Network Security Appliance Series

Next-generation firewalls

Today's organizations face unprecedented security challenges. The sophistication and volume of attacks is increasing exponentially, often resulting in lost company, personal and customer data; stolen intellectual property; damaged reputations; and lost productivity. At the same time, security has become more complex. Organizations are grappling with the BYOD revolution and the explosion of personal devices connecting to the network. Personal smartphones and tablets slow network performance and productivity, and mobile applications such as social media and video streaming consume an enormous amount of bandwidth. In order to address these network security and productivity challenges, some organizations have chosen to compromise their security by turning off features to maintain network performance.

Now your organization can be both secure and productive without compromising network performance. The Dell™ SonicWALL™ Network Security Appliance (NSA) Series next-generation firewalls (NGFWs) delivers a deeper-level network security that does not compromise performance. It delivers world-class security and performance, using the same architecture as the flagship SuperMassive next-generation firewall line. At the same time, the NSA Series offers Dell's acclaimed ease of use and high value.

Based on years of research and development, the NSA Series is designed from the ground up for distributed enterprises, small- to medium-sized businesses, branch offices, school campuses and government agencies. It combines a revolutionary multi-core architecture with a patented*, Reassembly-Free Deep Packet Inspection® (RFDPI) single-pass threat-prevention engine in a massively scalable design. This gives organizations industry-leading protection, performance and scalability with a high number of concurrent connections, low latency and high connections-per-second with no file size limitations. Highly respected independent third-party testing firms have evaluated and/or certified the technology of the NSA Series firewalls.

Unlike competing legacy firewall and intrusion prevention technologies, the NSA Series looks at all traffic, regardless of port or protocol. The NSA Series blocks advanced malware attacks with the industry's highest on-the-fly SSL decryption rates. Its authentication server integration efficiently enforces acceptable use policy through granular application controls for bandwidth management and enhanced productivity. Unlike antiquated, two-box solutions that do not share threat information, the NSA Series integrates firewall and IPS. This connected intelligence enforces policy decisions to intensify security effectiveness, while slashing management burdens and organizational risk.

Benefits:

- Best in-class protection
- Multi-core architecture
- Ultra high performance
- Intrusion prevention
- Network-based anti-malware
- Secure remote access
- Secure wireless
- URL filtering
- Gateway anti-spam
- Application control
- Centralized management

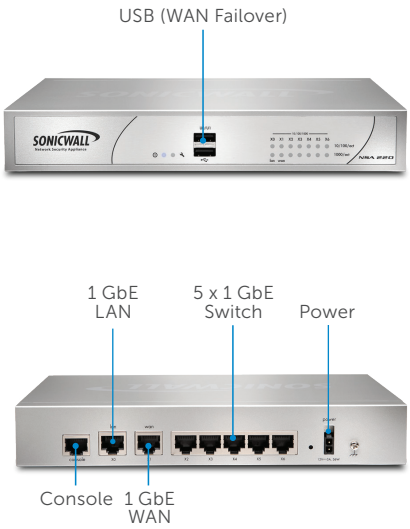
In addition, NSA Series firewalls feature network-based malware protection with cloud assist to provide organizations with an essential, primary layer of defense against millions of variants of malware.

NSA Series firewalls are also easy to administer and cost-effective because they support Dell's award-winning Global Management System platform that is capable of managing hundreds or even thousands of Dell SonicWALL firewalls from a single pane-of-glass console. Comprehensive real-time visualization shows what is happening on the network with thorough, on-box and off-box reporting.

U.S. Patents 7,310,815; 7,600,257; 7,738,380; 7,835,361; 7,991,723

The Dell SonicWALL NSA Series next-generation firewalls (NGFWs) utilize the latest multi-core hardware design and Reassembly-Free Deep Packet Inspection to protect the network from internal and external attacks without compromising performance. The NSA Series combines intrusion prevention, content and URL inspection, application intelligence and control, high availability and other advanced networking features.

Network Security Appliance 220 and 220 Wireless-N

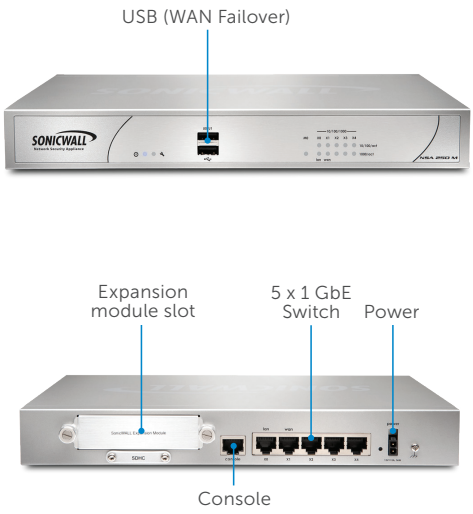


The Dell SonicWALL NSA 220 offers SMBs and branch offices in-depth frontline security, application and user control, network productivity and optional 802.11n dual-band wireless.

Firewall	NSA 220 and 220 W
Firewall throughput	600 Mbps
IPS throughput	195 Mbps
Anti-malware throughput	115 Mbps
Full DPI throughput	110 Mbps
IMIX throughput	180 Mbps
Maximum DPI connections	85,000
New connections/sec	32,000/sec

Description	NSA 220 and 220 W
NSA 220 firewall only	01-SSC-9750
NSA 220 Wireless-N firewall only	01-SSC-9752
NSA 220 TotalSecure (1-year)	01-SSC-9744
NSA 220 Wireless-N TotalSecure (1-year)	01-SSC-9745
Comprehensive Gateway Security Suite (1-year)	01-SSC-4648
Gateway Anti-Malware/IPS (1-year)	01-SSC-4612
Dynamic Support Support 24x7 (1-year)	01-SSC-4630
New connections/sec	32,000/sec

Network Security Appliance 250M and 250M Wireless-N

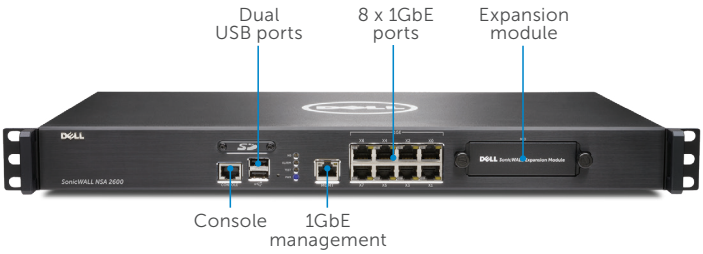


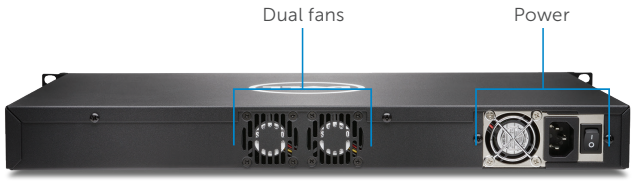
The Dell SonicWALL NSA 250M offers branch offices and distributed enterprises in-depth frontline security, application and user control, network productivity, an expansion slot for specialized modules and optional 802.11n dual-band wireless.

Firewall	NSA 250M and 250M W
Firewall throughput	750 Mbps
IPS throughput	250 Mbps
Anti-malware throughput	140 Mbps
Full DPI throughput	130 Mbps
IMIX throughput	210 Mbps
Maximum DPI connections	110,000
New connections/sec	64,000/sec

Description	NSA 250M and 250M W
NSA 250M firewall only	01-SSC-9755
NSA 250M Wireless-N firewall only	01-SSC-9757
NSA 250M TotalSecure (1-year)	01-SSC-9747
NSA 250M Wireless-N TotalSecure (1-year)	01-SSC-9748
Comprehensive Gateway Security Suite (1-year)	01-SSC-4606
Gateway Anti-Malware/IPS (1-year)	01-SSC-4570
Dynamic Support Support 24x7 (1-year)	01-SSC-4588
New connections/sec	32,000/sec

Network Security Appliance 2600



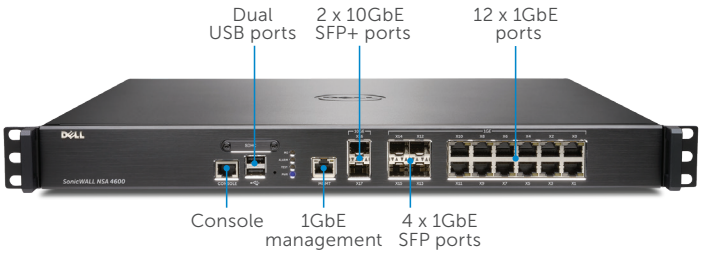


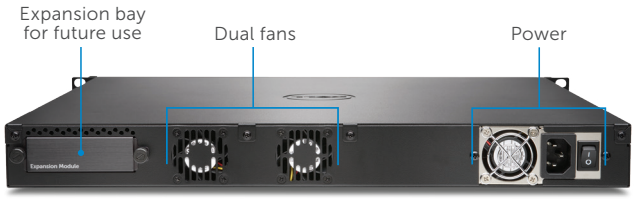
The Dell SonicWALL NSA 2600 is designed to address the needs of growing small organizations, branch offices and school campuses.

Firewall	NSA 2600
Firewall throughput	1.9 Gbps
IPS throughput	700 Mbps
Anti-malware throughput	400 Mbps
Full DPI throughput	300 Mbps
IMIX throughput	600 Mbps
Maximum DPI connections	125,000
New connections/sec	15,000/sec

Description	SKU
NSA 2600 firewall only	01-SSC-3860
NSA 2600 TotalSecure (1-year)	01-SSC-3863
Comprehensive Gateway Security Suite (1-year)	01-SSC-4453
Gateway Anti-Malware/IPS (1-year)	01-SSC-4459
Silver Support 24x7 (1-year)	01-SSC-4314

Network Security Appliance 3600/4600



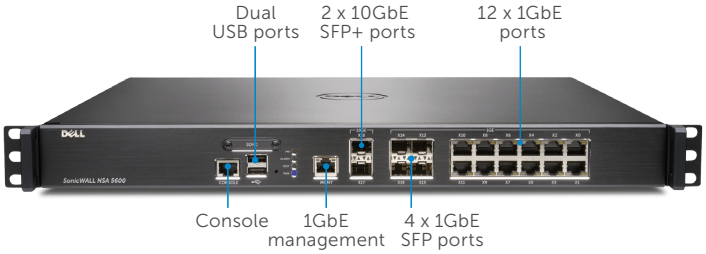


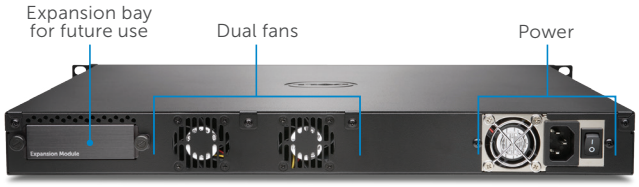
The Dell SonicWALL NSA 3600/4600 is ideal for branch office and small- to medium-sized corporate environments concerned about throughput capacity and performance.

Firewall	NSA 3600	NSA 4600
Firewall throughput	3.4 Gbps	6.0 Gbps
IPS throughput	1.1 Gbps	2.0 Gbps
Anti-malware throughput	600 Mbps	1.1 Gbps
Full DPI throughput	500 Mbps	800 Mbps
IMIX throughput	900 Mbps	1.6 Gbps
Maximum DPI connections	175,000	200,000
New connections/sec	20,000/sec	40,000/sec

Description	NSA 3600	NSA 4600
Firewall only	01-SSC-3850	01-SSC-3840
TotalSecure (1-year)	01-SSC-3853	01-SSC-3843
Comprehensive Gateway Security Suite (1-year)	01-SSC-4429	01-SSC-4405
Gateway Anti-Malware/IPS (1-year)	01-SSC-4435	01-SSC-4411
Silver Support 24x7 (1-year)	01-SSC-4302	01-SSC-4290

Network Security Appliance 5600



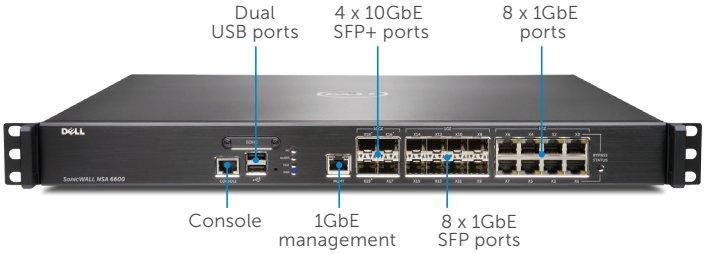


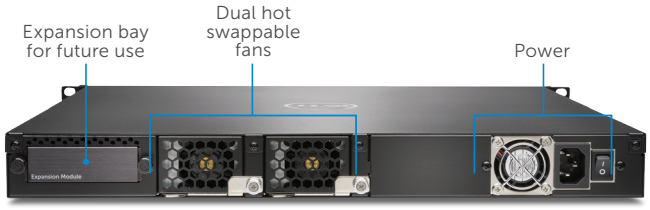
The Dell SonicWALL NSA 5600 is ideal for distributed, branch office and corporate environments needing significant throughput.

Firewall	NSA 5600
Firewall throughput	9.0 Gbps
IPS throughput	3.0 Gbps
Anti-malware throughput	1.7 Gbps
Full DPI throughput	1.6 Gbps
IMIX throughput	2.4 Gbps
Maximum DPI connections	500,000
New connections/sec	60,000/sec

Description	SKU
NSA 5600 firewall only	01-SSC-3830
NSA 5600 TotalSecure (1-year)	01-SSC-3833
Comprehensive Gateway Security Suite (1-year)	01-SSC-4234
Gateway Anti-Malware/IPS (1-year)	01-SSC-4240
Gold Support 24x7 (1-year)	01-SSC-4284

Network Security Appliance 6600





The Dell SonicWALL NSA 6600 is ideal for large distributed and corporate central site environments requiring high throughput capacity and performance.

Firewall	NSA 6600
Firewall throughput	12.0 Gbps
IPS throughput	4.5 Gbps
Anti-malware throughput	3.0 Gbps
Full DPI throughput	3.0 Gbps
IMIX throughput	3.5 Gbps
Maximum DPI connections	500,000
New connections/sec	90,000/sec

Description	SKU
NSA 6600 firewall only	01-SSC-3820
NSA 6600 TotalSecure (1-year)	01-SSC-3823
Comprehensive Gateway Security Suite (1-year)	01-SSC-4210
Gateway Anti-Malware/IPS (1-year)	01-SSC-4216
Gold Support 24x7 (1-year)	01-SSC-4278

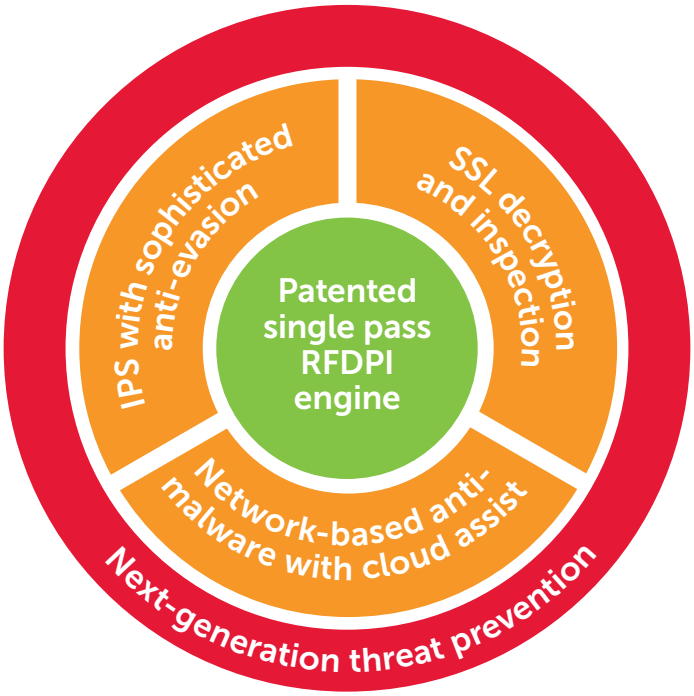
Achieve deeper network security

Dell SonicWALL NSA Series firewalls are capable of providing organizations of any size with a deeper level of network security because they are designed using a scalable, multi-core hardware architecture and a patented, single-pass, low-latency, Reassembly-Free Deep Packet Inspection® (RFDPI) engine that can scan every byte of every packet while maintaining high performance. The Dell SonicWALL NSA Series goes deeper than other firewalls with an RFDPI engine that combines real-time SSL decryption and inspection, an intrusion prevention system (IPS) that features sophisticated anti-evasion technology and a network-based malware protection system that leverages the power of the cloud. Now organizations can block daily new threats as they appear.

It is estimated that organizations are blind to approximately one-third of their network traffic due to SSL encryption. SSL Decryption and Inspection technology available on the Dell SonicWALL NSA Series enables the RFDPI engine to decrypt and inspect all network traffic on every port.

Every hour, new variants of malware are developed. The Dell SonicWALL NSA Series keeps you abreast of these threats with network-based malware protection that leverages a cloud database which is updated continually and currently contains more than 15 million variants of malware.

The Dell SonicWALL Intrusion Prevention Service (IPS) protects against an array of network-based application vulnerabilities and exploits. New application vulnerabilities are discovered every day making ongoing IPS updates critical in keeping protection up to date from emerging threats. Dell SonicWALL goes a step beyond traditional solutions with an intrusion prevention system that features sophisticated anti-evasion technology. It scans all network traffic for worms, Trojans, software vulnerabilities, backdoor exploits and other types of malicious attacks. Cybercriminals often try to circumvent the IPS by using complex algorithms to evade detection. Dell NGFWs feature advanced threat protection to decode hidden attacks before they can harm your organization. By focusing on known malicious traffic, Dell SonicWALL IPS filters out false positives while increasing network reliability and performance. Designed to protect against both internal and external threats, Dell SonicWALL IPS monitors network traffic for malicious or anomalous behavior, then blocks or logs traffic based on predefined policy.

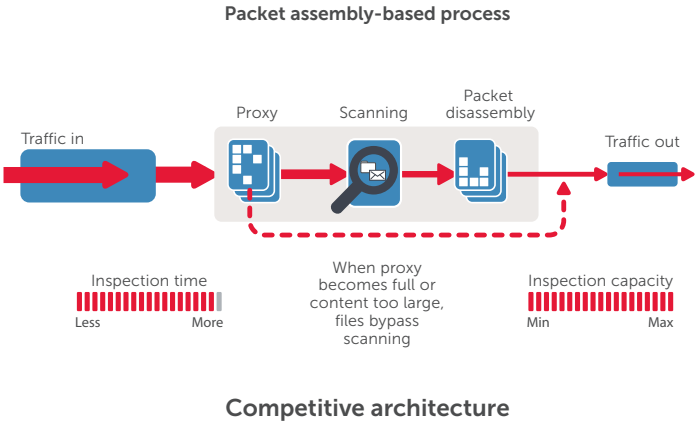


Reassembly-Free Deep Packet Inspection engine

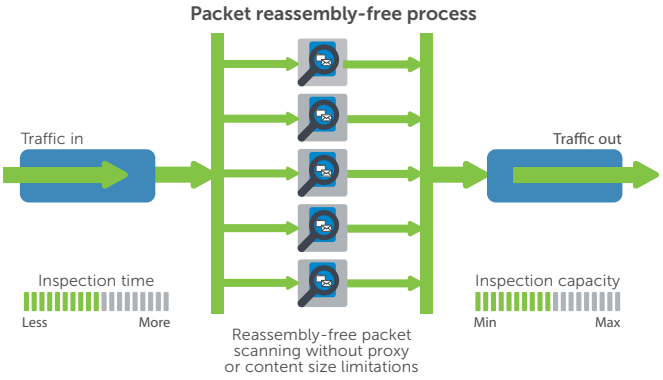
The Dell SonicWALL Reassembly-Free Deep Packet Inspection (RFDPI) engine provides superior threat protection and application control without compromising performance. It relies on streaming traffic payload inspection to detect threats at Layers 3-7, and takes network streams through extensive and repeated 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 pre-set 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 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.



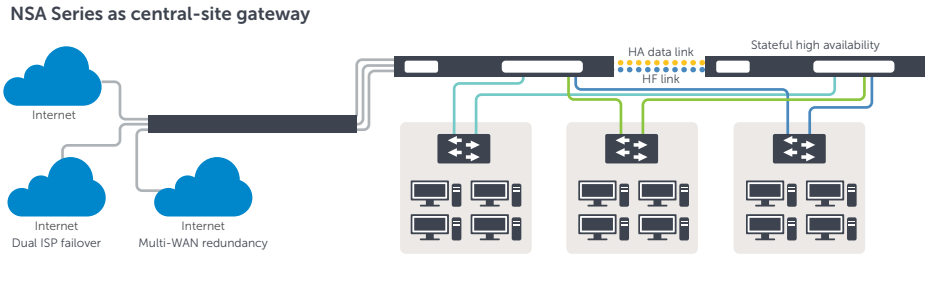
Competitive architecture



Dell SonicWALL architecture

Flexible, customizable deployment options – NSA Series at-a-glance

Every Dell SonicWALL NSA appliance utilizes a breakthrough, multi-core hardware design and Reassembly-Free Deep Packet Inspection for internal and external network protection without compromising network performance. The NSA Series NGFWs combine high-speed intrusion prevention; file and content inspection; and powerful application intelligence and control with an extensive array of advanced networking and flexible configuration features. The NSA Series offers an affordable platform that is easy to deploy and manage in a wide variety of large, branch office and distributed network environments.

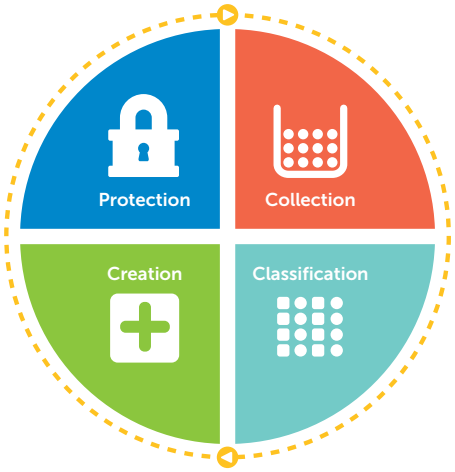


Security and protection

The dedicated, in-house Dell SonicWALL Threat 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.

Dell SonicWALL NGFW customers benefit from continuously updated threat protection around the clock, with new updates taking effect immediately without reboots or interruptions. The signatures resident on the appliances are designed to protect against wide classes of attacks, covering tens of thousands of individual threats with a single signature.

In addition to the countermeasures on the appliance, NSA appliances also have access to the Dell SonicWALL CloudAV Service, which extends the onboard signature intelligence with more than twelve million signatures. This CloudAV database is accessed via a proprietary, light-weight protocol by the firewall to augment the inspection done on the appliance. With Geo-IP and botnet filtering capabilities, Dell SonicWALL NGFWs are able to block traffic from dangerous domains or entire geographies in order to reduce the risk profile of the network.

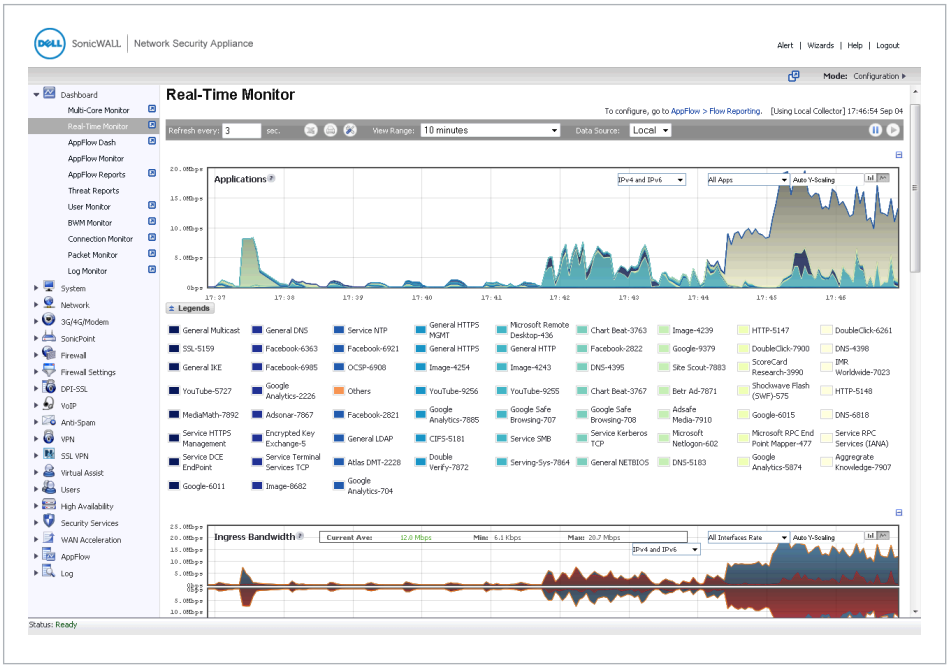


Application intelligence and control

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.

Dell 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.

The Dell SonicWALL Global Management System (GMS®) simplifies management of application intelligence and control using an intuitive, web-based interface.



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, malware and 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.

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 Dell 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 immediate effect 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.

Features

Threat prevention	
Feature	Description
Network-based malware protection	The Dell SonicWALL 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.
CloudAssist malware protection	A continuously updated database of over 12 million threat signatures resides in the Dell 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 Dell 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 decryption and 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, SMBv1/v2 and others, 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.
Enforced Anti-Virus and Anti-Spyware Client software	Automatically detect non-compliant endpoint machines and install the Dell Anti-Virus and Anti-Spyware software* machine-by-machine across the network regardless of whether devices are inside the corporate network or outside connected via VPN. Windows only.
Enforced Content Filter Client software	Automatically detect non-compliant endpoint machines and install the Dell Content Filter Client** machine-by-machine across the network regardless of whether devices are inside the corporate network or outside connected via VPN.

**Requires the Dell SonicWALL Anti-Virus and Anti-Spyware Client software **Requires the Dell SonicWALL Content Filter Client software*

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 4,300 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 allocate and regulate available bandwidth for critical applications or application categories while inhibiting nonessential 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.

Features

Content filtering	
Feature	Description
Inside/Outside content filtering	Enforce acceptable use policies and block access to websites containing information or images that are objectionable or unproductive with Content Filtering Service. Extend policy enforcement to block internet content for devices located outside the firewall perimeter with the Content Filtering Client.
Granular controls	Block 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	Enable teachers to choose from hundreds of thousands of free educational videos from YouTube EDU that are organized by subject and grade and align with common educational standards.
Web caching	URL ratings are cached locally on the Dell 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. Utilize a layered approach to anti-virus and anti-spyware protection to extend to both client and server.
Automated enforcement	Ensure 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 decrease 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 transmit confidential data, providing greater desktop security and performance.

Features

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 provides the ability to protect against DOS/DDoS through UDP/ICMP flood protection and connection rate limiting.
Flexible deployment options	The NSA Series can be deployed in traditional NAT, Layer 2 Bridge, Wire Mode and Network Tap modes.
IPv6 support	Internet Protocol version 6 (IPv6) is in its early stages to replace IPv4. With the latest SonicOS (either 5.9 or 6.2), the hardware will support Filtering and wire mode implementations.
High availability/clustering	The NSA Series supports Active/Passive with state synchronization, Active/Active 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-based 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 QoS	Guarantees critical communications with 802.1p and 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.

Management and reporting	
Feature	Description
Global Management System	The Dell SonicWALL GMS monitors, configures and reports on multiple Dell SonicWALL appliances through a single management console with an intuitive interface to reduce management costs and complexity.
Powerful, single device management	An intuitive, web-based interface allows quick and convenient configuration in addition to a comprehensive CLI 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 Dell SonicWALL Scrutinizer or other tools that support IPFIX and NetFlow with extensions.

Virtual Private Networking	
Feature	Description
IPSec VPN for site-to-site connectivity	High-performance IPSec VPN allows the NSA 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.

Features

Virtual Private Networking (continued)

Feature	Description
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/Citrix/Terminal Services 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.

SonicOS feature summary

Firewall
- Reassembly-Free Deep Packet Inspection
- Deep packet inspection for SSL
- Stateful packet inspection
- TCP reassembly
- Stealth mode
- Common Access Card (CAC) support
- DOS attack protection
- UDP/ICMP/SYN flood protection

Intrusion prevention
- Signature-based scanning
- Automatic signature updates
- Outbound threat prevention
- IPS exclusion list
- GeoIP and reputation-based filtering
- Regular expression matching

Anti-malware
- Stream-based malware scanning
- Gateway anti-virus
- Gateway anti-spyware
- SSL decryption
- Bi-directional inspection
- No file size limitation
- CloudAV threat database

Application control
- 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 filtering
- URL filtering
- Anti-proxy technology
- Keyword blocking
- Bandwidth manage CFS rating categories
- Unified policy model with app control
- 56 Content filtering categories
- Content Filtering Service Client option (SonicOS 6.2)

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

Networking
- Jumbo Frames (SonicOS 6.2)
- Path MTU Discovery
- Enhanced Logging
- VLAN Trunking
- RSTP (Rapid Spanning Tree Protocol)
- Layer-2 Network Discovery
- Port Mirroring
- Layer-2 QoS
- Port Security• Dynamic routing
- SonicPoint wireless controller
- 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
- Logging
- Netflow/IPFix exporting
- App traffic visualization
- Centralized policy management
- Single Sign-On (SSO)
- Terminal service/Citrix support
- Solera Networks Forensics integration

IPv6
- IPv6 Filtering
- 6rd (Rapid Deployment)
- DHCP Prefix Delegation
- Wire Mode
- BGP (SonicOS 5.9)

SonicOS 5.9 applies to all models of NSA 220 and NSA 250M

SonicOS 6.2 applies to all models of NSA 2600, NSA 3600, NSA 4600, NSA 5600, and NSA 6600

NSA Series system specifications

	NSA 220/W	NSA 250M/W
Operating system	SonicOS 5.9	
Security cores	2x 500 MHz	2x 700 MHz
1 GbE interfaces	7 x 1GbE	5 x 1GbE
Management interfaces	CLI, SSH, GUI, GMS	
Memory (RAM)	512 MB	512 MB
Expansion	2 USB, SD Card	1 Module Interface, 2 USB, SD Card
Firewall inspection throughput[1]	600 Mbps	750 Mbps
Full DPI throughput[2]	110 Mbps	130 Mbps
Application inspection throughput[2]	195 Mbps	250 Mbps
IPS throughput[2]	195 Mbps	250 Mbps
Anti-malware inspection throughput[2]	115 Mbps	140 Mbps
IMIX throughput[3]	180 Mbps	210 Mbps
VPN throughput[3]	150 Mbps	200 Mbps
Connections per second	2,200/sec	3,000/sec
Maximum connections (SPI)	85,000	110,000
Maximum connections (DPI)	32,000	64,000
SonicPoints supported (Maximum)	16	16
Single Sign On (SSO) Users	250	250
VPN	**NSA 220/W**	**NSA 250M/W**
Site-to-site tunnels	25	50
IPSec VPN clients (Maximum)	2 (25)	2 (25)
SSL VPN licenses (Maximum)	2 (15)	2 (15)
Encryption/Authentication	DES, 3DES, AES (128, 192, 256-bit)/MD5, SHA-1, Suite B Cryptography	
Key exchange	Diffie Hellman Groups 1, 2, 5, 14	
Route-based VPN	RIP, OSPF	
Networking	**NSA 220/W**	**NSA 250M/W**
IP IP address assignment	Static (DHCP PPPoE, L2TP and PPTP client), Internal DHCP server, DHCP Relay	
NAT modes	1:1, many:1, 1:many, flexible NAT (overlapping IPS), PAT, transparent mode	
VLAN interfaces	25	35
Routing protocols	BGP, OSPF, RIPv1/v2, static routes, policy-based routing, multicast	
QoS	Bandwidth priority, max bandwidth, guaranteed bandwidth, DSCP marking, 802.1p	
Authentication	XAUTH/RADIUS, Active Directory, SSO, LDAP, Novell, internal user database, Terminal Services, Citrix	
VoIP	Full H323-v1-5, SIP	
Standards	TCP/IP, ICMP, HTTP, HTTPS, IPSec, ISAKMP/IKE, SNMP, DHCP, PPPoE, L2TP, PPTP, RADIUS, IEEE 802.3	
Certifications	VPNC, ICSA Firwall, ICSA Anti-Virus, Common Criteria NDPP (supersedes EAL)	
Certifications pending	FIPS 140-2	
Common Access Card (CAC)	Supported	
Wireless	**NSA 220/W**	**NSA 250M/W**
Standards	802.11a/b/g/n (WEP, WPA, WPA2, 802.11i, TKIP, PSK,02.1x, EAP-PEAP, EAP-TTLS	
Virtual access points (VAPs)5–antennas (5 dBi Diversity)	External triple, detachable	
Radio power–802.11a/802.11b/802.11g	15.5 dBm max/18 dBm max/17 dBM @ 6 Mbps, 13 dBM @ 54 Mbps	
Radio power–802.11n (2.4GHz)/802.11n (5.0GHz)	19 dBm MCS 0, 11 dBm MCS 15/17 dBm MCS 0, 12 dBm MCS 15	
Radio receive sensitivity–802.11a/802.11b/802.11g	-95 dBm MCS 0, -81 dBm MCS 15/-90 dBm @ 11Mbps/-91 dBm @ 6Mbps, -74 dBm @ 54 Mbps	
Radio receive sensitivity–802.11n (2.4GHz)/802.11n (5.0GHz)	-89 dBm MCS 0, -70 dBm MCS 15/-95 dBm MCS 0, -76 dBm MCS 15	
Hardware	**NSA 220/W**	**NSA 250M/W**
Power supply	36W external	
Fans	No fan/1 internal fan	2 internal fans
Input power	100-240 VAC, 60-50 Hz	
Maximum power consumption (W)	11W/15W	12W/16W
Form factor	Desktop / 1U Rack Mountable Kit Available	
Dimensions	7.125 x 1.5 x 10.5 in / 18.10 x 3.81 x 26.67 cm	
Weight	1.95 lbs/0.88 kg/2.15 lbs/0.97 kg	3.05 lbs/1.38 kg/3.15 lbs/1.43 kg
WEEE weight	3.05 lbs/1.38 kg/3.45 lbs/1.56 kg	4.4 lbs/2.0kg/4.65 lbs/2.11 kg
Shipping weight	4.35lb/4.7lb	5.6 lb/5.9 lb
Major regulatory	FCC Class A, CE (EMC, LVD, RoHS), C-Tick, VCCI Class A, MSIP/KCC Class A, UL, cUL, TUV/GS, CB, Mexico CoC by UL, WEEE , REACH, ANATEL, BSMI, GOST-R (NSA 220), CU (NSA 250M)	
Environment	40-105° F, 0-40° C	
Humidity	5-95% non-condensing	

[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/GatewayAV/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. *Future use.

NSA Series system specifications

	NSA 2600	NSA 3600	NSA 4600	NSA 5600	NSA 6600
Operating system	SonicOS 6.2				
Security cores	4 x 800 MHz	6 x 800 MHz	8 x 1.1 GHz	10 x 1.3 GHz	24 x 1.0 GHz
10 GbE interfaces	—	2 x 10-GbE SFP+			4 x 10-GbE SFP+
1 GbE interfaces	8 x 1 GbE	4 x 1-GbE SFP, 12 x 1 GbE			8 x 1-GbE SFP, 8 x 1 GbE (1 LAN Bypass pair)
Management interfaces	1 GbE, 1 Console				
Memory (RAM)	2.0 GB			4.0 GB	
Expansion	1 Expansion Slot (Rear)*, SD Card*				
Firewall inspection throughput[1]	1.9 Gbps	3.4 Gbps	6.0 Gbps	9.0 Gbps	12.0 Gbps
Full DPI throughput[2]	300 Mbps	500 Mbps	800 Mbps	1.6 Gbps	3.0 Gbps
Application inspection throughput[2]	700 Mbps	1.1 Gbps	2.0 Gbps	3.0 Gbps	4.5 Gbps
IPS throughput[2]	700 Mbps	1.1 Gbps	2.0 Gbps	3.0 Gbps	4.5 Gbps
Anti-malware inspection throughput[2]	400 Mbps	600 Mbps	1.1 Gbps	1.7 Gbps	3.0 Gbps
IMIX throughput[3]	600 Mbps	900 Mbps	1.6 Gbps	2.4 Gbps	3.5 Gbps
SSL Inspection and Decryption (DPI SSL)[2]	200 Mbps	300 Mbps	500 Mbps	800 Mbps	1.3 Gbps
VPN throughput[3]	1.1 Gbps	1.5 Gbps	3.0 Gbps	4.5 Gbps	5.0 Gbps
Connections per second	15,000/sec	20,000/sec	40,000/sec	60,000/sec	90,000/sec
Maximum connections (SPI)	225,000	325,000	400,000	562,500	750,000
Maximum connections (DPI)	125,000	175,000	200,000	375,000	500,000
SonicPoints supported (Maximum)	32	48	64	96	96
Single Sign On (SSO) Users	250	500	1,000	2,500	4,000
VPN	**NSA 2600**	**NSA 3600**	**NSA 4600**	**NSA 5600**	**NSA 6600**
Site-to-site tunnels	75	800	1,500	4,000	6,000
IPSec VPN clients (Maximum)	10 (250)	50 (1,000)	500 (3,000)	2,000 (4,000)	2,000 (6,000)
SSL VPN licenses (Maximum)	2 (25)	2 (30)	2 (30)	2 (50)	2 (50)
Encryption/Authentication	DES, 3DES, AES (128, 192, 256-bit)/MD5, SHA-1, Suite B Cryptography				
Key exchange	Diffie Hellman Groups 1, 2, 5, 14				
Route-based VPN	RIP, OSPF				
Networking	**NSA 2600**	**NSA 3600**	**NSA 4600**	**NSA 5600**	**NSA 6600**
IP address assignment	Static (DHCP PPPoE, L2TP and PPTP client), Internal DHCP server, DHCP Relay				
NAT modes	1:1, many:1, 1:many, flexible NAT (overlapping IPS), PAT, transparent mode				
VLAN interfaces	50	256	256	400	500
Routing protocols	BGP, OSPF, RIPv1/v2, static routes, policy-based routing, multicast				
QoS	Bandwidth priority, max bandwidth, guaranteed bandwidth, DSCP marking, 802.1p				
Authentication	XAUTH/RADIUS, Active Directory, SSO, LDAP, Novell, internal user database, Terminal Services, Citrix				
VoIP	Full H323-v1-5, SIP				
Standards	TCP/IP, ICMP, HTTP, HTTPS, IPSec, ISAKMP/IKE, SNMP, DHCP, PPPoE, L2TP, PPTP, RADIUS, IEEE 802.3				
Certifications	VPNC, ICSA Firewall, IPv6 (Phase 2)				
Certifications pending	FIPS 140-2, Common Criteria NDPP (supersedes EAL)				
Common Access Card (CAC)	Pending				
Hardware	**NSA 2600**	**NSA 3600**	**NSA 4600**	**NSA 5600**	**NSA 6600**
Power supply	200W	Single, Fixed 250W			
Fans	Dual, Fixed				Dual, redundant, hot swappable
Input power	100-240 VAC, 60-50 Hz				
Maximum power consumption (W)	49.4	74.3	86.7	90.9	113.1
Form factor	1U Rack Mountable				
Dimensions	1.75 x 10.25 x 17 in (4.5 x 26 x 43 cm)	1.75 x 19.1 x 17 in (4.5 x 48.5 x 43 cm)			
Weight	10.1 lb (4.6 kg)	13.56 lb (6.15 Kg)			14.93 lb (6.77 Kg)
WEEE weight	11.0 lb (5.0 kg)	14.24 lb (6.46 Kg)			19.78 lb (8.97 Kg)
Shipping weight	14.3 lb (6.5 kg)	20.79lb (9.43 Kg)			26.12 lb (11.85 Kg)
Major regulatory	FCC Class A, CE (EMC, LVD, RoHS), C-Tick, VCCI Class A, MSIP/KCC Class A, UL, cUL, TUV/GS, CB, Mexico CoC by UL, WEEE , REACH, ANATEL, BSMI, CU				
Environment	32-105 F, 0-40 deg C				
Humidity	10-90% non-condensing.				
MTBF (Years)	20.2	16.8	16.0	15.4	13.3

[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/GatewayAV/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.
*Future use.

NSA Series ordering information

Product	SKU
NSA 220 TotalSecure (1-year)	01-SSC-9744
NSA 220 Wireless-N TotalSecure (1-year)	01-SSC-9745
NSA 250M TotalSecure (1-year)	01-SSC-9747
NSA 250M Wireless-N TotalSecure (1-year)	01-SSC-9748
NSA 2600 TotalSecure (1-year)	01-SSC-3863
NSA 3600 TotalSecure (1-year)	01-SSC-3853
NSA 4600 TotalSecure (1-year)	01-SSC-3843
NSA 5600 TotalSecure (1-year)	01-SSC-3833
NSA 6600 TotalSecure 1-year)	01-SSC-3823
NSA 220W and 220 Wireless-N support and security subscriptions	**SKU**
Comprehensive Gateway Security Suite–Application Intelligence, Threat Prevention, Content Filtering with Support for NSA 220 (1-year)	01-SSC-4648
Threat Prevention–Intrusion Prevention, Gateway Anti-Virus, Gateway Anti-Spyware, Cloud Anti-Virus for NSA 220 (1-year)	01-SSC-4612
Dynamic Support for NSA 220 (1-year)	01-SSC-4630
Content Filtering Premium Business Edition for NSA 220 (1-year)	01-SSC-4618
Comprehensive Anti-Spam Service for NSA NSA 220 (1-year)	01-SSC-4642
NSA 250M and 250M Wireless-N support and security subscriptions	**SKU**
Comprehensive Gateway Security Suite–Application Intelligence, Threat Prevention, Content Filtering with Support for NSA 250M (1-year)	01-SSC-4606
Threat Prevention–Intrusion Prevention, Gateway Anti-Virus, Gateway Anti-Spyware, Cloud Anti-Virus for NSA 250M (1-year)	01-SSC-4570
Dynamic Support for NSA 250M (1-year)	01-SSC-4588
Content Filtering Premium Business Edition for NSA 250M (1-year)	01-SSC-4576
Comprehensive Anti-Spam Service for NSA 250M (1-year)	01-SSC-4600
NSA 2600 support and security subscriptions	**SKU**
Comprehensive Gateway Security Suite–Application Intelligence, Threat Prevention, Content Filtering with Support for NSA 2600 (1-year)	01-SSC-4453
Threat Prevention–Intrusion Prevention, Gateway Anti-Virus, Gateway Anti-Spyware, Cloud Anti-Virus for NSA 2600 (1-year)	01-SSC-4459
Silver 24x7 Support for NSA 2600 (1-year)	01-SSC-4314
Content Filtering Premium Business Edition for NSA 2600 (1-year)	01-SSC-4465
Comprehensive Anti-Spam Service for NSA 2600 (1-year)	01-SSC-4471
NSA 3600 support and security subscriptions	**SKU**
Comprehensive Gateway Security Suite–Application Intelligence, Threat Prevention, Content Filtering with Support for NSA 3600 (1-year)	01-SSC-4429
Threat Prevention–Intrusion Prevention, Gateway Anti-Virus, Gateway Anti-Spyware, Cloud Anti-Virus for NSA 3600 (1-year)	01-SSC-4435
Silver 24x7 Support for NSA 3600 (1-year)	01-SSC-4302
Content Filtering Premium Business Edition for NSA 3600 (1-year)	01-SSC-4441
Comprehensive Anti-Spam Service for NSA 3600 (1-year)	01-SSC-4447
NSA 4600 support and security subscriptions	**SKU**
Comprehensive Gateway Security Suite–Application Intelligence, Threat Prevention, Content Filtering with Support for NSA 4600 (1-year)	01-SSC-4405
Threat Prevention–Intrusion Prevention, Gateway Anti-Virus, Gateway Anti-Spyware, Cloud Anti-Virus for NSA 4600 (1-year)	01-SSC-4411
Silver 24x7 Support for NSA 4600 (1-year)	01-SSC-4290
Content Filtering Premium Business Edition for NSA 4600 (1-year)	01-SSC-4417
Comprehensive Anti-Spam Service for NSA 4600 (1-year)	01-SSC-4423

NSA Series ordering information

NSA 5600 support and security subscriptions	SKU
Comprehensive Gateway Security Suite–Application Intelligence, Threat Prevention, Content Filtering with Support for NSA 5600 (1-year)	01-SSC-4234
Threat Prevention–Intrusion Prevention, Gateway Anti-Virus, Gateway Anti-Spyware, Cloud Anti-Virus for NSA 5600 (1-year)	01-SSC-4240
Gold 24x7 Support for NSA 5600 (1-year)	01-SSC-4284
Content Filtering Premium Business Edition for NSA 5600 (1-year)	01-SSC-4246
Comprehensive Anti-Spam Service for NSA 5600 (1-year)	01-SSC-4252
NSA 6600 support and security subscriptions	**SKU**
Comprehensive Gateway Security Suite–Application Intelligence, Threat Prevention, Content Filtering with Support for NSA 6600 (1-year)	01-SSC-4210
Threat Prevention–Intrusion Prevention, Gateway Anti-Virus, Gateway Anti-Spyware, Cloud Anti-Virus for NSA 6600 (1-year)	01-SSC-4216
Gold 24x7 Support for NSA 6600 (1-year)	01-SSC-4278
Content Filtering Premium Business Edition for NSA 6600 (1-year)	01-SSC-4222
Comprehensive Anti-Spam Service for NSA 6600 (1-year)	01-SSC-4228
Modules and accessories*	**SKU**
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
NSA 220/250M Rack-mount kit	**SKU**
NSA 220 Rack Mount Kit	01-SSC-9212
NSA 250M Rack Mount Kit	01-SSC-9211
NSA 250M expansion modules	**SKU**
4-Port GbE Expansion Module for NSA 250M series	01-SSC-8619
2 Port SFP Module	01-SSC-8826
1-Port T1/E1 Module M1	01-SSC-8829
1-port ADSL Annex A Module M1	01-SSC-8827
1-port ADSL Annex B Module M1	01-SSC-8828
2-port GbE with LAN Bypass Module M1	01-SSC-8830
Management and reporting	**SKU**
Dell SonicWALL GMS 10 Node Software License	01-SSC-3363
Dell SonicWALL GMS E-Class 24x7 Software Support for 10 node (1-year)	01-SSC-6514
Dell 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
Dell SonicWALL Scrutinizer with Flow Analytics Module Software License for up to 5 nodes (includes one year of 24x7 Software Support)	01-SSC-4002
Dell SonicWALL Scrutinizer Advanced Reporting Module Software License for up to 5 nodes (includes one year of 24x7 Software Support)	01-SSC-3773

*Please consult with a Dell Security Products SE for a complete list of supported SFP and SFP+ modules

Regulatory model numbers:

NSA 220–APL24-08E
NSA 220 W–APL24-08F
NSA 250M–APL25-090
NSA 250M W–APL25-091
NSA 2600–1RK29-0A9
NSA 3600–1RK26-0A2
NSA 4600–1RK26-0A3
NSA 5600–1RK26-0A4
NSA 6600–1RK27-0A5

For more information

Dell SonicWALL
2001 Logic Drive
San Jose, CA 95124

www.sonicwall.com
T +1 408.745.9600
F +1 408.745.9300

DataSheet-NSASeries-US-TD639-20140509