

SonicWall SuperMassive Series

Uncompromising, high-performance, next-generation firewall protection for your enterprise network.

The SonicWall SuperMassive Series is SonicWall's next-generation firewall (NGFW) platform designed for large networks to deliver scalability, reliability and deep security at multi-gigabit speeds with near zero latency.

Built to meet the needs of enterprise, government, university and service provider deployments, the SuperMassive Series is ideal for securing enterprise networks, data centers and service providers.

Combining its massively multi-core architecture and SonicWall's patented* Reassembly-Free Deep Packet Inspection® (RFDPI) technology, the SuperMassive E10000 and 9000 Series deliver industry-leading application control, intrusion prevention, malware protection and SSL inspection at multigigabit speeds. The SuperMassive Series is designed with power, space and cooling (PSC) in mind, providing the leading Gbps/watt NGFW in the industry for application control and threat prevention.

The SonicWall RFDPI engine scans every byte of every packet across all ports, delivering full content inspection of the entire stream while providing high performance and low latency. This technology is superior to outdated proxy designs that reassemble content using sockets bolted to anti-malware programs, which are plagued with inefficiencies and the overhead of socket memory thrashing, which leads to high latency, low performance and file size limitations. The RFDPI engine

delivers full content inspection to eliminate threats before they enter the network and provides protection against millions of unique malware variants — without file size, performance or latency limitations. The RFDPI engine also provides full inspection of SSL-encrypted traffic as well as non-proxyable applications, enabling complete protection regardless of transport or protocol.

Application traffic analytics enable the identification of productive and unproductive application traffic in real time, and traffic can then be controlled through powerful application-level policies. Application control can be exercised on both a per-user and pergroup basis, along with schedules and exception lists. All application, intrusion prevention and malware signatures are constantly updated by the SonicWall Threats Research Team. Additionally, SonicOS, an advanced purpose-built operating system, provides integrated tools that allow for custom application identification and control.

The design of the SuperMassive Series firewalls provides near-linear performance and scales up to 96 cores of processing power to deliver up to 40 Gbps of firewall throughput, 30 Gbps of threat prevention, and 30 Gbps of application inspection and control. The SuperMassive E10000 Series is field upgradeable, future-proofing the security infrastructure investment as network bandwidth and security requirements increase.



SuperMassive E10000 Series



SuperMassive 9000 Series

Benefits:

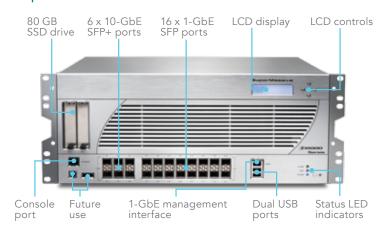
- Complete threat protection including high performance intrusion prevention, low latency malware protection and network sandboxing
- Superior granular application intelligence, control and visualization
- Full inspection of SSL encrypted traffic without the overhead, latency and memory thrashing associated with socket-based SSL proxies
- Massively scalable multicore architecture designed for 10/40 bps infrastructures

Series lineup

The SonicWall SuperMassive E10000 Series chassis includes 6 x 10-GbE SFP+ and 16 x 1-GbE SFP ports, redundant 850W AC power supplies and hot-swappable, dual-redundant fan modules, and it massively scales up to 96 processing cores.

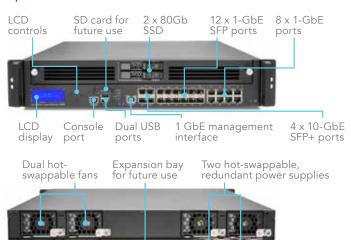
The SonicWall SuperMassive 9000 Series features 4 x 10-GbE SFP+, up to 12 x 1-GbE SFP, 8 x 1-GbE copper and 1 GbE management interfaces, with an expansion port for an additional 2 x 10-GbE SFP+ interfaces (future release). The 9000 Series features hot-swappable fan modules and power supplies.

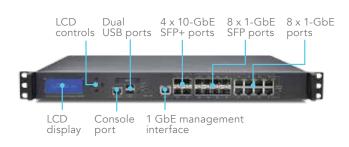
SuperMassive E10000 Series



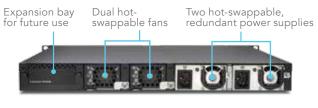


SuperMassive 9000 Series





Two hot-swappable, dual-redundant fan modules



| Capability | 9200 | 9400 | 9600 | 9800 | E10400 | E10800 |
|--|----------|----------|-----------|---------|---------|---------|
| Processing cores | 24 | 32 | 32 | 64 | 48 | 96 |
| Firewall throughput | 15 Gbps | 20 Gbps | 20 Gbps | 40 Gbps | 20 Gbps | 40 Gbps |
| Application intelligence throughput | 5 Gbps | 10 Gbps | 11.5 Gbps | 24 Gbps | 15 Gbps | 28 Gbps |
| Intrusion prevention system (IPS) throughput | 5 Gbps | 10 Gbps | 11.5 Gbps | 24 Gbps | 15 Gbps | 30 Gbps |
| Anti-malware | 3.5 Gbps | 4.5 Gbps | 5 Gbps | 10 Gbps | 6 Gbps | 12 Gbps |
| Maximum DPI connections | 1.25 M | 1.25 M | 1.5 M | 2.5 M | 5 M | 10 M |
| Deployment modes | 9200 | 9400 | 9600 | 9800 | E10400 | E10800 |
| L2 bridge mode | Yes | Yes | Yes | Yes | Yes | Yes |
| Wire mode | Yes | Yes | Yes | Yes | Yes | Yes |
| Gateway/NAT mode | Yes | Yes | Yes | Yes | Yes | Yes |
| Tap mode | Yes | Yes | Yes | Yes | Yes | Yes |
| Transparent mode | Yes | Yes | Yes | Yes | Yes | Yes |



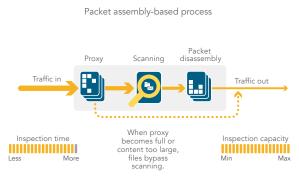
Reassembly-Free Deep Packet Inspection engine

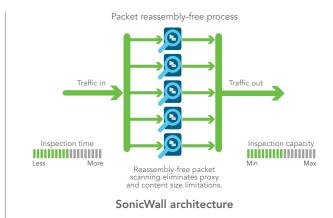
The RFDPI engine provides superior threat protection and application control without compromising performance. This patented engine relies on streaming traffic payload inspection in order to detect threats at Layers 3-7. The RFDPI engine takes network streams through extensive and repeated normalization and decryption in order to neutralize advanced evasion techniques that seek

to confuse detection engines and sneak malicious code into the network.

Once a packet undergoes the necessary pre-processing, including SSL decryption, it is analyzed against a single proprietary memory representation of three signature databases: intrusion attacks, malware and applications. The connection state is then advanced to represent the position of the stream relative to these databases until it

encounters a state of attack, or other "match" event, at which point a preset action is taken. In most cases, the connection is terminated and proper logging and notification events are created. However, the engine can also be configured for inspection only or, in the case of application detection, to provide Layer 7 bandwidth management services for the remainder of the application stream as soon as the application is identified.





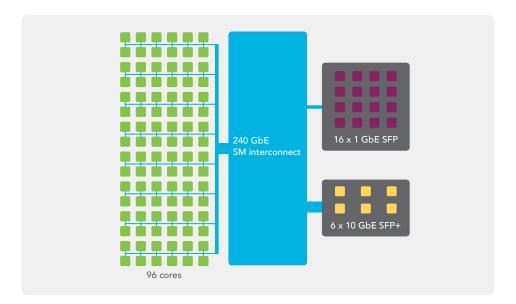
Competitive architecture

Extensible architecture for extreme scalability and performance

The RFDPI engine is designed from the ground up with an emphasis on providing security scanning at a high level of performance, to match both the inherently parallel and evergrowing nature of network traffic. When combined with 24-, 32-, 48-, 64- or 96core processor systems, this parallelismcentric software architecture scales up perfectly to address the demands of deep packet inspection (DPI) at high traffic loads. The SuperMassive platform relies on processors that, unlike x86, are optimized for packet, crypto and network processing while retaining flexibility and programmability in the field — a weak point for ASICs systems. This flexibility is essential when new code and behavior updates are necessary to protect against new attacks that require updated and more sophisticated detection techniques.

Another aspect of the platform design is the unique ability to establish new connections on any core in the system, providing ultimate scalability and the ability to deal with traffic spikes. This

approach delivers extremely high new session establishment rates (new conn/sec) while deep packet inspection is enabled — a key metric that is often a bottleneck for data center deployments.





Security and protection

The dedicated, in-house SonicWall Threats Research Team works on researching and developing countermeasures to deploy to the firewalls in the field for up-to-date protection. The team leverages more than one million sensors across the globe for malware samples and for telemetry feedback on the latest threat information, which in turn is fed into the intrusion prevention, anti-malware and application detection capabilities. SonicWall NGFW customers with the latest security capabilities are provided continuously updated threat protection around the clock, with new updates taking effect immediately without

reboots or interruptions. The signatures on the appliances protect against wide classes of attacks, covering up to tens of thousands of individual threats with a single signature.

In addition to the countermeasures on the appliance, SuperMassive firewalls also have access to the SonicWall CloudAV Service, which extends the onboard signature intelligence with more than seventeen million signatures, and growing. This CloudAV database is accessed via a proprietary, lightweight protocol by the firewall to augment the inspection done on the appliance. With Capture Advanced Threat Protection, a cloud-based network sandbox, organizations can examine suspicious

files and code in an isolated environment to stop advanced threats such as zeroday attacks.



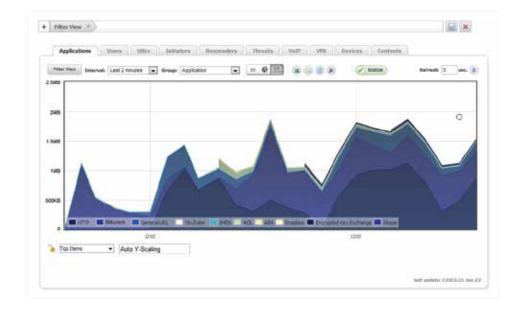
Application intelligence and control

Application intelligence informs administrators of application traffic traversing their network so they can schedule application controls based on business priority, throttle unproductive applications and block potentially dangerous applications. Real-time visualization identifies traffic anomalies as they happen, enabling immediate countermeasures against potential inbound or outbound attacks or performance bottlenecks.

SonicWall Application Traffic Analytics provide granular insight into application traffic, bandwidth utilization and security threats, as well as powerful troubleshooting and forensics capabilities. Additionally, secure single sign-on (SSO) capabilities ease the user experience, increase productivity and reduce support calls. Management of application intelligence and control is simplified by the intuitive webbased interface.

Global management and reporting

For larger, distributed enterprise deployments, the optional SonicWall Global Management System (GMS°) provides administrators a unified, secure and extensible platform to



manage SonicWall security appliances. It enables enterprises to easily consolidate the management of security appliances, reduce administrative and troubleshooting complexities, and govern all operational aspects of the security infrastructure, including centralized policy management and enforcement, real-time event monitoring, analytics and reporting, and more. GMS also meets the firewall change management requirements of enterprises through a workflow

automation feature. With GMS workflow automation, all enterprises will gain agility and confidence in deploying the right firewall policies, at the right time and in conformance to compliance regulations. GMS provides a better way to manage network security by business processes and service levels, dramatically simplifying lifecycle management of your overall security environments as compared to managing on a device-by-device basis.



Features

| RFDPI engine | | |
|---|--|--|
| Feature | Description | |
| Reassembly-Free Deep Packet Inspection (RFDPI) | This high-performance, proprietary and patented inspection engine performs stream-based, bi-directional traffic analysis, without proxying or buffering, to uncover intrusion attempts and malware and to identify application traffic regardless of port. | |
| Bi-directional inspection | Scans for threats in both inbound and outbound traffic simultaneously to ensure that the network is not used to distribute malware and does not become a launch platform for attacks in case an infected machine is brought inside. | |
| Stream-based inspection | Proxy-less and non-buffering inspection technology provides ultra-low latency performance for DPI of millions of simultaneous network streams without introducing file and stream size limitations, and can be applied on common protocols as well as raw TCP streams. | |
| Highly parallel and scalable | The unique design of the RFDPI engine works with the multi-core architecture to provide high DPI throughput and extremely high new session establishment rates to deal with traffic spikes in demanding networks. | |
| Single-pass inspection | A single-pass DPI architecture simultaneously scans for malware, intrusions and application identification, drastically reducing DPI latency and ensuring that all threat information is correlated in a single architecture. | |

| Capture advanced threat protection | | |
|------------------------------------|---|--|
| Feature | Description | |
| Multi-engine sandboxing | The multi-engine sandbox platform, which includes virtualized sandboxing, full system emulation and hypervisor level analysis technology, executes suspicious code and analyzes behavior, providing comprehensive visibility into malicious activity. | |
| Broad file type and size analysis | Analyzes a broad range of file types including executable programs (PE), DLL, PDFs, MS Office documents, archives, JAR, and APK plus multiple operating systems (Windows, Android, Mac OS X) and multi-browser environments. | |
| Rapid deployment of signatures | When a file is identified as malicious, a signature is immediately deployed to firewalls with an active SonicWall Capture subscription as well as Capture Threat Network Gateway Anti-virus and IPS signature databases plus URL, IP and domain reputation databases within 48 hours. | |
| Block until verdict | To prevent potentially malicious files from entering the network, files sent to the cloud for analysis can be held at the gateway until a verdict is determined. | |

| | Intrusion prevention |
|---|--|
| Feature | Description |
| Countermeasure-based protection | Tightly integrated intrusion prevention system (IPS) leverages signatures and other countermeasures to scan packet payloads for vulnerabilities and exploits, covering a broad spectrum of attacks and vulnerabilities. |
| Automatic signature updates | The SonicWall Threat Research Team continuously researches and deploys updates to an extensive list of IPS countermeasures that covers more than 50 attack categories. The new updates take effect immediately, without any reboot or service interruption required. |
| Intra-zone IPS protection | Bolsters internal security by segmenting the network into multiple security zones with intrusion prevention, preventing threats from propagating across the zone boundaries. |
| Botnet command and control (CnC) detection and blocking | Identifies and blocks command and control traffic originating from bots on the local network to IPs and domains that are identified as propagating malware or are known CnC points. |
| Protocol abuse/anomaly detection and prevention | Identifies and blocks attacks that abuse protocols in an attempt to sneak past the IPS. |
| Zero-day protection | Protects the network against zero-day attacks with constant updates against the latest exploit methods and techniques that cover thousands of individual exploits. |
| Anti-evasion technology | Extensive stream normalization, decoding and other techniques ensure that threats do not enter the network undetected by utilizing evasion techniques in Layers 2-7. |

| Threat prevention | |
|-----------------------------------|--|
| Feature | Description |
| Gateway anti-malware | The RFDPI engine scans all inbound, outbound and intra-zone traffic for viruses, Trojans, key loggers and other malware in files of unlimited length and size across all ports and TCP streams. |
| CloudAV | A continuously updated database of over 17 million threat signatures resides in the SonicWall cloud servers and is referenced to augment the capabilities of the onboard signature database, providing RFDPI with extensive coverage of threats. |
| Around-the-clock security updates | The SonicWall Threat Research Team analyzes new threats and releases countermeasures 24 hours a day, 7 days a week. New threat updates are automatically pushed to firewalls in the field with active security services, and take effect immediately without reboots or interruptions. |
| SSL inspection | Decrypts and inspects SSL traffic on the fly, without proxying, for malware, intrusions and data leakage, and applies application, URL and content control policies in order to protect against threats hidden in SSL encrypted traffic. |
| Bi-directional raw TCP inspection | The RFDPI engine is capable of scanning raw TCP streams on any port bi-directionally, preventing attacks that try to sneak by outdated security systems that focus on securing a few well-known ports. |
| Extensive protocol support | Identifies common protocols, such as HTTP/S, FTP, SMTP and SMB v1/v2, which do not send data in raw TCP, and decodes payloads for malware inspection, even if they do not run on standard, well-known ports. |



Features

| Application intelligence and control | | |
|--------------------------------------|---|--|
| Feature | Description | |
| Application control | Controls applications, or individual application features, which are identified by the RFDPI engine against a continuously expanding database of over 3600 application signatures, to increase network security and enhance network productivity. | |
| Custom application identification | Controls custom applications by creating signatures based on specific parameters or patterns unique to an application in its network communications, in order to gain further control over the network. | |
| Application bandwidth management | Granularly allocates and regulates available bandwidth for critical applications or application categories while inhibiting non-essential application traffic. | |
| On-box/off-box traffic visualization | Identifies bandwidth utilization and analyzes network behavior with real-time, on-box application traffic visualization and off-box application traffic reporting via NetFlow/IPFix. | |
| Granular control | Controls applications, or specific components of an application, based on schedules, user groups, exclusion lists and a range of actions with full SSO user identification through LDAP/AD/Terminal Services/Citrix integration. | |

| Content filtering | | |
|----------------------------------|---|--|
| Feature | Description | |
| Inside/outside content filtering | Content Filtering Service enforces acceptable use policies and blocks access to websites containing information or images that are objectionable or unproductive. Content Filtering Client extends policy enforcement to block internet content for devices located outside the firewall perimeter. | |
| Granular controls | Blocks content using the predefined categories or any combination of categories. Filtering can be scheduled by time of day, such as during school or business hours, and applied to individual users or groups. | |
| Dynamic rating architecture | All requested web sites are cross-referenced against a dynamically updated database in the cloud categorizing millions of URLs, IP addresses and domains in real time. | |
| YouTube for Schools | Enables teachers to choose from hundreds of thousands of free educational videos from YouTube EDU that are organized by subject and grade and that align with common educational standards. | |
| Web caching | URL ratings are cached locally on the SonicWall firewall so that the response time for subsequent access to frequently visited sites is only a fraction of a second. | |

| Enforced anti-virus and anti-spyware | | |
|---------------------------------------|---|--|
| Feature | Description | |
| Multi-layered protection | A firewall's gateway anti-virus solution provides the first layer of defense at the perimeter; however, viruses can still enter the network through laptops, thumb drives and other unprotected systems. Utilizes a layered approach to anti-virus and anti-spyware protection to extend to both client and server. | |
| Automated enforcement | Ensures every computer accessing the network has the most recent version of anti-virus and anti-spyware signatures installed and active, eliminating the costs commonly associated with desktop anti-virus and anti-spyware management. | |
| Automated deployment and installation | Machine-by-machine deployment and installation of anti-virus and anti-spyware clients is automatic across the network, minimizing administrative overhead. | |
| Always on, automatic virus protection | Frequent anti-virus and anti-spyware updates are delivered transparently to all desktops and file servers to improve end-user productivity and reduce security management. | |
| Spyware protection | Powerful spyware protection scans and blocks the installation of a comprehensive array of spyware programs on desktops and laptops before they can transmit confidential data, providing greater desktop security and performance. | |

| Firewall and networking | | |
|--|---|--|
| Feature | Description | |
| Stateful packet inspection | All network traffic is inspected, analyzed and brought into compliance with firewall access policies. | |
| DDoS/DoS attack protection | SYN flood protection provides a defense against DOS attacks using both Layer 3 SYN proxy and Layer 2 SYN blacklisting technologies. Additionally, it protects against DOS/DDoS through UDP/ICMP flood protection and connection rate limiting. | |
| Flexible deployment options | The SuperMassive Series can be deployed in traditional NAT, Layer 2 bridge, wire and network tap modes. | |
| IPv6 support | Internet Protocol version 6 (IPv6) is in its early stages to replace IPv4. With the latest SonicOS 6.2, the hardware will support filtering and wire mode implementations. | |
| High availability/clustering | The SuperMassive Series supports Active/Passive (A/P) with state synchronization, Active/Active (A/A) DPI and Active/Active clustering high availability modes. Active/Active DPI offloads the deep packet inspection load to cores on the passive appliance to boost throughput. | |
| WAN load balancing | Load-balances multiple WAN interfaces using Round Robin, Spillover or Percentage methods. | |
| Policy-based routing | Creates routes based on protocol to direct traffic to a preferred WAN connection with the ability to fail back to a secondary WAN in the event of an outage. | |
| Advanced quality of service (QoS) | Guarantees critical communications with 802.1p, DSCP tagging, and remapping of VoIP traffic on the network. | |
| H.323 gatekeeper and SIP proxy support | Blocks spam calls by requiring that all incoming calls are authorized and authenticated by H.323 gatekeeper or SIP proxy. | |



Features

| | Management and reporting |
|--|---|
| Feature | Description |
| Global Management System | SonicWall GMS monitors, configures and reports on multiple SonicWall appliances through a single management console with an intuitive interface, reducing management costs and complexity. |
| Powerful single device management | An intuitive web-based interface allows quick and convenient configuration, in addition to a comprehensive command-line interface and support for SNMPv2/3. |
| IPFIX/NetFlow application flow reporting | Exports application traffic analytics and usage data through IPFIX or NetFlow protocols for real-time and historical monitoring and reporting with tools such as SonicWall Scrutinizer or other tools that support IPFIX and NetFlow with extensions. |

| Virtual private networking (VPN) | | |
|---|--|--|
| Feature | Description | |
| IPSec VPN for site-to-site connectivity | High-performance IPSec VPN allows the SuperMassive Series to act as a VPN concentrator for thousands of other large sites, branch offices or home offices. | |
| SSL VPN or IPSec client remote access | Utilizes clientless SSL VPN technology or an easy-to-manage IPSec client for easy access to email, files, computers, intranet sites and applications from a variety of platforms. | |
| Redundant VPN gateway | When using multiple WANs, a primary and secondary VPN can be configured to allow seamless, automatic failover and failback of all VPN sessions. | |
| Route-based VPN | The ability to perform dynamic routing over VPN links ensures continuous uptime in the event of a temporary VPN tunnel failure, by seamlessly re-routing traffic between endpoints through alternate routes. | |

| Content/context awareness | | |
|--------------------------------------|---|--|
| Feature | Description | |
| User activity tracking | User identification and activity are made available through seamless AD/LDAP/Citrix1/Terminal Services1 SSO integration combined with extensive information obtained through DPI. | |
| GeoIP country traffic identification | Identifies and controls network traffic going to or coming from specific countries to either protect against attacks from known or suspected origins of threat activity, or to investigate suspicious traffic originating from the network. | |
| Regular expression DPI filtering | Prevents data leakage by identifying and controlling content crossing the network through regular expression matching. | |



Supported on SonicOS 6.1 and 6.2. Not supported on SonicOS 6.2.1. Requires added subscription.

Feature summary

Firewall

- Reassembly-Free Deep Packet Inspection
- SSL decryption and inspection
- Stateful packet inspection
- Stealth mode
- Common Access Card (CAC) support
- DOS attack protection
- UDP/ICMP/SYN flood protection
- IPv6 security
- Management and monitoring: IPv4 and IPv6 management
- Networking: IPv6

Capture advanced threat protection2

- Cloud-based multi-engine analysis
- Virtualized sandboxing
- Hypervisor level analysis
- Full system emulation
- Broad file type examination
- Automated and manual submission
- Real-time threat intelligence updates
- Auto-block capability

Intrusion prevention2

- Signature-based scanning
- Automatic signature updates
- Bi-directional inspection engine
- Granular IPS rule set
- GeoIP and reputation-based filtering
- Regular expression matching
- UDP/ICMP/SYN flood protection

Anti-malware2

- Stream-based malware scanning
- Gateway anti-virus
- Gateway anti-spyware
- Bi-directional inspection
- No file size limitation
- Cloud malware database

Application intelligence

- Application control
- Application component blocking
- Application bandwidth management
- Custom application signature creation
- Application traffic visualization
- Data leakage prevention
- Application reporting over NetFlow/ IPFIX
- User activity tracking (SSO)
- Comprehensive application signature database

Web content filtering2

- URL filtering
- Anti-proxy technology
- Keyword blocking
- Bandwidth management for CFS categories
- Unified policy model with app control
- 56 content filtering categories
- Content Filtering Client (SonicOS 6.2)

VPN

- IPSec VPN for site-to-site connectivity
- SSL VPN and IPSEC client remote access
- Redundant VPN gateway
- Mobile Connect for Apple® iOS and Google® Android™
- Route-based VPN (OSPF, RIP)

Networking

- Jumbo frames (SonicOS 6.0.5 and 6.2 only)
- Path MTU discovery
- Enhanced logging
- VLAN trunking
- Layer-2 network discovery
- Port mirroring
- Layer-2 QoS
- Port security

- Dynamic routing
- SonicPoint wireless controller¹
- Policy-based routing
- Advanced NAT
- DHCP server
- Bandwidth management
- Link aggregation
- Port redundancy
- A/P high availability with state sync
- A/A clustering
- Inbound/outbound load balancing
- L2 bridge, wire mode, tap mode, NAT mode

VoIP

- Granular QoS control
- Bandwidth management
- DPI for VoIP traffic
- H.323 gatekeeper and SIP proxy support

Management and monitoring

- Web GUI
- Command-line interface (CLI)
- SNMPv2/v3
- Off-box reporting (Scrutinizer)
- Centralized management and reporting with SonicWall Global Management System (GMS)⁹
- Logging
- Netflow/IPFix exporting
- Application and bandwidth visualizer
- LCD management screen
- Single sign-on (SSO)
- Terminal service/Citrix support
- BlueCoat Security Analytics Platform



SuperMassive E10000 Series system specifications

| | E10400 | E10800 | | |
|--|--|---|--|--|
| Operating system | | SonicOS | | |
| ecurity processing cores | 48 | 96 | | |
| 0 GbE interfaces | 6 x ′ | 0-GbE SFP+ | | |
| GbE interfaces | 16 x 1-GbE SFP | | | |
| Management interfaces | 1 G | DE, 1 console | | |
| Nemory (RAM) | 32 GB | 64 GB | | |
| torage | 80 GB SSD, flash | | | |
| irewall inspection throughput | 20 Gbps | 40 Gbps | | |
| application inspection throughput ² | 15 Gbps | 30 Gbps | | |
| PS throughput ² | 15 Gbps | 28 Gbps | | |
| Anti-malware inspection throughput | 6 Gbps | 12 Gbps | | |
| MIX performance | 4.3 Gbps | 9 Gbps | | |
| SL-DPI performance | 3 Gbps | 5 Gbps | | |
| PN throughput' | 7.5 Gbps | 11 Gbps | | |
| | 7.3 Gbps | | | |
| entency | 200.000/222 | 24μs 400,000/sec | | |
| onnections per second | 200,000/sec | | | |
| laximum connections (SPI) | 6 M | 12 M | | |
| Maximum connections (DPI) | 5 M | 10 M | | |
| SO users | 40,000 | 60,000 | | |
| VPN | E10400 | E10800 | | |
| ite-to-site tunnels | | 10,000 | | |
| PSec VPN clients (max) | 2,000 (10,000) | | | |
| ncryption | | AES (128, 192, 256-bit) | | |
| uthentication | MD5, SHA-1, Co | mmon Access Card (CAC) | | |
| Key exchange | Diffie Hellm | an Groups 1, 2, 5, 14 | | |
| Route-based VPN | I | RIP, OSPF | | |
| Networking | E10400 | E10800 | | |
| P address assignment | Static, internal DHCP server, DHCP relay | | | |
| IAT modes | 1:1, many:1, 1:many, flexible NAT (overlapping IPs), PAT, transparent mode | | | |
| LAN interfaces | 1024 | 2048 | | |
| outing protocols | BGP, OSPF, RIPv1/v2, static re | outes, policy-based routing, multicast | | |
| 2oS | Bandwidth priority, max bandwidth, guaranteed bandwidth, DSCP marking, 802.1p | | | |
| uthentication | XAUTH/RADIUS, Active Directory, SSO, LDAP, | Novell, internal user database, Terminal Services, Citrix | | |
| OIP | Full H | 1323-v1-5, SIP | | |
| tandards | TCP/IP, ICMP, HTTP, HTTPS, IPSec, ISAKMP/IKE | , SNMP, DHCP, PPPoE, L2TP, PPTP, RADIUS, IEEE 802.3 | | |
| Certifications | FIPS 140-2, Common Crite | ria NDPP, IPv6 Phase 2, VPAT, VPNC | | |
| | NSS NGFW Recommended and NSS IPS Recommended | | | |
| hird-party verification | NSS NGFW Recommen | ded and NSS IPS Recommended | | |
| hird-party verification Hardware | NSS NGFW Recomment | ded and NSS IPS Recommended E10800 | | |
| Hardware | E10400 | | | |
| Hardware ower supply | E10400 Dual-redundan | E10800 | | |
| Hardware Power supply Fans | E10400 Dual-redundan Dual-redun | E10800 t, hot-swappable, 850 W | | |
| Hardware Cower supply Cans Display | E10400 Dual-redundan Dual-redun Fron | t, hot-swappable, 850 W clant, hot-swappable | | |
| Hardware Tower supply Tans Tisplay Tiput power | E10400 Dual-redundan Dual-redun Fron | t, hot-swappable, 850 W dant, hot-swappable t LED display | | |
| Hardware ower supply ans visplay uput power flaximum power consumption (W) | E10400 Dual-redundan Dual-redun Fron 100-24 | t, hot-swappable, 850 W dant, hot-swappable t LED display 0 VAC, 60-50 Hz | | |
| Hardware ower supply ans bisplay uput power Maximum power consumption (W) MTBF @25°C in hours | E10400 Dual-redundan Dual-redun Fron 100-24 | t, hot-swappable, 850 W dant, hot-swappable t LED display 0 VAC, 60-50 Hz 750 | | |
| Hardware ower supply ans Display Input power Maximum power consumption (W) MTBF @25°C in hours MTBF @25°C in years | E10400 Dual-redundan Dual-redundan From 100-24 | E10800 t, hot-swappable, 850 W dant, hot-swappable t LED display 0 VAC, 60-50 Hz 750 120,790 13.789 | | |
| Hardware Tower supply Tans Display Input power Maximum power consumption (W) MTBF @25°C in hours MTBF @25°C in years Torm factor | E10400 Dual-redundan Dual-redundan From 100-24 550 4U Ra | t, hot-swappable, 850 W dant, hot-swappable t LED display 0 VAC, 60-50 Hz 750 120,790 13.789 ack Mountable | | |
| Hardware Nower supply Sans Display Pout power Maximum power consumption (W) ATBF @25°C in hours MTBF @25°C in years Form factor Dimensions | E10400 Dual-redundan Dual-redundan From 100-24 550 4U Ra 17x18x7 ir | t, hot-swappable, 850 W dant, hot-swappable t LED display 0 VAC, 60-50 Hz 750 120,790 13.789 ack Mountable (43x43.5x17.8 cm) | | |
| Hardware ower supply ans pisplay nput power Maximum power consumption (W) MTBF @25°C in hours MTBF @25°C in years orm factor bimensions Veight | E10400 Dual-redundam Dual-redundam From 100-24 550 4U Ra 17x18x7 ir 61 lb (27.7 kg) | E10800 t, hot-swappable, 850 W dant, hot-swappable t LED display 0 VAC, 60-50 Hz 750 120,790 13.789 tck Mountable 1 (43x43.5x17.8 cm) 67 lb (30.3 k | | |
| Hardware ower supply ans bisplay nput power Maximum power consumption (W) MTBF @25°C in hours ATBF @25°C in years orm factor bimensions Veight VEEE weight | E10400 Dual-redundam Dual-redundam From 100-24 550 4U Ra 17x18x7 ir 61 lb (27.7 kg) 62 lb (28.1 kg) | E10800 t, hot-swappable, 850 W dant, hot-swappable t LED display 0 VAC, 60-50 Hz 750 120,790 13.789 tick Mountable 1 (43x43.5x17.8 cm) 67 lb (30.3 k 68 lb (30.8 kg) | | |
| Hardware ower supply ans oisplay nput power Maximum power consumption (W) MTBF @25°C in hours MTBF @25°C in years orm factor oimensions Veight VEEE weight hipping weight | E10400 Dual-redundam Dual-redundam From 100-24 550 4U Ra 17x18x7 ir 61 lb (27.7 kg) 62 lb (28.1 kg) 82 lb (37.2 kg) | E10800 t, hot-swappable, 850 W dant, hot-swappable t LED display 0 VAC, 60-50 Hz 750 120,790 13.789 tck Mountable t (43x43.5x17.8 cm) 67 lb (30.3 k 68 lb (30.8 kg) 88 lb (39.9 kg) | | |
| Third-party verification Hardware Power supply Fans Display Input power Maximum power consumption (W) MTBF @25°C in hours MTBF @25°C in years Form factor Dimensions Weight WEEE weight Shipping weight Major regulatory | E10400 Dual-redundam Dual-redundam From 100-24 550 4U Re 17x18x7 ir 61 lb (27.7 kg) 62 lb (28.1 kg) 82 lb (37.2 kg) FCC Class A, CE, C-Tick, VCCI, Complian | E10800 t, hot-swappable, 850 W dant, hot-swappable t LED display 0 VAC, 60-50 Hz 750 120,790 13.789 tick Mountable 1 (43x43.5x17.8 cm) 67 lb (30.3 k 68 lb (30.8 kg) | | |



¹ Testing methodologies: Maximum performance based on RFC 2544 (for firewall). Actual performance may vary depending on network conditions and activated services. ² Full DPI/Gateway AV/Anti-Spyware/IPS throughput measured using industry standard Spirent WebAvalanche HTTP performance test and Ixia test tools. Testing done with multiple flows through multiple port pairs. ³ VPN throughput measured using UDP traffic at 1280 byte packet size adhering to RFC 2544. All specifications, features and availability are subject to change.

SuperMassive 9000 Series system specifications

| | 9200 | 9400 | 9600 | 9800 | |
|--|--|--|---------------------------------------|---|--|
| Operating system | | Soni | icOS | | |
| ecurity processing cores | 24 | 3 | 2 | 64 | |
| 0 GbE interfaces | | 4 x 10-G | bE SFP+ | | |
| GbE interfaces | 8 x 1-GbE SFP, 8 x 1 GbE (1 LAN bypass pair) | | | 12 x 1-GbE SFP, 8 x 1 GbE | |
| lanagement interfaces | 1 GbE, 1 console | | | | |
| Memory (RAM) | 8 GB | 16 GB | 32 GB | 64 GB | |
| torage | | Flash | 72.72 | 2x 80GB SSD, Flash | |
| xpansion | 1 expansion slot (rear)*, SD card* | | | | |
| irewall inspection throughput | 15 Gbps 20 Gbps | | 40 Gbps | | |
| application inspection throughput ² | 5 Gbps | 10 Gbps | 11.5 Gbps | 24 Gbps | |
| PS throughput ² | 5 Gbps | 10 Gbps | 11.5 Gbps | 24 Gbps | |
| Inti-malware inspection throughput | 3.5 Gbps | 4.5 Gbps | | 10 Gbps | |
| MIX performance | 4.4 Gbps | · | 5 Gbps | 9 Gbps | |
| | | | Sbps | · | |
| SL-DPI | 1 Gbps | 2 Gbps | 2 Gbps | 5 Gbps | |
| PN throughput' | 5 Gbps | 10 Gbps | 11.5 Gbps | 18 Gbps | |
| atency | | | μs | | |
| onnections per second | 100,000/sec | | 00/sec | 280,000/sec | |
| aximum connections (SPI) | 1.2 | | 1.5 M | 3 M | |
| laximum connections (DPI) | 1 | | 1.25 M | 2.5 M | |
| SO users | 80,000 | 90,000 | 100,000 | 110,000 | |
| laximum SonicPoints supported | | 128 | | - | |
| VPN | 9200 | 9400 | 9600 | 9800 | |
| te-to-site tunnels | | 10,000 | | 25,000 | |
| Sec VPN clients (max) | 2,000 (4,000) | 2,000 (6,000) | 2,000 (10,000) | 2,000 (10,000) | |
| ncryption/authentication | DES, 3DE | S, AES (128, 192, 256-bit)/MD5, S | HA-1, Suite B, Common Acces | s Card (CAC) | |
| ey exchange | | Diffie Hellman G | roups 1, 2, 5, 14v | | |
| oute-based VPN | | RIP, (| OSPF | | |
| Networking | 9200 | 9400 | 9600 | 9800 | |
| address assignment | Static, DHCP, PPPoE, L2TP and PPTP client, internal DHCP server, DHCP relay | | | | |
| AT modes | 1:1, many:1, 1:many, flexible NAT (overlapping IPs), PAT, transparent mode | | | | |
| LAN interfaces | | 51 | 12 | | |
| outing protocols | BGP, OSPF, RIPv1/v2, static routes, policy-based routing, multicast | | | | |
| 2oS | Bandwidth priority, max bandwidth, guaranteed bandwidth, DSCP marking, 802.1p | | | | |
| authentication | | | | - | |
| oIP | XAUTH/RADIUS, Active Directory, SSO, LDAP, Novell, internal user database, Terminal Services*, Citrix* | | | | |
| tandards | Full H323-v1-5, SIP TCP/IP, ICMP, HTTP, HTTPS, IPSec, ISAKMP/IKE, SNMP, DHCP, PPPoE, L2TP, PPTP, RADIUS, IEEE 802.3 | | | | |
| ertifications | | Enterprise Firewall, IPV6 Phase 2, \ | | | |
| | UC AFL, ICSA E | | rri-Virus | non Criteria NDFF | |
| Certifications pending | 9200 | 9400 | 9600 | 9800 | |
| Hardware | 9200 | 9400 | 9600 | | |
| ower supply | Du | al-redundant, hot-swappable, 300 |) W | Dual-redundant, hot- swappable, 500 W | |
| | ' | | | | |
| ans | | Dual-redundant, hot-swappable Front LED display | | | |
| | | | | | |
| isplay | | Front LEI | D display | | |
| isplay iput power | | Front LEI 100-240 VA | | 250 | |
| isplay put power laximum power consumption (W) | 400 740 | Front LEI 100-240 VA 200 | D display C, 60-50 Hz | 350 | |
| isplay uput power laximum power consumption (W) ITBF @25°C in hours | 188,719 | Front LEI 100-240 VA 200 187,702 | D display C, 60-50 Hz | 126,144 | |
| isplay put power laximum power consumption (W) ITBF @25°C in hours ITBF @25°C in years | 188,719 21.543 | Front LE(100-240 VA 200 187,702 21.427 | D display C, 60-50 Hz | 126,144 14.400 | |
| put power aximum power consumption (W) TBF @25°C in hours TBF @25°C in years orm factor | 21.543 | Front LEI 100-240 VA 200 187,702 21.427 1U rack-mountable | D display C, 60-50 Hz 186,451 21.284 | 126,144 14.400 2U rack-mountable | |
| isplay put power laximum power consumption (W) ITBF @25°C in hours ITBF @25°C in years orm factor imensions | 21.543 | Front LEI 100-240 VA 200 187,702 21.427 1U rack-mountable 17x19.1x1.75 in (43.3x48.5x4.5 cm) | D display C, 60-50 Hz 186,451 21.284 | 126,144 14.400 2U rack-mountable 17x24x3.5 in (9x60x43 cm | |
| isplay Iput power Iaximum power consumption (W) ITBF @25°C in hours ITBF @25°C in years ITBF @imensions /eight | 21.543 | Front LEI 100-240 VA 200 187,702 21.427 1U rack-mountable 17x19.1x1.75 in (43.3x48.5x4.5 cm) 18.1 lb (8.2 kg) | D display C, 60-50 Hz 186,451 21.284 | 126,144 14.400 2U rack-mountable 17x24x3.5 in (9x60x43 cm 40.5 lb (18.38 kg) | |
| isplay Iput power Iaximum power consumption (W) ITBF @25°C in hours ITBF @25°C in years ITBF @imensions /eight | 21.543 | Front LEI 100-240 VA 200 187,702 21.427 1U rack-mountable 17x19.1x1.75 in (43.3x48.5x4.5 cm) | D display C, 60-50 Hz 186,451 21.284 | 126,144 14.400 2U rack-mountable 17x24x3.5 in (9x60x43 cm | |
| isplay put power laximum power consumption (W) ITBF @25°C in hours ITBF @25°C in years orm factor imensions leight leEE weight | 21.543 | Front LEI 100-240 VA 200 187,702 21.427 1U rack-mountable 17x19.1x1.75 in (43.3x48.5x4.5 cm) 18.1 lb (8.2 kg) | D display C, 60-50 Hz 186,451 21.284 | 126,144 14.400 2U rack-mountable 17x24x3.5 in (9x60x43 cm 40.5 lb (18.38 kg) | |
| isplay Input power Ilaximum power consumption (W) ITBF @25°C in hours ITBF @25°C in years Form factor Imensions I/eight I/EEE weight I/eiphing weight | 21.543 | Front LEI 100-240 VA 200 187,702 21.427 1U rack-mountable 17x19.1x1.75 in (43.3x48.5x4.5 cm) 18.1 lb (8.2 kg) 23 lb (10.4 kg) | D display C, 60-50 Hz 186,451 21.284 | 126,144 14.400 2U rack-mountable 17x24x3.5 in (9x60x43 cm 40.5 lb (18.38 kg) 49.5 lb (22.4 kg) 65 lb (29.64 kg) | |
| ans Jisplay Input power Maximum power consumption (W) MTBF @25°C in hours MTBF @25°C in years Form factor Jimensions Weight WEEE weight hipping weight Major regulatory nvironment | 21.543 | Front LEI 100-240 VA 200 187,702 21.427 1U rack-mountable 17x19.1x1.75 in (43.3x48.5x4.5 cm) 18.1 lb (8.2 kg) 23 lb (10.4 kg) 29.3 lb (13.3 kg) | D display C, 60-50 Hz 186,451 21.284 | 126,144 14.400 2U rack-mountable 17x24x3.5 in (9x60x43 cm 40.5 lb (18.38 kg) 49.5 lb (22.4 kg) 65 lb (29.64 kg) | |

¹ Testing Methodologies: Maximum performance based on RFC 2544 (for firewall). Actual performance may vary depending on network conditions and activated services. ² Full DPI/Gateway AV/Anti-Spyware/IPS throughput measured using industry standard Spirent WebAvalanche HTTP performance test and Ixia test tools. Testing done with multiple flows through multiple port pairs. ³ VPN throughput measured using UDP traffic at 1280 byte packet size adhering to RFC 2544. ⁴ PPPoE, L2TP and PPTP clients are not supported on SM9800. ⁵ Supported on SonicOS 6.1 and 6.2. ⁴ Applies to SuperMassive 9200, 9400 and 9600. SuperMassive 9800 UC APL certification is pending. *Future use. All specifications, features and availability are subject to change.



SuperMassive E10000 Series ordering information

| Product | SKU |
|--|-------------|
| SuperMassive E10400, 6 SFP+ 10GbE ports, 16 SFP 1GbE ports, dual fans, dual AC power supplies | 01-SSC-8881 |
| SuperMassive E10800, 6 SFP+ 10GbE ports, 16 SFP 1GbE ports, dual fans, dual AC power supplies | 01-SSC-8856 |
| System upgrades | SKU |
| SuperMassive E10200 to E10400 upgrade | 01-SSC-9497 |
| SuperMassive E10400 to E10800 upgrade | 01-SSC-9498 |
| SuperMassive E10400 support and security subscriptions | SKU |
| Threat Prevention: Intrusion Prevention, Gateway Anti-Virus, Gateway Anti-Spyware, Cloud Anti-Virus for E10400 (1-year) | 01-SSC-9536 |
| Application Intelligence and Control: Application Intelligence, Application Control, App Flow Visualization for E10400 (1-year) | 01-SSC-9542 |
| Content Filtering Premium Business Edition for E10400 (1-year) | 01-SSC-9539 |
| Platinum Support for the SuperMassive E10400 (1-year) | 01-SSC-9548 |
| Comprehensive Gateway Security Suite: Application Intelligence, Threat Prevention, Content Filtering with Support for E10400 (1-year) | 01-SSC-9551 |
| SuperMassive E10800 support and security subscriptions | SKU |
| Application Intelligence and Control: Application Intelligence, Application Control, App Flow Visualization for E10800 (1-year) | 01-SSC-9560 |
| Threat Prevention: Intrusion Prevention, Gateway Anti-Virus, Gateway Anti-Spyware, Cloud Anti-Virus for E10800 (1-year) | 01-SSC-9554 |
| Content Filtering Premium Business Edition for E10800 (1-year) | 01-SSC-9557 |
| Platinum Support for the SuperMassive E10800 (1-year) | 01-SSC-9566 |
| Comprehensive Gateway Security Suite: Application Intelligence, Threat Prevention, Content Filtering with Support for E10800 (1-year) | 01-SSC-9569 |
| Modules and accessories* | SKU |
| SuperMassive E10000 Series system fan field replaceable unit (FRU) | 01-SSC-8885 |
| SuperMassive E10000 Series SSD fan module | 01-SSC-8886 |
| SuperMassive E10000 Series power supply FRU | 01-SSC-8887 |
| 10GBASE-SR SFP+ Short Reach Module | 01-SSC-9785 |
| 10GBASE-LR SFP+ Long Reach Module | 01-SSC-9786 |
| 10GBASE SFP+ 1M Twinax Cable | 01-SSC-9787 |
| 10GBASE SFP+ 3M Twinax Cable | 01-SSC-9788 |
| 1000BASE-SX SFP Short Haul Module | 01-SSC-9789 |
| 1000BASE-LX SFP Long Haul Module | 01-SSC-9790 |
| 1000BASE-T SFP Copper Module | 01-SSC-9791 |
| Management and reporting | SKU |
| SonicWall GMS 10-node software license | 01-SSC-3363 |
| SonicWall GMS E-Class 24x7 Software Support for 10 nodes (1-year) | 01-SSC-6514 |
| SonicWall Scrutinizer virtual appliance with Flow Analytics Module software license for up to 5 nodes (includes one year of 24x7 Software Support) | 01-SSC-3443 |
| SonicWall Scrutinizer with Flow Analytics Module software license for up to 5 nodes (includes one year of 24x7 Software Support) | 01-SSC-4002 |
| | |



^{*}Please consult with an SE for a complete list of supported SFP and SFP+ modules.

SuperMassive 9000 Series ordering information

| Product | SKU |
|---|-------------|
| SuperMassive 9800 | 01-SSC-0200 |
| SuperMassive 9800 High Availability | 01-SSC-0801 |
| SuperMassive 9600 | 01-SSC-3880 |
| SuperMassive 9600 High Availability | 01-SSC-3881 |
| SuperMassive 9400 | 01-SSC-3800 |
| SuperMassive 9400 High Availability | 01-SSC-3801 |
| SuperMassive 9200 | 01-SSC-3810 |
| SuperMassive 9200 High Availability | 01-SSC-3811 |
| SuperMassive 9200 support and security subscriptions | SKU |
| Advanced Gateway Security Suite – Capture ATP, Threat Prevention, Content Filtering and 24x7 Support for SuperMassive 9200 (1-year) | 01-SSC-1570 |
| Capture Advanced Threat Protection for SuperMassive 9200 (1-year) | 01-SSC-1575 |
| Comprehensive Gateway Security Suite: Application Intelligence, Threat Prevention, Content Filtering with Support for 9200 (1-year) | 01-SSC-4172 |
| ntrusion Prevention, Anti-Malware, CloudAV, Application Intellience, Control and Visualization for SuperMassive 9200 (1-year) | 01-SSC-4202 |
| Content Filtering Premium Business Edition for 9200 (1-year) | 01-SSC-4184 |
| Platinum Support for the SuperMassive 9200 (1-year) | 01-SSC-4178 |
| SuperMassive 9400 support and security subscriptions | SKU |
| Advanced Gateway Security Suite – Capture ATP, Threat Prevention, Content Filtering and 24x7 Support for SuperMassive 9400 (1-year) | 01-SSC-1580 |
| Capture Advanced Threat Protection for SuperMassive 9400 (1-year) | 01-SSC-1585 |
| Comprehensive Gateway Security Suite: Application Intelligence, Threat Prevention, Content Filtering with Support for 9400 (1-year) | 01-SSC-4136 |
| ntrusion Prevention, Anti-Malware, CloudAV, Application Intellience, Control and Visualization for SuperMassive 9400 (1-year) | 01-SSC-4166 |
| Content Filtering Premium Business Edition for 9400 (1-year) | 01-SSC-4148 |
| Platinum Support for the SuperMassive 9400 (1-year) | 01-SSC-4142 |
| SuperMassive 9600 support and security subscriptions | SKU |
| Advanced Gateway Security Suite – Capture ATP, Threat Prevention, Content Filtering and 24x7 Support for SuperMassive 9600 (1-year) | 01-SSC-1590 |
| Capture Advanced Threat Protection for SuperMassive 9600 (1-year) | 01-SSC-1595 |
| Comprehensive Gateway Security Suite: Application Intelligence, Threat Prevention, Content Filtering with Support for 9600 (1-year) | 01-SSC-4100 |
| ntrusion Prevention, Anti-Malware, CloudAV, Application Intellience, Control and Visualization for SuperMassive 9600 (1-year) | 01-SSC-4130 |
| Content Filtering Premium Business Edition for 9600 (1-year) | 01-SSC-4112 |
| Platinum Support for the SuperMassive 9600 (1-year) | 01-SSC-4106 |
| SuperMassive 9800 support and security subscriptions | SKU |
| Comprehensive Gateway Security Suite: Application Intelligence, Threat Prevention, Content Filtering with Support for 9800 (1-year) | 01-SSC-0809 |
| ntrusion Prevention, Anti-Malware, CloudAV, Application Intellience, Control and Visualization for SuperMassive 9800 (1-year) | 01-SSC-0827 |
| Content Filtering Premium Business Edition for 9800 (1-year) | 01-SSC-0821 |
| Gold 24x7 Support for the SuperMassive 9800 (1-year) | 01-SSC-0815 |
| Modules and accessories* | SKU |
| SonicWall SuperMassive 9800 Series system fan FRU | 01-SSC-0204 |
| SonicWall SuperMassive 9800 Series power supply AC FRU | 01-SSC-0203 |
| SonicWall SuperMassive 9000 Series system fan FRU | 01-SSC-3876 |
| SonicWall SuperMassive 9000 Series power supply AC FRU | 01-SSC-3874 |
| 10GBASE-SR SFP+ Short Reach Module | 01-SSC-9785 |
| 10GBASE-LR SFP+ Long Reach Module | 01-SSC-9786 |
| 1000BASE-SX SFP Short Haul Module | 01-SSC-9789 |
| 000BASE-LX SFP Long Haul Module | 01-SSC-9790 |
| 1000BASE-T SFP Copper Module | 01-SSC-9791 |
| Management and reporting | SKU |
| SonicWall GMS 10-node software license | 01-SSC-3363 |
| SonicWall GMS E-Class 24x7 Software Support for 10 nodes (1-year) | 01-SSC-6514 |
| | |
| SonicWall Scrutinizer virtual appliance with Flow Analytics Module software license for up to 5 nodes (includes one year of 24x7 Software Support) | 01-SSC-3443 |
| SonicWall Scrutinizer with Flow Analytics Module software license for up to 5 nodes (includes one year of 24x7 Software Support) SonicWall Scrutinizer Advanced Reporting Module software license for up to 5 nodes (includes one year of 24x7 Software Support) | 01-SSC-4002 |
| sonicivali Scrutinizar Advanced Reporting Module software license for up to 5 nodes (includes one year of 2/ly / Software Support) | 01-SSC-3773 |



^{*}Please consult with an SE for a complete list of supported SFP and SFP+ modules.

About Us

Over a 25 year history, SonicWall has been the industry's trusted security partner. From network security to access security to email security, SonicWall has continuously evolved its product portfolio, enabling organizations to innovate, accelerate and grow. With over a million security devices in almost 200 countries and territories worldwide, SonicWall enables its customers to confidently say yes to the future.