	ETHERNET, SFP+, 10GbE, FIBER, ACTIVE, PULL, 5M, Orange	5				
CBL-SFP+AOC-10M	ETHERNET, SFP+, 10GbE, FIBER, ACTIVE, PULL, 10M	10				

External Copper 40 Gb/s

SMCI P/N	Descriptions	Length (m)	Connector	Cable type	Media	Date Rate
CBL-NTWK-0417-01	ETHERNET, QSFP, 40GbE, PASSIVE, 1M, 30AWG	1	QSFP+	Passive	Copper	40 Gb/s
CBL-NTWK-0325-02	ETHERNET, QSFP, 40GbE, PASSIVE, 2M, 26AWG	2				
CBL-NTWK-0446-01	ETHERNET, QSFP, 40GbE, PASSIVE, 3M, 28AWG	3				
CBL-NTWK-0422-01	ETHERNET, QSFP, 40GbE, PASSIVE, 5M, 26AWG	5				

Cables

External Copper 40 Gb/s to 4x 10 Gb/s						
SMCI P/N	Descriptions	Length (m)	Connector	Cable type	Media	Date Rate
CBL-NTWK-0719	ETHERNET, 40GbE/QSFP+ to 4x 10GbE/SFP+, PASSIVE, 1M, 30AWG, Mellanox	1	QSFP+ to 4X SFP+	Passive	Copper	40G to 4x 10G
CBL-NTWK-0720	ETHERNET, 40GbE/QSFP+ to 4x 10GbE/SFP+, PASSIVE, 3M, 30AWG, Mellanox	3				
CBL-NTWK-0721	ETHERNET, 40GbE/QSFP+ to 4x 10GbE/SFP+, PASSIVE, 5M, 25AWG, Mellanox	5				
External Fiber 40 Gb/s						
SMCI P/N	Descriptions	Length (m)	Connector	Cable type	Media	Date Rate
CBL-QSFP+AOC-1M	IB/ETHERNET, QSFP, QDR, 40GbE, FIBER, ACTIVE, PULL, 1M	1	QSFP+	Active	Fiber	40 Gb/s
CBL-QSFP+AOC-5M-1	ETHERNET, QSFP, QDR, 40GbE, FIBER, ACTIVE, PULL, 5M	5				
CBL-QSFP+AOC-10M-1	ETHERNET, QSFP, QDR, 40GbE, FIBER, ACTIVE, PULL, 10M	10				
External Copper 12Gb/s						
SMCI P/N	Descriptions	Length (m)	Connector	Cable type	Media	Date Rate
CBL-SAST-0573	MINI SAS HD, 12G, EXT, 1M, 28AWG	1	miniSAS HD x4	Passive	Copper	12Gb/s
CBL-SAST-0690-1	MINI SAS HD, 12G, EXT, 2M, 30AWG	2				
CBL-SAST-0677	MINI SAS HD, 12G, EXT, 3M, 28AWG	3				
CBL-SAST-1035-1	MINI SAS HD, x8, 12G, EXT, PASSIVE, PULL, 1M, 30AWG	1	miniSAS HD x8	Passive	Copper	12Gb/s
CBL-SAST-1036-1	MINI SAS HD, x8, 12G, EXT, PASSIVE, PULL, 2M, 30AWG	2				
CBL-SAST-1037-1	MINI SAS HD, x8, 12G, EXT, PASSIVE, PULL, 3M, 28AWG	3				
Internal Copper 12Gb/s – Oculink 1.0						
SMCI P/N	Descriptions	Length (cm)	Connector	Cable type	Media	Date Rate
CBL-SAST-0929	OcuLink v 1.0 source to MiniSAS HD, INT, PCI-E, 57CM,34AWG	57	Oculink 1.0	Passive	Copper	
CBL-SAST-0972	OcuLink v 1.0 source to MiniSAS HD, INT, PCI-E, 70CM,34AWG	70				
CBL-SAST-0847	OcuLink v 1.0, INT, PCI-E NVMe SSD, 76CM,34AWG	76				
CBL-SAST-0818	OcuLink v 1.0, INT, PCI-E NVMe SSD, 55CM,34AWG	55				
CBL-SAST-0819	OcuLink v 1.0, INT, PCI-E NVMe SSD, 65CM,34AWG	65				
CBL-SAST-0974-1	OcuLink v 1.0, INT, PCI-E NVMe SSD, 37CM,34AWG	37				
CBL-SAST-0973-1	OcuLink v 1.0, INT, PCI-E NVMe SSD, 25CM,34AWG	25				
Internal Copper 6Gb/s						
SMCI P/N	Descriptions	Length (cm)	Connector	Cable type	Media	Date Rate
CBL-0473L	SATA, INT, ROUND, ST-ST, 21CM, 30AWG	21	7-Pin SATA	Passive	Copper	6Gb/s
CBL-0483L	SATA, INT, ROUND, ST-ST, 29CM, 30AWG	29				
CBL-0484L	SATA, INT, ROUND, ST-ST, 55CM, 30AWG	55				
CBL-0481L	SATA, INT, ROUND, ST-ST, 81CM, 30AWG	81				
CBL-0109L-02	MINI SAS, INT, 22CM, 26AWG	22	miniSAS	Passive	Copper	6Gb/s
CBL-0421L	MINI SAS, INT, 55CM, 26AWG	55				
CBL-0281L-01	MINI SAS, INT, 75CM, 30AWG	75				
Internal Copper 12Gb/s						
SMCI P/N	Descriptions	Length (cm)	Connector	Cable type	Media	Date Rate
CBL-SAST-0550	MINI SAS HD, INT, 25CM, 30AWG	25	miniSAS HD	Passive	Copper	12Gb/s
CBL-SAST-0532	MINI SAS HD, NT, 50CM, 30AWG	50				
CBL-SAST-0531	MINI SAS HD, INT, 80CM, 30AWG	80				
CBL-SAST-0623	MINI SAS HD, INT, 45CM, 85 OHM, 30AWG	45	miniSAS HD	Passive	Copper	12Gb/s
CBL-SAST-0590	MINI SAS HD, INT, 70CM, 30, 85 OHM, AWG	70				
CBI-SAST-0957	Mini SAS HD to PCI-E SFF-8639 w/ Power, 55CM, 45CM 34 AWG	55	miniSAS HD to SFF-8639	Passive	Copper	12Gb/s
CBL-SAST-0956	OcuLink v1.0 to PCI-E SFF-8639 w/ Power, 55CM, 34 AWG	55	Oculink to SFF-8639	Passive	Copper	12Gb/s
CBL-SAST-1011	OcuLink v1.0 to PCI-E SFF-8639 w/ Power, 75CM, 34 AWG	75				

Intel® Omni Path Architecture Switch

100G 48-port Intel® Omni Path Top-of-Rack Switch SSH-C48Q

High Performance, High Density, Low latency, 100-Gigabit Intel® Omni Path Architecture, Meets the Most Demanding Applications for HPC.

Supermicro SuperSwitch Solution Benefit Highlights

- 1U TOR 100 Gb/s 48-Port
- 9.6 Tb/s Switching Capacity
- Optimized for High Message Rates and Low End-to-End Latency
- Out-of-Band Fabric Management Card (Optional)
 - Ethernet (10/100/1000 Base-T) and USB Serial Console
- Redundant Hot-Pluggable 750W **Platinum Level** Power Supplies
- Redundant Cooling



SSH-C48Q



Rear View

The Supermicro SSH-C48Q 1U 48-port top-of-rack network SuperSwitch supports the 100Gb/s Intel® Omni Path Architecture (OPA) providing a unique HPC cluster solution offering excellent bandwidth, latency and message rates that is highly scalable and easily serviceable.

The SSH-C48Q leverages the Intel Scalable System Framework (SSF) to address evolving demands across high performance data analytics, machine learning, visualization, traditional modeling and simulation workloads. Designed specifically for HPC, the 48-port SSH-C48Q offers 9.6 Tb/s total fabric bandwidth and high scalability with the capability of 27,648 nodes in a 2-tier configuration. The Supermicro SSH-C48Q is designed to overcome the scaling challenges of large-sized clusters.

High Message Rate Throughput

The SSH-C48Q is designed to support high message rate traffic from each node through the fabric. That means the fabric can support the high bandwidth as well as high message rate throughput associated with the ever-increasing processing power and core counts of Intel® Xeon® Processor and Coprocessors.

48-port Switch ASIC

With a 48-port design the SSH-C48Q provides improved fabric scalability, reduced latency, increased density, reduced cost, and lower power demand. It is the basis of the SSH-C48Q capacity of 9.6 Tb/s fabric bandwidth and high scalability to 27,648 nodes in 2-tier configurations.

Deterministic Latency

Features in the Intel OPA optimize the performance impacts of large Maximum Transmission Units (MTUs) on small messages. They help maintain consistent latency for inter-process communication (IPC) messages, such as Message Passing Interface (MPI) messages, when large messages—typically storage—are being simultaneously transmitted in the fabric. Intel® OPA can bypass lower priority large packets, giving higher priority to small packets, creating a lower and more predictable latency through the fabric.

Enhanced End-to-End Reliability

The Supermicro SSH-C48Q also delivers its own unique error detection and correction which is more efficient than the forward error correction (FEC) defined in the InfiniBand standard. Enhancements include zero load for detection - if a correction is required, packets only need to be retransmitted from the last link—not all the way from the sending node. This gives near-zero additional latency.

Ports	• 48 x 100 Gb/s ports – QSFP28 • RJ45 1G optional management port • USB serial console port	
Switching	• Switching capacity 9.6 Tb/s total fabric bandwidth • Optimized high message rate • Optimized error detection/correction and low latency • Capability of 27,648 nodes in 2-tier configuration • Virtual lanes: Configurable from one to eight VLs plus one management VL	• Configurable MTU size of 2KB, 4KB, 8KB, or 10KB • Maximum multicast table size: 8192 entries • Maximum unicast table size: 49151 entries • Passive copper or active fiber cables
Management	• Out-of-band management card (optional) • Enables Command Line Interface and Chassis Management GUI through 10/100/1000 Base -T Ethernet	• Enables Serial Console through USB Serial Port • Fabric Management GUI
Physical/Environmental	• Dimensions 17.2" W x 16.6" D x 1.72" H • Weight 16 lbs / 7.26 kg	• Operating Temperature: 0°C to 40°C (32°F to 104°F) • Forward Direction Air Flow
Power	• Redundant Hot-Pluggable 750W Platinum Level Power Supplies • AC Input: 100-127V/200-240 V, 50-60 Hz	• Power consumption: - 210 W (Copper) - 380 W (All max 3W Optical)

Layer 2/3 Ethernet Switches

Enterprise-class performance with advanced switching capabilities in a 1U form factor.
Highly cost-effective 1/10-Gigabit Ethernet Networking – Standalone or Top-of-Rack.



Rear View



Model	SSE-X3348S/SR	SSE-X3348T/TR
Port Attributes	48 Ten-Gigabit Ethernet ports - SFP+ Connectors 4 Forty-Gigabit Ethernet ports - QSFP Connectors 2 One-Gigabit Ethernet ports - RJ45 Connectors - Out-of-band RS-232 Management port	48 Ten-Gigabit Ethernet ports - 10GBase-T RJ45 connectors 4 Forty-Gigabit Ethernet ports - QSFP Connectors 2 One-Gigabit Ethernet ports - RJ45 Connectors - Out-of-band RS-232 Management port - Energy Efficient Ethernet- IEEE 802.3az
Switching Capacity	• 1284 Gb/s	• 1284 Gb/s
Stacking Performance		
Power Consumption	326W (Redundant Power Supplies) - Reverse airflow model available	357W (Redundant Power Supplies) - Reverse airflow model available
Weight	• 18.1 lbs / 8.2 kg	• 20.3 lbs / 9.22 kg
Dimensions (WxDxH)	• 438 x 473 x 43mm (17.3" x 18.6" x 1.7")	• 438 x 473 x 43mm (17.3" x 18.6" x 1.7")
Availability	- Spanning Tree (802.1D) - Rapid Spanning Tree (802.1w)	- Multiple Spanning Trees (802.1s) - Virtual Redundant Routing Protocol (VRRP)
VLAN	802.1Q tagging, port and protocol based - Dynamic VLAN Support (GVRP) 4K Static VLANs	802.1Q tagging, port and protocol based - Dynamic VLAN Support (GVRP) 4K Static VLANs
Quality of Service and DiffServ	8 priority queues per port - Adjusted WRR and Strict Priority Scheduling - Layer 2, 3, 4 Prioritization	- Marking - Metering / Rate limiting
Switching Features	- Link Aggregation - 24 groups with 8 members per group - MLAG support - LACP Support	- Link Layer Discovery Protocol (802.1AB) - Jumbo Frames up to 9KB - Port Mirroring – N to 1, Tx & Rx Configurable
Routing Features	- Static Routing, RIP v1/v2, RIPvng, OSPF v1/v2/v3 and BGP - IPv4 and IPv6 Routing	- VRRP (Virtual Router Redundancy Protocol) - DVMRP (Distance Vector Multicast Routing Protocol)
Multicast	- IGMP Snooping v1, v2, v3 - IGMP v1, v2, v3	- PIM SM, PIM DM - PIM SMv6
Security Features	802.3x Port Based Authentication - Switch access password protection - Layer 2, 3, 4 Access Control Lists (256 rules)	- RADIUS and TACACS+ Authentication - SSH, SSL Encryption
Management Features	- Web-based management interface – HTTP/HTTPS - Telnet - SNMP - Industry standard CLI with telnet, SSH, or local management port - Scripting capability - Command completion - Context-sensitive "Help"	- Multiple levels of user privilege (CLI and Web UI) - SNMP v1, v2, v3 - Four RMON Groups - (1, 2, 3 and 9) - Logging – syslog - Dual firmware images - Configuration file - upload / download
Operating Temperature	• 0 ~ 40°C	• 0 ~ 47°C

Layer 2/3 Ethernet Switches

Non-blocking connectivity, 1U form factor for flexible installation

New!
Convenient, Cost-effective way to ease the transition from 10G to 25G Ethernet

Rear View



Model	SSE-F3548SR (54 Ports)	SSE-F3548S (54 Ports)
Port Attributes	48 Twenty-Five Gigabit Ethernet Ports - SFP28 Connectors 6 100G Ethernet Ports - QSFP28 Connectors 1 One-Gigabit Ethernet ports - RJ45 Connector 1 RJ45 Console port 1 USB port Reverse Airflow	48 Twenty-Five Gigabit Ethernet Ports - SFP28 Connectors 6 100G Ethernet Ports - QSFP28 Connectors 1 One-Gigabit Ethernet ports - RJ45 Connector 1 RJ45 Console port 1 USB port
Switching Capacity	• 3.6Tb	
Power Consumption	• <400W (Redundant Power Supplies)	
Weight	• 18.1 lbs / 8.2 kg	
Dimensions (WxDxH)	• 445 x 515 x 43.5mm (17.5" x 20.2" x 1.7")	
Availability	• Multiple Spanning Tree (802.1D)	
VLAN	4K Static VLANs 802.1Q tagging, port and protocol based	
Quality of Service and DiffServ	8 priority queues per port - Metering / Rate limiting - COS - QoS (with DiffServ) - Storm Control - Flow Control - Marking	
Switching Features	64K MAC address entries - Jumbo frames up to 9KB - Spanning tree - Link Aggregation - LACP Support - MLAG - Storm protection - Loop Protection - Port Mirroring - N to 1. Tx & RX	
Routing Features	• Future Release	
Multicast	• IGMP Snooping v1, v2, v3	
Security Features	- RADIUS and TACACS+ Authentication - SSH/SSL Encryption - Switch access password protection - ACL	
Management Features	- Multiple levels of user privilege (CLI and Web UI) - DHCP Client - Logging - syslog - Configuration file - upload / download - Multiple configuration file upload / download by TFTP and HTTP - NTP - Software upgrade/download - SNMP v1, v2, v3 - Uplink Failure Detection - Web-based management interface HTTP/HTTPS - OpenConf - RESTCONF	
Operating Temperature	• 0°C ~ 45°C (32°F - 113°F)	

Open Networking Ethernet Switches

The SSE-G3648B/SSE-G3648BR, SSE-X3648S/SSE-X3648SR, and SSE-C3632S/SSE-C3632SR switches are ideal for deployment in Data Center, Cloud and Enterprise environments with the capability of handling access for the most demanding applications. All are available as a reverse-airflow model for use in large data centers with alternating hot and cold equipment aisles. And all are equipped with a second, redundant power supply (optional on SSE-G3648B/SSE-G3648BR). Pre-loaded with the Open Network Install Environment (ONIE), all three are ready for your networking operating system of choice. Supermicro recommends the use of Cumulus Linux – these switches are all listed on the Hardware Compatibility List (HCL) of Cumulus Networks. Cumulus Linux is an OS for open networking incorporating a true Linux distribution with extensive networking features plus hardware acceleration of routing and switching functions. By using many of the same tools employed for servers, Cumulus Linux enables affordable scalability with clear CapEx savings and even greater OpEx savings; it unleashes rapid innovation via custom, open source or commercial Linux tools and applications. The embedded X86 Linux-based controller is particularly well suited for running the provisioning tools which are typically used for servers. Contact Cumulus Networks (www.cumulusnetworks.com) for more details and ordering information.

With these bare metal switches Supermicro customers have the opportunity to choose the hardware/software combination that best suits their own individual networking environment. And with Supermicro product reliability and support, customers can rest assured that their investment is truly protected.

New! Layer 2/3



Rear View



New! Layer 2/3



New! Layer 2/3



Model	SSE-G3648B/BR	SSE-X3648S/SR	SSE-C3632S/SR
Port Specifications	48 x 1Gb/s Ethernet RJ45 ports 4 x 10Gb/s Ethernet SFP+ ports - RJ-45 Ethernet management port - RJ45 (for console cable)	48x Ten-Gigabit Ethernet ports – SFP+ 6x Forty-Gigabit Ethernet ports – QSFP+ - RJ-45 (for console cable) - RJ-45 1G Ethernet Management Port - USB	32 x 40Gb/s Ethernet QSFP28 ports 32 x 100Gb/s Ethernet QSFP28 ports 1 x 10Gb/s Ethernet SFP+ ports - RJ-45 Gigabit Ethernet management port - RJ-45 serial console - Type A USB 2.0 port
Data Forwarding	- Switching Capacity – 176Gb/s - Broadcom Helix4 Switch Chip - Wire-speed Layer 3 Routing 1:1 Non-blocking connectivity	- Switching Capacity - 1440 Gb/s - Broadcom Trident II Switch Chip - Wire-speed Layer 3 Routing 1:1 Non-blocking connectivity	- Switching Capacity - 6.4Tbps - Broadcom Tomahawk Switch Chip - Wire-speed Layer 3 Routing 1:1 Non-blocking connectivity
Control Plane	- Intel® CPU 2GB DRAM 8GB SSD - ONIE - Cumulus Linux Ready	- Intel® CPU 4GB DRAM 16GB SSD - ONIE - Cumulus Linux Ready	- Intel® CPU 4GB DRAM 16GB SSD - ONIE - Cumulus Linux Ready
Power	- Hot-pluggable 200W power supply - Optional second redundant power supply - AC Input: 100-127/200-240 V, 50/60 Hz - Power Consumption: < 85.2 Watts	- Redundant, hot-pluggable, 460W power supplies - AC Input: 100-127/200-240 V, 50/60 Hz - Power Consumption: 305 Watts	- Redundant, hot-pluggable, 800W power supplies - AC Input: 100-127/200-240 V, 50/60 Hz - Power Consumption: 650 Watts
Physical/ Environmental	- Weight: Net weight: 8.18kg (with 2 PSUs) - Regular and Reverse Airflow Models - Size (W x D x H): 434 x 320 x 44 mm (17.1 x 11.2 x 1.73 in.) - Temperature: Operating 0°C to 45 °C (32°F to 113°F) - Humidity - Operating: 5% to 95% (non-condensing)	- Weight: Net weight: 10.13kg (22.29 lb with 2 PSUs) - Regular and Reverse Airflow Models - Size (W x D x H): 434 x 550 x 44 mm (17.1 x 21.6 x 1.73 inches) - Temperature: Operating 0°C to 40 °C (32°F to 104°F) - Humidity - Operating: 5% to 95% (non-condensing)	- Weight: Net weight: 10.18kg (22.29 lb with 2 PSUs) - Regular and Reverse Airflow Models - Size (W x D x H): 434x 520 x 44 mm (17.1 x 20.47 x 1.73 inches) - Temperature: Operating 0°C to 40 °C (32°F to 104°F) - Humidity - Operating: 5% to 95% (non-condensing)
General	- Bare metal - ONIE Installed 1U form factor for flexible installation - Mounting Flanges (included)	- Bare metal - ONIE Installed 1U form factor for flexible installation - Mounting Rails (included)	- Bare metal - ONIE Installed 1U form factor for flexible installation - Mounting Rails (included)
Optional Power Supply	- PWS-FRU-G3648-1F Second (for redundancy) power supply for SSE-G3648B. Forward Airflow - PWS-FRU-G3648-1R Second (for redundancy) power supply for SSE-G3648BR. Reverse Airflow		
Compatible Software	- Cumulus Linux - SFT-SMCL1G - Supermicro Ethernet Switch OS NEW!	Cumulus Linux	Cumulus Linux

Product Naming Guide



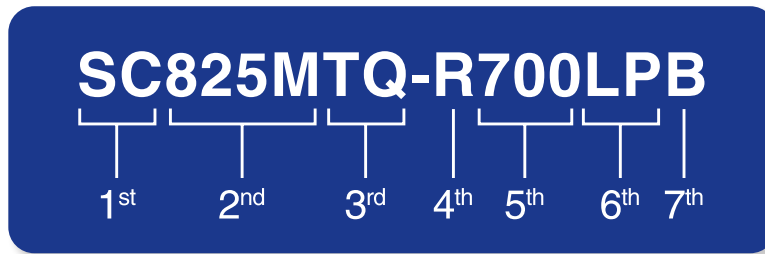
Motherboard Naming Guide

Character	Representation	DP/MP Intel® SKUs	UP Intel® SKUs
1st + 2nd	CPU Type	X12 = 12th gen. Xeon Scalable Processors X11 = 11th gen. Xeon Scalable Processors X10 = 10th generation Intel® Xeon® Processor E5 X9 = 9th generation Intel® Xeon® Processor E5 X8 = 8th generation Intel® Xeon® Processor (QPI 6.4 GT/s)	X12 = 12th gen. Xeon Scalable Processors X12 = 12th gen. Xeon® (E-2300) X11 = 11th gen. Xeon Scalable Processors X11 = 11th gen. Xeon® (E3-1200 v6/v5 / E-2100 / E-2200) X10 = 10th gen. Xeon® (E5-2600 v4/v3, E5-1600 v3) X9 = 9th gen. Xeon® (E5-2600 v2/E5-2600, E5-1600 v2) X8 = 8th gen. Xeon® (QPI 6.4 GT/s) C7 = Intel® Core™ i7 Processor C2 = Intel® Core™ 2 Processor PD = Intel® Xeon® Processor 3000 product family
3rd	Number of CPU Supported	D = Dual Processor sockets Q = Quad Processor sockets	S = Single processor socket
4th	CPU socket / Chipset / Board Type	A = Workstation D = Datacenter Optimized G = GPU Optimized S = Storage Optimized P = Socket P4 (LGA-4189 - X12) P = Socket P0 (LGA 3647 - X11) R = Socket R3 (LGA 2011 - X10) B = Socket B3 (LGA 1356)	A = Workstation P = Purley with Socket P (X11 / X12) S = SkyLake (X11 Greenlow) R = Patsburg with Socket R (X9) R = Grantley with Socket R3 (X10) L = Lynx Point I = Ilex Peak (3420/3400) T = Tatlow (X12 Rocket Lake) / Tylersburg (X58) C = Mehlow (X11 Coffee Lake) / Cougar Point
5th	Controller Support	C = SAS3 12Gb (Broadcom) D = Datacenter Optimized FF = FatTwin Front I/O FR = FatTwin Rear I/O G = GPU Optimized i = SATA L = Cost Optimized	M = Modular Q/O = Four/Eight GPUs S = Storage Optimized T = Twin Architecture U = Ultra Architecture W = WIO Architecture X = Max Expansion
6th	Controller Support	i = SATA only L = Cost Optimized M = Micro ATX G = GPU Optimized T = Twin Architecture D = MicroCloud Architecture W = WIO Architecture	U = UIO Architecture A = Legacy / WS for Socket B2/R/H2/H3/H4 H = Alternative 1 E = Alternative 2 V = Alternative 3 O = 1U Optimized
6th	Controller Support	6 = ASPEED 2600 A = AIOM Support B = BigTwin BH = BigTwin with 3 UPI P = TwinPro C = SAS3 12Gb (Broadcom) E = BMC Enhancement (64MB) HGX2 = HGX2 Optimized i/E = SATA only IBQ = Infiniband QDR IBF = Infiniband FDR IBE = Infiniband EDR	JBOD = JBOD Support L = Cost Optimized LN4 = Four LAN M25 = 25G SFP+ N = NVMe Support R = Intel Ruler NVMe S = SIOM Support T = 10GBase-T T4 = Four 10GBase-T TP = 10G SFP+ FP = 40G SFP+
		F = IPMI LN4 = Four LANs LN6 = Six LANs X = PCI-X 6 = SAS2 (6Gbps) 7 = Broadcom SAS 6Gbps C = Broadcom SAS 12Gbps T = 10Gb LAN	TP = 10G SFP+ D = Dual Nodes S = Cost Optimized N = NVMe support G = Intel Graphics V = VMD/VROC SYS = For System Use Only I = mini-ITX FF



Supermicro installs safety caps on all serverboards to protect the CPU socket pins. Read and follow the important instructions on this protective cap to insure proper product safety. *CPU Socket cap MUST always be in position when the CPU is not installed.*

Product Naming Guide



Chassis Naming Guide

Character	Representation	Options		
1st	Prefix	• SC = Super Chassis (Model Number) • CSE = Super Chassis (Part Number Prefix)		
2nd	Type/Family	2.5" HDD Chassis 1st Digit = Height • 0 = Twin / Extra short • 1 = 1U • 2 = 2U • 3 = 3U / Mid-Tower • 4 = 4U / Tower • 5 = 5U • 6 = 6U	3.5" HDD Chassis 1st Digit = Category • 5xx = Compact size • 7xx = Tower / Workstation • 8xx / 9xx = Rackable chassis • xx6 = Storage chassis • xx9 = Resource Optimized	Mobile Rack 1st Digit (Default = "M")
		2nd Digit = Generation	2nd Digit = Height • 0 = Twin / Extra short • 1 = 1U • 2 = 2U • 3 = 3U / Mid-Tower • 4 = 4U / Tower • 5 = 5U • 6 = 6U	2nd Digit = # of 5.25" Bays
		3rd Digit = Category • 1 = Cost Effective Series • 2 = Standard Series • 3 = High-end Series • 6 = Storage Series • 8 = MP motherboard Series • 9 = Resource Optimized	3rd Digit = Generation	3rd Digit = # of 2.5" HDD Converted
		4th Digit = Type (multiple types possible) • (none) = Regular • E = Lower Cost (Economic) • F = Modified Fan (originally use blower) • H = Specialized for Intel® Itanium 2 • L = Cost Effective • M = Short-depth • + = Specialized for AMD MBs (can be placed after backplane type)	4th Digit = Type (multiple types possible) • (none) = Regular • E = Lower Cost (Economic) • F = Modified Fan (originally use blower) • H = Specialized for Intel® Itanium 2 • L = Cost Effective • M = Short-depth • X = 10+ Slots • + = Specialized for AMD MBs (can be placed after backplane type)	
3rd	Backplane Type	• (none) = No backplane design • A = SAS2/SATA3 with iPass direct-attach connection • AC(##) = SAS3/SATA3 & (##) of NVMe drives with Mini-SAS HD direct-attach connection • E1/E16 = SAS(2)/SATA(3) with 1 expander • E2/E26 = SAS(2)/SATA(3) with 2 expanders • E1C = SAS3/SATA3 with 1 expander • E2C = SAS3/SATA3 with 2 expanders	• H / HD / HQ = Hot-swap MB nodes design • i = No backplane SKU • S / S1 = SCSI (Single-Channel) • S2 = SCSI (Dual-Channel) • TQC = SAS3	• T = SAS / SATA • TQ = SAS / SATA with SES2 support • TS = Backplane not installed • TG / G = GPU/Coprocessor optimized
4th	Power Supply	• (none) = Non-redundant power supply • R = Redundant power supply		
5th	Power Supply Wattage	• (example: 900 = 900 Watts)		
6th	Rear Window I/O	• (none) = Optimized (may not be standard) • C = Standard I/O Rear Window	• LP = Low Profile Rear Window • RC = Rear Window for Riser Cards, Type I • W = WIO	• RC2 = Rear Window for Riser Cards, Type II • U = UIO Rear Window
7th	Chassis Color	• (none) = Beige • B = Black • V = Silver		

Product Naming Guide

RSC- F 2 FR - A 6 6 X 2

1 2 3 4 5 6

Riser Card

Character	Representation	Options			
1st	Part Number Prefix	RSC: Riser Cards (New Naming Convention) CSE: Riser Cards (Old Naming Convention)			
2nd	Product Category	S: Standard U: Ultra W: WIO G: GPU T: Twin		F: FATTWIN M: Micro Blade B: Super Blade C: Micro Cloud	
3rd	Form Factor	1: 1U 2: 2U 3: 3U		4: 4U 5: 5U	
4th	Location	R: Right hand side F: Front IO/Front of the MB N6 = 6 NVMe ports		B: Rear IO/Back of the MB M: Middle of the MB	
5th	Output	U: UIO 4/8/6: PCI-E x4/x8/x16 X: PCI-X		A: Active Riser Card X33: PCI output	
6th	MB Type/Spec:	PR: Proprietary + : Additional Features E: MB with Spec H: Support AMD MB Only		UP: Support UP MB X: Support X10 MB & above X1: Support X11 MB & above X2: Support X12 MB & above	

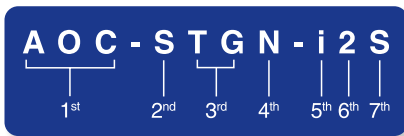
SSD-DMAAA-BBCDEFG

1 2 3 4 5 6 7 8 9

SATA DOM Module

Character	Representation	Options			
1st	Storage Module Type	SSD = Solid State Disk			
2nd	Form Factor (DM)	SATA DOM			
3rd	Capacity (AAA)	016 = 16GB	032 = 32GB	064 = 64GB	128 = 128GB
4th	Controller (BB)	PHI = Vendor A SM = Vendor B			
5th	Temperature Rating (C)	C = Commercial Temperature I = Industrial Temperature			
6th	Flash Type (D)	S = SLC M = MLC T = TLC			
7th	Profile (E)	V = Vertical	H = Horizontal		
8th	Configuration (F)	N = Normal	S = SED		
9th	Reserved (G)	1 = Initial Released Version			

Product Naming Guide



Network Adapter

Character	Representation	Options	
1 st	Product Family	AOC = Add On Card	
2 nd	Form Factor	U = UIO S = Standard P = Proprietary C = MicroLP	M = Supermicro IO Module (SIOM) MH = SIOM Hybrid
3 rd	Product Type/Speed	G = GbE (1Gb/s) TG = 10GbE (10Gb/s) IBF = IB FDR (56Gb/s) IBQ = IB QDR (40Gb/s) INF = IB DDR (20Gb/s)	25G = 25GbE (25Gb/s) 40G = 40GbE (40Gb/s) 100G = 100GbE (100Gb/s) HFI = Host Fabric Interface (100Gb/s)
4 th	Chipset Model (optional)	N = Niantec (82599) F = Fortville (XL710/X710)	P = Powerville (i350) S = Sageville (X550)
5 th	Chipset Manufacturer (optional)	i = Intel m = Mellanox	b = Broadcom
6 th	Number of Ports	1 = 1 port 2 = 2 ports	4 = 4 ports
7 th	Connector Type (optional)	S = SFP+/SFP28 Q = QSFP+	T = 10GBase-T C = QSFP28



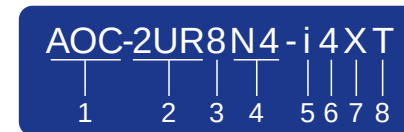
NVMe Add On Card

Character	Representation	Options
1 st	Product Family	AOC = Add On Card
2 nd	Expansion slot interface	S = Standard PCI
3 rd	Card height	L = Low Profile M = Smaller Profile
4 th	Expansion slot interface version	G3 = PCI-E Gen3
5 th	Ports	12 = 12 ports 8 = 8 ports 4 = 4 ports 2 = 2 ports
6 th	Protocol	E = NVMe H = Hybrid
7 th	Total # of PCI-E lanes per port (dedicated or distributed) or PCI-E expansion slot length	2 = 2 lanes per port 4 = 4 lanes per port 8 = x8 slot F = x16 slot
8 th	AOC type	R = MiniSAS HD Re-driver T = OCuLink Re-timer P = OCuLink PLX switch (no "P" means MiniSAS HD PLX) M2 = M.2 Carrier
9 th	Additional	F = Unique form factor



SIOM Network Adapter

Character	Representation	Options	
1 st	Product Family	AOC = Add On Card	
2 nd	Form Factor	S = Standard P = Proprietary C = MicroLP	M = Super IO Module (SIOM) MH = SIOM Hybrid
3 rd	Product Type/Speed	G = GbE (1Gb/s) TG = 10GbE (10Gb/s) 25G = 25GbE (25Gb/s) 40G = 40GbE (40Gb/s) 50G = 50GbE (50Gb/s) 100G = 100GbE (100Gb/s)	IBF = IB EDR (100Gb/s) IBF = IB FDR (56Gb/s) IBQ = IB QDR (40Gb/s) HFI = Host Fabric Interface
4 th	Chipset Model (optional)	N = Niantec (82599) F = Fortville (XL710/X710)	P = Powerville (i350) S = Sageville (X550)
5 th	Chipset Manufacturer	i = Intel m = Mellanox	b = Broadcom
6 th	Number of Ports	1 = 1 port 2 = 2 ports	4 = 4 ports
7 th	Connector Type (optional)	S = SFP+/SFP28 Q = QSFP+	T = 10GBase-T C = QSFP28
8 th	2nd Controller/Connector Type (optional)	G = GbE RJ45 S = 10G SFP+ 2G = GbE 2x RJ45	T = 10GBase-T 2T = 2x 10GBase-T



Ultra Networking Riser Card

Character	Representation	Options	
1 st	Product Family	AOC : Add On Card	
2 nd	Form Factor	UR : Ultra Riser for 1U 2UR : Ultra Riser for 2U	
3 rd	PCI-E Expansion Slots	8 : PCI-E x8 6 : PCI-E x16	
4 th	NVMe Ports (Optional)	N2 : Two NVMe ports N4 : Four NVMe ports N6 : Six NVMe ports	
5 th	LAN Chipset Manufacturer	i : Intel M : Mellanox B : Broadcom	
6 th	Number of Ports	1 : One port 2 : Two ports 4 : Four ports	
7 th	Controller Type	G : GbE X : 10GbE T : 25GbE	Q : 40GbE F : 50GbE C : 100GbE
8 th	Connector Type (Optional)	S : SFP+ T : 10GBase-T	
9 th	Chipset Model (Optional)	F : Fortville (XL710/X710)	



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