SonicWall Mid-Range Gen 8 NS*a* Series

Best-in-Class Threat Protection for Distributed Enterprises & Campuses

SonicWall latest mid-range next-gen firewalls, Network Security Appliance (NS*a*) 2800 and 3800 offer medium and large enterprises industry-leading threat prevention performance at the lowest total cost of ownership in their class. The firewalls are the cornerstones of the threat protection solution that includes simplified centralized firewall management, Zero Trust enablement, flexible licensing with an option of managed firewall services, and an embedded cyber warranty for risk mitigation.

The Gen 8 firewalls deliver comprehensive security features such as intrusion prevention, VPN, application control, malware analysis, URL filtering, DNS Security, Geo-IP and Bot-net services, protecting the perimeter from advanced threats without becoming a bottleneck.

NSa 3800

NSa 2800

Gen 8 NS*a* 2800 and 3800 Spec Preview. View full specs »

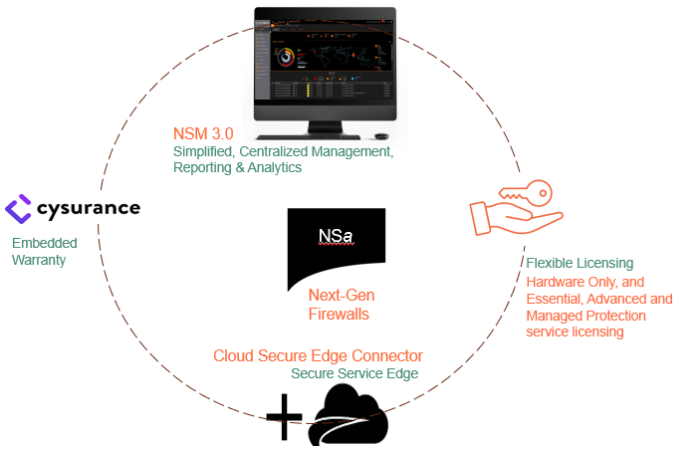
Up to 8 Gbps	Up to 12 Gbps	Up to 3 Million
Threat Prevention Throughput	Firewall Throughput	Connections

DATASHEET

HIGHLIGHTS

- Form Factor: 1U Rackable Mounted
- Multi-gigabit Threat and Malware Analysis Throughput
- Superior TLS performance (sessions and throughput)
- Best-in-class price-performance
- Expandable storage
- Advanced DNS Filtering
- Reputation-based Content Filtering Service (CFS 5.0)
- Simplified Centralized SaaS and On-Premises management via Network Security Manager
- Wi-Fi 6 firewall management
- SonicPlatform Support
- Enterprise Internet Edge Ready
- Secure SD-WAN capability
- TLS 1.3 support
- Flexible licensing including Hardware Only, Essential, Advanced and Managed Protection Security Service
- Powered by SonicWall Capture Labs threat research team
- SonicWall Switch, SonicWave Access Point and Capture Client integration
- Cloud Secure Edge Connector Support
- Embedded Warranty up to USD$200K by Cysurance included in Service Suites

Gen 8 NS*a* firewalls drives strong security with a comprehensive solution encompassing of threat protection, centralized management, reporting and analytics, security and managed service options, Secure Service Edge (SSE) integration, and cyber warranty.



Hardware

NS*a* 2800 and 3800, built with the latest hardware components, deliver multi-gigabit threat prevention throughput — even for encrypted traffic. Featuring a high port density, including multiple 10 GbE, the firewall solutions support network and hardware redundancy with high availability and dual power supplies.

Architecture

The Gen 8 NSa Series runs on SonicOS 8, a new operating system that delivers a modern user interface, intuitive workflows and user-first design principles. SonicOS 8 provides multiple features designed to facilitate enterprise-level workflows. It offers easy policy configuration, zero-touch deployment and flexible management — all of which allow enterprises to improve both their security and operational efficiency.

NS*a* 2800 and 3800 support advanced networking features, such as SD-WAN, dynamic routing, layer 4-7 highavailability and high-speed VPN functionality. In addition to integrating firewall and switch capabilities, the appliance provides a single-pane-of-glass interface to manage both switches and access points.

Threat Protection and Security Services

Built to mitigate the advanced cyberattacks of today and tomorrow, the Gen 8 NS*a* Series offers access to SonicWall's advanced firewall security services, allowing you to protect your entire IT infrastructure. Solutions and services such as Cloud Application Security, Capture Advanced Threat Protection (ATP) cloud-based sandboxing, patented Real-Time Deep Memory Inspection (RTDMI™) and Reassembly-Free Deep Packet Inspection (RFDPI) — for all traffic including TLS 1.3 — offer comprehensive gateway protection from most stealthy and dangerous malware, including zero-day and encrypted threats.

Flexible licensing includes Hardware Only, Essential, Advanced and Managed Protection Security Suite (MPSS) to meet your unique needs. MPSS augments resources with managed services for firewalls.

A Cloud Secure Edge Connector integration provides secure access to their private applications behind the firewalls. Users and devices can adhere to a Zero-Trust framework for application access.

Cyber Warranty

An embedded cyber warranty is offered as part of your security services to mitigate costs of security breach, meet compliance requirements and promote peace of mind.

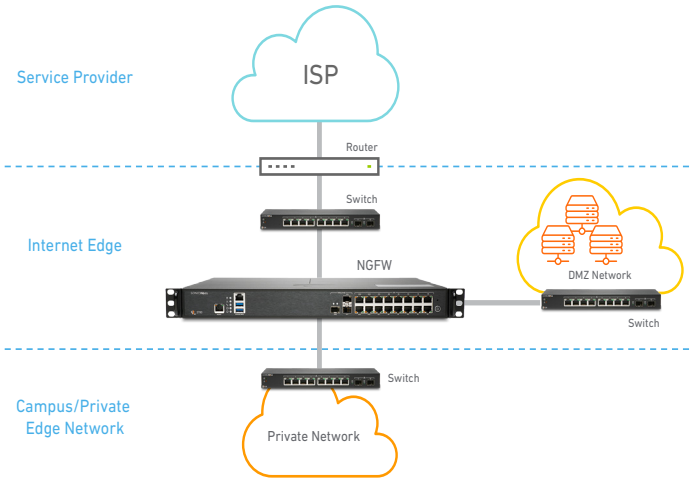
Deployments

The Gen 8 NS*a* Series has two main deployment options for medium and distributed enterprises:

Internet Edge Deployment

In this standard deployment option, the Gen 8 NSa Series NGFW protects private networks from malicious traffic coming from the internet, allowing you to:

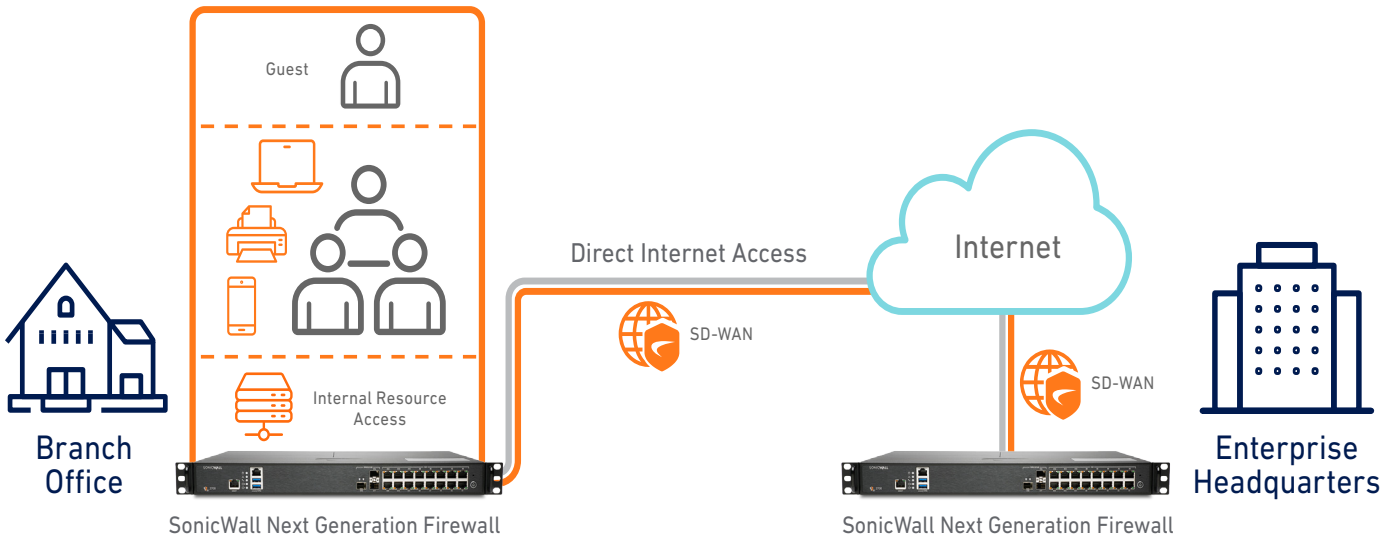
- Deploy a proven NGFW solution with highest performance in its class
- Gain visibility and inspect encrypted traffic, including TLS 1.3, to block evasive threats coming from the Internet — all without compromising performance
- Protect your enterprise with integrated security, including malware analysis, cloud app security, URL filtering and reputation services
- Save space and money with an integrated NGFW solution that includes advanced security and networking capabilities
- Reduce complexity and maximize efficiency using a central management system delivered through an intuitive single-paneof-glass user interface



Medium and Distributed Enterprises

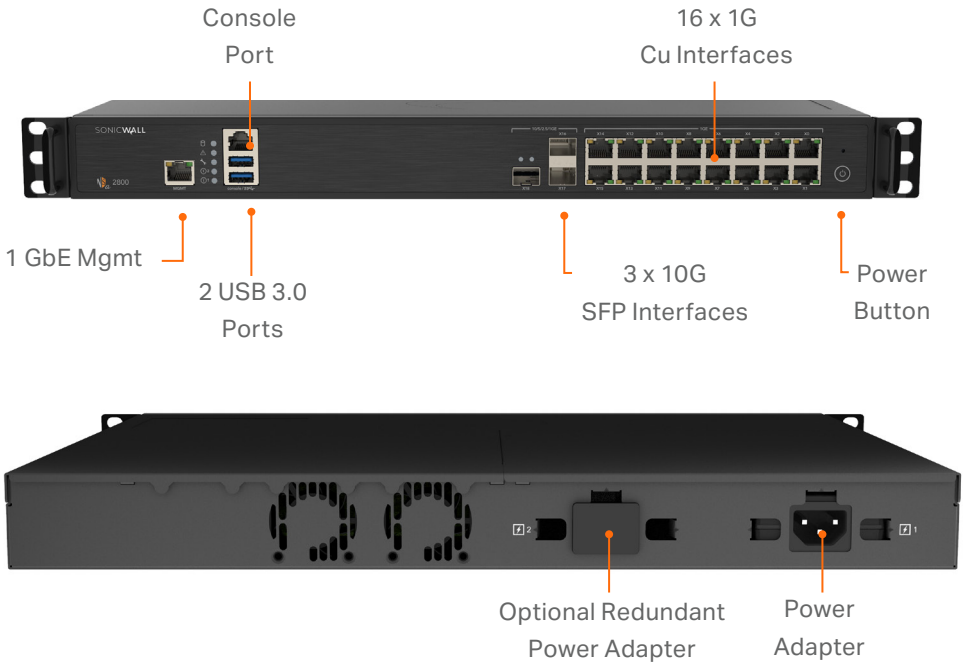
The SonicWall Gen 8 NSa Series supports SD-WAN and can be centrally managed, making it an ideal fit for medium and distributed enterprises. This deployment allows organizations to:

- Future-proof against an ever-changing threat landscape by investing in a NGFW with multi-gigabit threat analysis performance
- Provide direct and secure internet access to distributed branch offices instead of back-hauling through corporate headquarters
- Allow distributed branch offices to securely access internal resources in corporate headquarters or in a public cloud, significantly improving application latency
- Automatically block threats that use encrypted protocols such as TLS 1.3, securing networks from the most advanced attacks.
- Reduce complexity and maximize efficiency using a central management system delivered through an intuitive single pane of glass user interface
- Leverage high port density that includes 40 GbE and 10 GbE connectivity to support a distributed enterprise and wide area networks

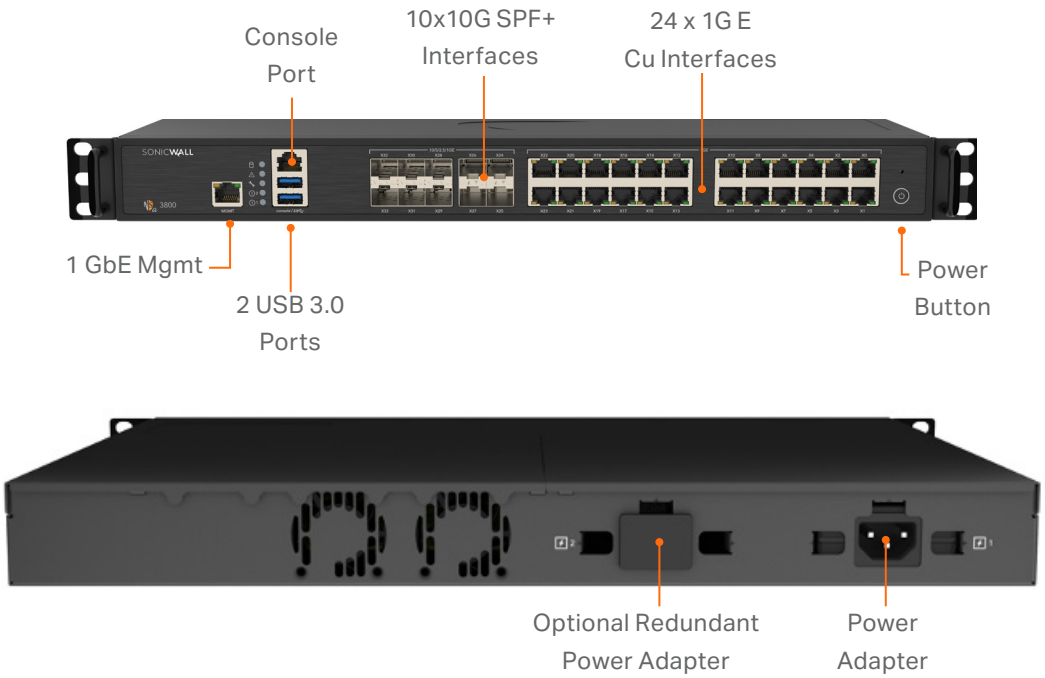


SonicWall Gen 8 NS*a* Series

NS*a* 2800



NS*a* 3800



Gen 8 NS*a* Series System Specifications

Firewall	NS*a* 2800	NS*a* 3800
Operating system	SonicOS 8	
Interfaces	16x1GbE, 3x10G SFP+, 2 USB 3.0, 1 Console, 1 Mgmt. port	24x1GbE, 10x10G SFP+, 2 USB 3.0, 1 Console, 1 Mgmt. port
Storage	128 GB M.2	256GB M.2
Storage Expansion slot	Storage Expansion Slot (Up to 512 GB)	Storage Expansion Slot (Up to 512 GB)
Centralized Management	Network Security Manager (NSM) 3.0 and above, CLI, SSH, Web UI, REST APIs	
Logical VLAN and tunnel interfaces (maximum)	256	256
SAML Single Sign-On Users[1]	40,000	40,000
Access points supported (maximum)	512	512
Firewall/VPN Performance		
Firewall inspection throughput[2]	8 Gbps	12 Gbps
Threat Prevention throughput[3]	6 Gbps	8 Gbps
Application inspection throughput[3]	7 Gbps	9 Gbps
IPS throughput[2]	7 Gbps	8 Gbps
Anti-malware inspection throughput[3]	6 Gbps	8 Gbps
TLS/SSL inspection and decryption throughput[3]	1.8 Gbps	3 Gbps
IPSec VPN throughput[4]	5.5 Gbps	8 Gbps
Connections per second	50,000	90,000
Maximum Connections (SPI)	2,000,000	3,000,000
Maximum connections (DPI)	1,000,000	1,200,000
Maximum connections (TLS)	150,000	300,000
VPN and ZTNA		
Site-to-site VPN tunnels	2,000	3,000
IPSec VPN clients (max)	50 (1000)	50 (1000)
SSL VPN licenses (max)	2 (500)	2 (500)
Encryption/Authentication	DES, 3DES, AES (128, 192, 256-bit)/MD5, SHA-1, Suite B Cryptography	
Key exchange	Diffie Hellman Groups 1, 2, 5, 14v	
Route-based VPN	RIP, OSPF, BGP	
Certificate support	Verisign, Thawte, Cybertrust, RSA Keon, Entrust and Microsoft CA for SonicWall-to-SonicWall VPN, SCEP	
VPN features	Dead Peer Detection, DHCP Over VPN, IPSec NAT Traversal, Redundant VPN Gateway, Route-based VPN	
Global VPN client platforms supported	Microsoft® Windows 10 and Windows 11	
NetExtender	Microsoft® Windows 10 and Windows 11, Linux	
Mobile Connect	Apple® iOS, Mac OS X, Google® Android™	
SonicWall Private Access powered by Cloud Secure Edge[5]	Included in 3&Free Loyalty Program	
Security services		
Deep Packet Inspection services	Gateway Anti-Virus, Anti-Spyware, Intrusion Prevention, TLS Decryption	
Content Filtering Service (CFS)	Reputation-based URL filtering, HTTP URL, HTTPS IP, keyword and content scanning, Comprehensive filtering based on file types such as ActiveX, Java, Cookies for privacy, allow/forbid lists	

Gen 8 NS*a* Series System Specifications

Firewall	NS*a* 2800	NS*a* 3800
Comprehensive Anti-Spam Service	Yes	Yes
Application Visualization	Yes	Yes
Application Control	Yes	Yes
Capture Advanced Threat Protection	Yes	Yes
DNS Filtering	Yes	Yes
Networking		
IP address assignment	Static (DHCP, PPPoE, L2TP and PPTP client), Internal DHCP server, DHCP relay	
NAT modes	1:1, 1:many, many:1, many:many, flexible NAT (overlapping IPs), PAT, transparent mode	
Routing protocols	BGP, OSPF, RIPv1/v2, static routes, policy-based routing	
QoS	Bandwidth priority, max bandwidth, guaranteed bandwidth, DSCP marking, 802.1e (WMM)	
Authentication	LDAP (multiple domains), XAUTH/RADIUS, TACACS+, SAML SSO[1], Radius accounting NTLM, internal user database, 2FA, Terminal Services, Citrix, Common Access Card (CAC)	
Local user database	1000	1000
VoIP	Full H323-v1-5, SIP	
Standards	TCP/IP, UDP, ICMP, HTTP, HTTPS, IPSec, ISAKMP/IKE, SNMP, DHCP, PPPoE, L2TP, PPTP, RADIUS, IEEE 802.3	
Certifications	Pending: IPv6	
High availability	Active/Passive with stateful synchronization	
Hardware		
Form factor	1U Rack Mountable	
Power supply	90W	150W
Maximum power consumption (W)	52.8	102.3W
Input Power	100-240 VAC, 50-60 Hz, 4A	100-240 VAC, 50-60 Hz, 12.5 A
Total heat dissipation (BTU)	180.01	341
Dimensions (Unit: cm)	43 x 32.5 x 4.5 Shipping: 57.5 x 47.5 x 18.5	43 x 32.5 x 4.5 57.5 x 47.5 x 18.5
Weight	4.6	4.6
WEEE weight	4.8	4.8
Shipping weight	7.2	7.2
Environment (Operating/Storage)	0°C to +40° C / -40°C to +70° C	
Humidity	5-95% non-condensing	5-95% non-condensing
Regulatory		
Major regulatory compliance	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[6], BSMI	
Regulatory model numbers	1RK56-11C	1RK57-122

[1] SAML Single Sign-On is available on the upcoming SonicOS 8.1, releasing soon.

[2] Testing Methodologies: Maximum performance based on RFC 2544 (for firewall). Actual performance may vary depending on network conditions and activated services.

[3] Threat Prevention/GatewayAV/Anti-Spyware/IPS throughput measured using industry standard Keysight HTTP performance test tools. Testing done with multiple flows through multiple port pairs. Threat Prevention throughput measured with Gateway AV, Anti-Spyware, IPS and Application Control enabled.

[4] VPN throughput measured with UDP traffic using 1418 byte packet size AESGMAC16-256 Encryption adhering to RFC 2544. All specifications, features and availability are subject to change.

[5] Included with 3-year bundle

[6] Available at a later stage

SonicOS 8.0 Feature Summary

Firewall

- Stateful packet inspection
- Reassembly-Free Deep Packet Inspection
- DDoS attack protection (UDP/ICMP/SYN flood)
- IPv4/IPv6 support
- Biometric authentication for remote access
- DNS proxy
- Full API support
- SonicWall Switch integration
- SonicWall Wi-Fi 6 AP integration
- SD-WAN scalability
- SD-WAN Usability Wizard[1]
- Connections scalability (SPI, DPI, TLS)
- Enhanced dashboard[1]
- Enhanced device view
- Top traffic and user summary
- Insights to threats
- Notification center

TLS/SSL/SSH decryption and inspection

- TLS 1.3 with enhanced security[1]
- Deep packet inspection for TLS/SSL/SSH
- Inclusion/exclusion of objects, groups or hostnames
- SSL control
- Enhancements for TLS with CFS
- Granular DPI SSL controls per zone or rule
- Capture advanced threat protection[2]
- Real-Time Deep Memory Inspection
- Cloud-based multi-engine analysis[2]
- Virtualized sandboxing
- Hypervisor level analysis
- Full system emulation
- Broad file type examination
- Automated and manual submission
- Real-time threat intelligence updates[2]
- Block until verdict
- Capture Client[2]

Intrusion prevention[2]

- Signature-based scanning
- Network access control integration with Aruba ClearPass
- Automatic signature updates
- Bi-directional inspection
- Granular IPS rule capability
- GeoIP enforcement
- Botnet filtering with dynamic list
- Regular expression matching

Anti-malware[2]

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

Application identification[2]

- Application control
- Application bandwidth management
- Custom application signature creation
- Data leakage prevention
- Application reporting over NetFlow/IPFIX
- Comprehensive application signature database

Traffic visualization and analytics

- User activity
- Application/bandwidth/threat usage
- Cloud-based analytics

Web content filtering[2]

- URL filtering
- Proxy avoidance
- Keyword blocking
- Reputation-based Content Filtering Service (CFS 5.0)
- DNS filtering
- Policy-based filtering (exclusion/inclusion)
- HTTP header insertion
- Bandwidth manage CFS rating categories
- Unified policy model with app control
- Content Filtering Client

VPN & ZTNA

- Secure SD-WAN
- Auto-provision VPN
- IPSec VPN for site-to-site connectivity
- SSL VPN and IPSec client remote access
- Redundant VPN gateway
- Mobile Connect for iOS, Mac OS X, Windows, and Android
- Route-based VPN (OSPF, RIP, BGP)
- Secure Private Access by Cloud Secure Edge

Networking

- PortShield
- Jumbo frames
- Path MTU discovery
- Enhanced logging
- VLAN trunking
- Port mirroring (SonicWall Switch)
- Layer-2 QoS
- Port security
- Dynamic routing (RIP/OSPF/BGP)
- SonicWall wireless controller
- Policy-based routing (ToS/metric and ECMP)
- NAT
- DHCP server
- Bandwidth management
- A/P high availability with state sync
- Inbound/outbound load balancing
- High availability - Active/Standby with state sync
- L2 bridge, wire/virtual wire mode, tap mode, NAT mode
- Asymmetric routing
- Common Access Card (CAC) support

VoIP

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

Management, monitoring and support

- Capture Security Appliance (CSa) support
- Capture Threat Assessment (CTA) v2.0
- New design or template
- Industry and global average comparison
- New UI/UX, Intuitive feature layout[1]
- Dashboard
- Device information, application, threats
- Topology view
- Simplified policy creation and management
- Policy/Objects usage statistics[1]
- Used vs Un-used
- Active vs Inactive
- Global search for static data
- Storage support[1]

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SonicOS 8.0 Feature Summary cont'd

Management, monitoring and support cont'd

- Internal and external storage management[1]
- WWAN USB card support (5G/LTE/4G/3G)
- Network Security Manager (NSM) support
- SonicPlatform and SonicBot Support
- Web GUI
- Command line interface (CLI)
- Zero-Touch registration & provisioning
- CSC Simple Reporting[1]
- SonicExpress mobile app support
- SNMPv2/v3
- API for reporting and analytics
- Logging
- Netflow/IPFix exporting
- Cloud-based configuration backup
- BlueCoat security analytics platform
- Application and bandwidth visualization
- IPv4 and IPv6 management
- CD management screen
- Dell N-Series and X-Series switch management including cascaded switches

Debugging and diagnostics

- Enhanced packet monitoring
- SSH terminal on UI

Wireless

- SonicWave AP cloud and firewall management
- WIDS/WIPS
- Rogue AP prevention
- Fast roaming (802.11k/r/v)
- 802.11s mesh networking
- Auto-channel selection
- RF spectrum analysis
- Floor plan view
- Topology view
- Band steering
- Beamforming
- AirTime fairness
- Bluetooth Low Energy
- MiFi extender
- RF enhancements and improvements
- Guest cyclic quota

[1] New feature, available on SonicOS 7.0
[2] Requires added subscription

Learn more about SonicWall Gen 8 NS*a* Series

www.sonicwall.com/products/firewalls

About SonicWall

SonicWall is a cybersecurity forerunner with more than 30 years of expertise and a relentless focus on its partners. With the ability to build, scale and manage security across the cloud, hybrid and traditional environments in real time, SonicWall can quickly and economically provide purpose-built security solutions to any organization around the world. Based on data from its own threat research center, SonicWall delivers seamless protection against the most evasive cyberattacks and supplies actionable threat intelligence to partners, customers and the cybersecurity community.

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