

S5200 SPEC SHEET





DELL EMC POWERSWITCH S5200-ON SERIES SWITCHES

High-performance, open networking 25GbE top-of-rack and 100GbE spine/leaf switches

The PowerSwitch S5200-ON 25/100GbE fixed switches comprise Dell Technologies' latest disaggregated hardware and software data center networking solutions, providing state-of-the-art, high-density 25/100GbE ports and a broad range of functionality to meet the growing demands of today's data center environment. These innovative, next-generation open networking switches offer optimum flexibility and cost-effectiveness for web 2.0, enterprise, mid-market and cloud service provider with demanding compute and storage traffic environments.

The S5200-ON is a complete family of switches:12-port, 24-port, and 48-port 25GbE/100GbE ToR switches, 96-port 25GbE/100GbE Middle of Row (MoR)/End of Row (EoR) switch, and a 32-port 100GbE Multi-Rate Spine/Leaf switch. From the compact half-rack width S5212F-ON providing an ideal form factor for hyper-converged deployments, to the high density S5296F-ON for Middle of Row deployments, the S5200-ON series offers performance and flexibility for a variety of network designs.

In addition to 100GbE Spine/Leaf deployments, the S5232F-ON can also be used in high density deployments using breakout cables to achieve up to 128 10GbE or 128 25GbE ports.

Using industry-leading hardware and a choice of Dell EMC SmartFabric OS10 or select 3rd party network operating systems and tools, the S5200-ON switches incorporate multiple architectural features that optimize data center network flexibility, efficiency and availability, including IO panel to PSU or PSU to IO panel airflow for hot/cold aisle environments, redundant, hot-swappable power supplies and fans and deliver non-blocking performance for workloads sensitive to packet loss.

Priority-based flow control (PFC), data center bridge exchange (DCBX) and enhanced transmission selection (ETS) make the S5200-ON family ideally suited for DCB environments.

Dell EMC PowerSwitch S5200-ON switches support the open source Open Network Install Environment (ONIE) for zero touch installation of Dell EMC SmartFabric OS10 networking operating system, as well as alternative network operating systems.

Key applications

- Organizations looking to enter the software-defined data center era with a choice of networking technologies designed to maximize flexibility
- High-density 10/25GbE ToR server aggregation in highperformance data center environments at the desired fabric speed with the S5248F-ON or S5296F-ON
- Low-density 10/25GbE server and storage aggregation with the S5212F-ON and S5224F-ON
- Small-scale Fabric implementation via the S5232F-ON switch in leaf and spine along with S5248F-ON 1/10/25GbE ToR switches enabling cost-effective aggregation of 10/25/40/50/100 uplinks
- Multi-functional 10/25/40/50/100GbE switching in High Performance Computing Clusters or other business-sensitive deployments requiring the highest bandwidth.
- iSCSI deployments, including DCB converged lossless transactions
- Single-pass VXLAN routing

Key features

- 1 or 2RU high-density ToR switches with up to 48 or 96 ports of 25GbE or 32 ports of 100GbE
- Multi-rate 100GbE ports support 10/25/40/50/100GbE
- Scalable L2 and L3 Ethernet switching with QoS and a full complement of standards-based IPv4 and IPv6 features, including OSPF and BGP routing support
- Line-rate performance via non-blocking switch fabrics: 3.2Tbps (6.4Tbps full-duplex) on S5296F-ON and S5232F-ON, 2.0Tbps (4.0Tbps full-duplex) on S5248F-ON, and 1.08Tbps (2.16Tbps full-duplex) on S5224F-ON and S5212F-ON
- L2 multipath support via Virtual Link Trunking (VLT) and Routed VLT support

- VXLAN gateway functionality support for bridging and routing the non-virtualized and the virtualized overlay networks with line rate performance
- Support for Dell EMC SmartFabric OS10
- Converged network support for DCB, with priority flow control (802.1Qbb), ETS (802.1Qaz), DCBx and iSCSI TLV support
- Routable RoCE to enable convergence of compute and storage on Leaf/Spine Fabric
- IO panel to PSU airflow or PSU to IO panel airflow Redundant, hot-swappable power supplies and fans on most models
- Supports the open source Open Network Install Environment (ONIE) for zero touch installation of alternate network operating systems
- Tool-less enterprise ReadyRails™ mounting kits for most models reducing time and resources for switch rack installation (S5212F-ON will utilize a tandem tray for mounting)
- Power-efficient operation and Dell Fresh Air 2.0 compliant up to 45°C helps reduce cooling costs in temperature constrained deployments

Key features with Dell EMC SmartFabric OS10

- Consistent DevOps framework across compute, storage and networking elements
- Standard networking features, interfaces and scripting functions for legacy network operations integration

- Standards-based switching hardware abstraction via Switch Abstraction Interface (SAI)
- Pervasive, unrestricted developer environment via Control Plane Services (CPS)
- Dell EMC SmartFabric OS10 software enables Dell EMC layer 2 and 3 switching and routing protocols with integrated IP services, quality of service, manageability and automation features
- OS10 supports Precision Time Protocol (PTP, IEEE 1588v2) to synchronize clocks on network devices
- Increase VM Mobility region by stretching L2 VLAN within or across two DCs with unique VLT capabilities
- Scalable L2 and L3 Ethernet Switching with QoS, ACL and a full complement of standards based IPv4 and IPv6 features including OSPF, BGP and PBR
- Enhanced mirroring capabilities including local mirroring, Remote Port Mirroring (RPM), and Encapsulated Remote Port Mirroring (ERPM)
- Converged network support for Data Center Bridging, with priority flow control (802.1Qbb), ETS (802.1Qaz), DCBx and iSCSI TLV
- BGP EVPN with Integrated Routing and Bridging (IRB) in both Asymmetric and Symmetric modes, enabling controller less NVO

Features	S5212F-ON	S5224F-ON	S5248F-ON	S5296F-ON	S5232F-ON
Ports	12xSFP28 3xQSFP28	24xSFP28 4xQSFP28	48xSFP28 2xQSFP28-DD 4xQSFP28	96xSFP28 8xQSFP28	32xQSFP28 2xSFP+
Max 10GbE density	24	40	80	128	126
Max 25GbE density	24	40	80	128	124
Max 40GbE density	3	4	8	8	32
Max 50GbE density	6	8	16	16	64
Max 100GbE density	3	4	8	8	32
Switching capacity	1.08 Tbps (2.16 Tbps full duplex)	1.08 Tbps (2.16 Tbps full duplex)	2.0 Tbps (4.0 Tbps full duplex)	3.2 Tbps (6.4 Tbps full duplex)	3.2 Tbps (6.4 Tbps full duplex)
Throughput	892 Mpps	954 Mpps	1.9 Bpps	1.5 Bpps	1.5 Bpps

Features	S5212F-ON	S5224F-ON	S5248F-ON	S5296F-ON	S5232F-ON
Latency (nano sec)	906	881	847	850	877
1588v2 PTP timing (hardware)		•	•	•	•
CPU Memory	8GB	8GB	16GB	16GB	16GB
SSD	16GB	32GB	64GB	64GB	64GB
Packet Buffer	32MB	32MB	32MB	32MB	32MB
Maximum power	304W	455W	647W	893W	635W
Typical power	140W	200W	310W	457W	360W
Maximum current	2.8A@110VAC / 1.4A@220VAC	4.2A@110VAC / 2.1A@220VAC	5.8A@110VAC / 2.9A@220VAC	8.2A@110VAC / 4.1A@220VAC	5.8A@110VAC / 2.9A@220VAC
Fan modules	Fixed	4	4	4	4
Form Factor	1RU (half-width)	1RU	1RU	2RU	1RU
Dimensions	8.2"Wx19.3"D x1.6"H 20.9Wx49.0D x4.1H (cm)	17.1"Wx18.1"D x1.7"H 43.4Wx46.0D x4.4H (cm)	17.1"Wx18.1"D x1.7"H 43.4Wx46.0D x4.4H (cm)	17.4"Wx20.1"D x3.4"H 44.2Wx51.1D x8.7H (cm)	17.1"Wx18.1"D x1.7"H 43.4Wx46.0D x4.4H (cm)
Weight	4.5kg (10.05lbs)	9.7kg (21.4lbs)	9.7kg (21.4lbs)	15.1kg (33.2lbs)	9.8kg (21.6lbs)
Max thermal output	1037 BTU/h	1552 BTU/h	2208 BTU/h	3047 BTU/h	2167 BTU/h

Product	Description
\$5200-ON	S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x AC PSU, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10 S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x AC PSU, PSU to I/O Panel Airflow, Dell EMC SmartFabric OS10 S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x DC PSU, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10 S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x DC PSU, I/O Panel airflow, Dell EMC SmartFabric OS10 S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x DC PSU, PSU to I/O Panel Airflow, NO-OS S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x AC PSU, I/O Panel to PSU Airflow, NO-OS S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x AC PSU, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10, TAA S5212F, 12x 25GbE SFP28 + 3x 100GbE QSFP28, 2x AC PSU, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10, TAA S5212F, 12x 25GbE SFP28 + 4x 100GbE QSFP28, 2x AC PSU, PSU to I/O Panel Airflow, Dell EMC SmartFabric OS10 S5224F, 24x 25GbE SFP28 + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10 S5224F, 24x 25GbE SFP28 + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, Dell EMC SmartFabric OS10 S5224F, 24x 25GbE SFP28 + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, Doll EMC SmartFabric OS10 S5224F, 24x 25GbE SFP28 + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, Doll EMC SmartFabric OS10 S5224F, 24x 25GbE SFP28 + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, Doll EMC SmartFabric OS10, TAA S5224F, 24x 25GbE SFP28 + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, Dell EMC SmartFabric OS10, TAA S524F, 48x 25GbE SFP28 + 2x 200GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, Dell EMC SmartFabric OS10, TAA S524F, 48x 25GbE SFP28 + 2x 200GbE QSFP28-DD + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10 S5248F, 48x 25GbE SFP28 + 2x 200GbE QSFP28-DD + 4x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, Dell EMC

Product	Description
\$5200-ON	S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10 S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, Dell EMC SmartFabric OS10 S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, NO-OS S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, NO-OS S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10, TAA S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, Dell EMC SmartFabric OS10, TAA S5296F, 96x 25GbE SFP28 + 8x 100GbE QSFP28, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, Dell EMC SmartFabric OS10, TAA
	Airflow, Dell EMC SmartFabric OS10 S5232F, 32x 100 GbE QSFB28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, Dell EMC SmartFabric OS10 S5232F, 32x 100 GbE QSFB28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, NO-OS S5232F, 32x 100 GbE QSFB28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, NO-OS S5232F, 32x 100 GbE QSFB28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, I/O Panel to PSU Airflow, Dell EMC SmartFabric OS10, TAA S5232F, 32x 100 GbE QSFB28 + 2x 10GbE SFP+, 2x AC PSU, Fan modules, PSU to I/O Panel Airflow, Dell EMC SmartFabric OS10, TAA
Redundant power supplies	AC Power Supply, IO Panel to PSU Airflow AC Power Supply, PSU to IO Panel Airflow DC Power Supply, IO Panel to PSU Airflow (available as custom kit) DC Power Supply, PSU to IO Panel Airflow (available as custom kit)
Fans	Fan module, IO Panel to PSU Airflow Fan module, PSU to IO Panel Airflow
Optics	Transceiver, 2x100GbE, 2xSR4, QSFP28-DD Transceiver, 2x100GbE, 2xPSM4-IR, QSFP28-DD Transceiver, 2x100GbE, Sx4 QSFP28 Transceiver, 100GbE, SR4 QSFP28 Transceiver, 100GbE, PSM4 (500m) QSFP28 Transceiver, 100GbE, CWDM4 (2Km) QSFP28 Transceiver, 100GbE, LR4 QSFP28 Transceiver, 40GbE, SR4 optic QSFP+ Transceiver, 40GbE, BIDI optic QSFP+ (Duplex) Transceiver, 40GbE, SM4 optic QSFP+ (Duplex) Transceiver, 40GbE, LM4 optic QSFP+ (Duplex) Transceiver, 40GbE, LR4 optic QSFP+ Transceiver, 40GbE, LR4 optic QSFP+ Transceiver, 40GbE, LR4 optic QSFP+ Transceiver, 25GbE, SR, NOF SFP28 Transceiver, 25GbE, SR, NOF SFP28 Transceiver, 10GbE, SR SFP+, short reach Transceiver, 10GbE, SR SFP+, long reach Transceiver, 10GbE, ER SFP+, extended reach Transceiver, 10GBE, ZR SFP+ extra extended reach 10G, Transceiver, 10GBE, SR SFP+ extra extended reach 10G, Transceiver, 10GBE, SX SFP Transceiver, 10GBE, LX SFP Transceiver, 10GBE, SX SFP
Cables	100GbE, 4x25GbE, QSFP28 to 4xSFP28, passive DAC 100GbE, QSFP28 to QSFP28, active optical 100GbE, QSFP28 to QSFP28, passive DAC 100GbE, 2x50GbE, 2xQSFP to 2xQSFP28, passive DAC, breakout 40GbE, QSFP+ to QSFP+, active optical 40GbE, QSFP+ to QSFP+, passive DAC 40GbE, MTP to 4xLC optical breakout 40GbE, 4x10GbE, QSFP+ to 4xSFP+, passive DAC
Cable management	Z9100 Cable Breakout Kit, MTP to LC (1RU 64-port LC over MMF) Z9100 Cable Breakout Kit, MTP to LC (1RU 64-port LC over SMF)

Technical specifications

reclifical specifications				
Physical	1350	TFTP	3579 Radius support for EAP	
1 RJ45 console/management port with RS232	2474	Differentiated Services	3580 802.1X with RADIUS	
signaling	2698	Two Rate Three Color Marker	3826 AES Cipher in SNMP	
S5212F-ON: 12x25GbE SFP28 + 3x 100GbE	3164	Syslog	1492 TACACS (Authentication, Accounting	g)
QSFP28	4254	SSHv2	Control Plane, VTY & SNMP ACLS	
S5224F-ON: 24x25GbE SFP28 + 4x 100GbE QSFP28		IPv4 Protocols	IP Access Control Lists	
S5248F-ON: 48x25GbE SFP28 + 4x 100GbE	791	IPv4	BGP	
QSFP28 + 2x100GbE QSFP28-DD	792	ICMP	1997 Communities	
S5296F-ON: 96x25GbE SFP28 + 8x 100GbE	826 1027	ARP Proxy ARP	2385 MD5 2439 Route Flap Damping	
QSFP28	1027	DNS (client)	2796 Route Reflection	
S5232F-ON: 32x100GbE QSFP28 ports +	1042	Ethernet Transmission	2918 Route Refresh	
2xSFP+ 10GbE	1191	Path MTU Discovery	3065 Confederations	
Environmental	1305	NTPv4	4271 BGP-4	
Power supply: 100-240 VAC 50/60 Hz	1519	CIDR	2545 BGP-4 Multiprotocol Extensions for	
Max Operating specifications:	1588v2	PTP support	IPv6 Inter-Domain Routing	
AC Max. Operating specifications:	1812	Routers, Static Routes	2858 Multiprotocol Extensions	
Operating temperature: 32° to 113°F (0° to 45°C)	1858 2131	IP Fragment Filtering DHCPv4 (server and relay)	4360 Extended Communities 4893 4-byte ASN	
Operating humidity: 5 to 90% (RH),	5798	VRRPv3	5396 4-byte ASN Representation	
non-condensing	3021	31-bit Prefixes	5492 Capabilities Advertisement	
Max. Non-operating specifications:	1812	Requirements for IPv4 Routers	draft-ietf-idr-add-paths-04.txt ADD PATH	
Storage temperature: –40° to 158°F	1918	Address Allocation for Private	Linux Distribution	
(-40° to 70°C)		Internets	Debian Linux version 9	
Storage humidity: 5 to 90% (RH), non-	2474	Diffserv Field in IPv4 and Ipv6	Linux Kernel 4.9	
condensing	0507	Headers	Network Management and Monitoring	
Fresh air Compliant to 45°C	2597 3195	Assured Forwarding PHB Group Reliable Delivery for Syslog	SNMPv1/2c	
Redundancy	3246	Expedited Forwarding PHB Group	IPv4/IPv6 Management support (Telnet, FTP,	
Hot swappable redundant power Hot swappable redundant fans (fixed power	VRF (BG		TACACS, RADIUS, SSH, NTP)	
supply and fans on S5212F-ON)	•	IPv6 Protocols	Syslog	
, ,	1981	Path MTU for IPv6	Port Mirroring	
Performance Packet buffer memory: 32MB	2372	IPv6 Addressing	RPM/ERPM 3176 SFlow	
CPU memory: 16GB	2460	IPv6 Protocol Specification	Support Assist (Phone Home)	
MSTP: 64 instances	2461	Neighbor Discovery	RestConf APIs (Layer 2 features)	
LAG load balancing: Based on layer 2, IPv4 or	2462	Stateless Address AutoConfig	XML Schema	
IPv6 headers	2711 2463	IPv6 Router alert ICMPv6	CLI Commit (Scratchpad)	
IEEE Compliance	2463	Ethernet Transmission	Uplink Failure Detection	
802.1AB LLDP	2675	IPv6 Jumbograms	Object Tracking	
TIA-1057 LLDP-MED	3484	Default Address Selection	Bidirectional Forwarding Detection (BFD) Automation	
802.3ad Link Aggregation	3493	Basic Socket Interface	Control Plane Services APIs	
802.1D Bridging, STP	4291	Addressing Architecture	Linux Utilities and Scripting Tools	
802.1p L2 Prioritization 802.1Q VLAN Tagging	3542	Advanced Sockets API	CLI Automation (Multiline Alias)	
802.1Qbb PFC	3587	Global Unicast Address Format	Zero Touch Deployment (ZTD)	
802.1Qaz ETS	4291 2464	IPv6 Addressing Transmission of IPv6 Packets over	Ansible, Puppet, Chef, SaltStack	
802.1X Network Access Control	2-10-1	Ethernet Networks	8040 RESTCONF APIs (L3)	
802.3ac Frame Extensions for VLAN	2711	IPv6 Router Alert Option	Quality of Service	
Tagging	4007	IPv6 Scoped Address Architecture	Prefix List	
802.3x Flow Control	4213	Transition Mechanisms for IPv6 Hosts	Route-Map Rate Shaping (Egress)	
Layer2 Protocols 802.1D Compatible	and Rou		Rate Policing (Ingress)	
802.1s MSTP	3315 IPv6	DHCPv6 Server & Relay Static Routes	Scheduling Algorithms	
802.1w RSTP		Otatio Noutes	Round Robin	
802.1t RPVST+	OSPF	OSDE/RCD interaction	Weighted Round Robin	
VLT (Virtual Link Trunking)	1745 1765	OSPF/BGP interaction OSPF Database overflow	Deficit Round Robin	
VRRP Active/Active	2154	OSPF with DigitalSignatures	Strict Priority Weighted Bondom Forly Detect	
RSTP & RPVST+	2328	OSPFv2	Weighted Random Early Detect	
Port Mirroring on VLT ports DCB, iSCSI, FIP Snooping Bridge	5340	OSPF for IPv6 (OSPFv3)	Data contax buildadas	
RPM/ERPM over VLT	2370	Opaque LSA	Data center bridging 802.1Qbb Priority-Based Flow Contr	rol
VLT Minloss upgrade	3101	OSPF NSSA	802.1Qaz Enhanced Transmission	UI
RFC Compliance	4552	OSPFv3 Authentication	Selection (ETS)	
768 UDP	Multicas		Explicit Congestion Notification	
793 TCP	4541	IGMPv1/v2/v3 and MLDv1/v2	Data Center Bridging eXchange (DCBx)	
854 Telnet	0	Snooping	DCBx Application TLV (iSCSI, FCoE)	
959 FTP	Security		RoCEv2	
1321 MD5	2865 3162	RADIUS Radius and IPv6	Software Defined Networking OpenFlow 1.3 (Native)	
	J 10Z	Naulus aliu IF VU	Openitiow 1.3 (Native)	

MIBS

IP MIB

IP Forward MIB Host Resources MIB

IF MIB

LLDP EXT1/3 MIB

Entity MIB LAG MIB Dell-Vendor MIB

TCP MIB **UDP MIB** SNMPv2 MIB ETHERLIKE-MIB

SFLOW-MIB PFC-MIB

Regulatory compliance

Safety

UL/CSA 60950-1, Second Edition

EN 60950-1, Second Edition IEC 60950-1. Second Edition Including All

National Deviations and Group Differences

EN 60825-1 Safety of Laser Products Part 1: Equipment Classification Requirements and User's Guide

EN 60825-2 Safety of Laser Products Part 2: Safety of Optical Fibre Communication

FDA Regulation 21 CFR 1040.10 and 1040.11

Australia/New Zealand: AS/NZS CISPR 22:

2006, Class A

Canada: ICES-003, Issue-4, Class A Europe: EN 55022: 2006+A1:2007 (CISPR 22: 2006), Class A

Japan: VCCI V3/2009 Class A

USA: FCC CFR 47 Part 15, Subpart B:2011, Class A

Immunity

EN 300 386 V1.4.1:2008 EMC for Network

Equipment

EN 55024: 1998 + A1: 2001 + A2: 2003

Harmonic Current EN 61000-3-2:

Emissions

EN 61000-3-3: Voltage Fluctuations and

> Flicker **ESD**

EN 61000-4-2: EN 61000-4-3: Radiated Immunity

EN 61000-4-4: EN 61000-4-5: Surge

EN 61000-4-6: Low Frequency Conducted

Immunity

RoHS

All S Series components are EU RoHS compliant.

Certifications

Available with US Trade Agreements Act (TAA) compliance USGv6 Host and Router Certified on Dell Networking OS 9.5 and greater IPv6 Ready for both Host and Router UCR DoD APL (core and distribution ALSAN switch

Warranty

1 year return to depot



Plan, deploy, manage and support your IT transformation with our top-rated services

Consulting

Dell Technologies Consulting Services provides industry professionals with a wide range of tools and the experience your need to design and execute plans to transform your business.

Deployment

Accelerate technology adoption with ProDeploy Enterprise Suite. Trust our experts to lead deployments through planning, configuration and complex integrations.

Management

Regain control of operations with flexible IT management options. Our Residency Services help you adopt and optimize new technologies and our Managed Services allow you to outsource portions of your environment to us.

Support

Increase productivity and reduce downtime with ProSupport Enterprise Suite. Expert support backed by proactive and predictive artificial intelligence tools.

Education

Dell Technologies Education Services help you develop the IT skills required to lead and execute transformational strategies. Get certified today.

Learn more at DellTechnologies.com/Services

Learn more at DellTechnologies.com/Networking

