SonicWall TZ Series

Exceptional security and stellar performance at an incredibly low total cost of ownership

SonicWall Unified Threat Management (UTM) firewalls are ideal for any organization that needs enterprise-class network protection.

SonicWall TZ series firewalls offer comprehensive protection through advanced security services including integrated and cloud-based antimalware, antispyware, application control, IPS (Intrusion Prevention System), and URL filtering capabilities. In order to counter the trend of encrypted attacks, the processing power of the TZ series firewalls allows them to inspect encrypted SSL / TLS connections to deal with the latest threats. In combination with Dell X series switches, some TZ series firewalls can directly manage the security of these additional ports.

Powered by the SonicWall Capture Threat Network, the SonicWall TZ series provides continuous updates to maintain a robust network defense against cybercriminals. The SonicWall TZ series is capable of analyzing every byte of every packet on all ports and protocols with almost no latency and no limitations on file size.

The SonicWall TZ series includes Gigabit Ethernet ports, connectivity
optional integrated 802.11ac wireless, * IPSec and SSL VPN, reconnection via integrated 3G / 4G support, balance load and network segmentation. The SonicWall TZ series UTM firewalls also provide fast and secure mobile access using Apple iOS, Google Android, Amazon Kindle, Windows, Mac OS X, and Linux platforms.

The SonicWall Global Management System (GMS) enables you to centrally deploy and manage SonicWall TZ Series firewalls from a single system.

Managed security services for distributed environments

Schools,
Retail establishments, remote sites, branch offices, and distributed enterprises need a solution that integrates with their corporate firewall. SonicWall TZ series firewalls share the same code base

- and the same protection - as our flagship SuperMassive next-generation firewalls, simplifying remote site management since all administrators see the same user interface. With GMS, network administrators can configure, monitor and manage SonicWall firewalls remotely from a single console. By incorporating high-speed and secure wireless connectivity, the SonicWall TZ series products extend the perimeter of protection to encompass customers and guest users who frequent a particular retail location or remote office.

Advantage:

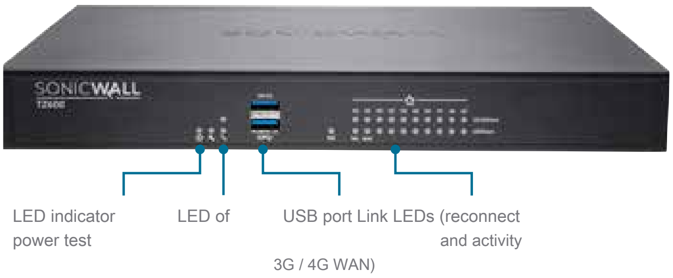
- Enterprise-class network protection
- Deep packet inspection of all traffic with no protocol or file size restrictions
- Secure wireless connectivity 802.11ac via integrated wireless controller or via external SonicWall SonicPoint wireless access points
- Mobile SSL VPN access for Apple iOS, Google Android, Amazon Kindle, Windows, Mac OS and Linux devices
- Implemented in combination with Dell X-series switches, TZ firewalls allow you to securely manage more than 100 additional ports through your console.

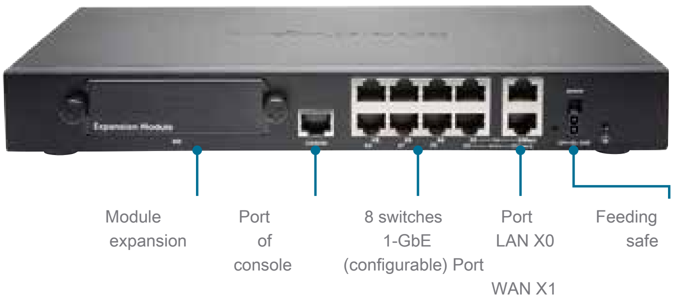
** 802.11ac is not currently available on SOHO models; SOHO models support 802.11a / b / g / n*

SonicWall TZ600 Series

For startups, retailers, and branch offices looking for value for money security performance, the SonicWall TZ600 Next-Generation Firewall protects networks with enterprise-class features and uncompromising performance.

specs	TZ600 Series
Firewall performance	1.5 Gbps
Full DPI performance Anti-malware	500 Mbps
performance	500 Mbps
IPS performance	1.1 Gbps
IMIX performance	900 Mbps
Maximum DPI connections	125,000
New connections / s	12,000

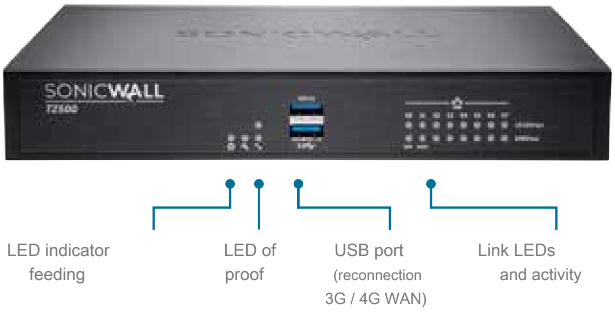


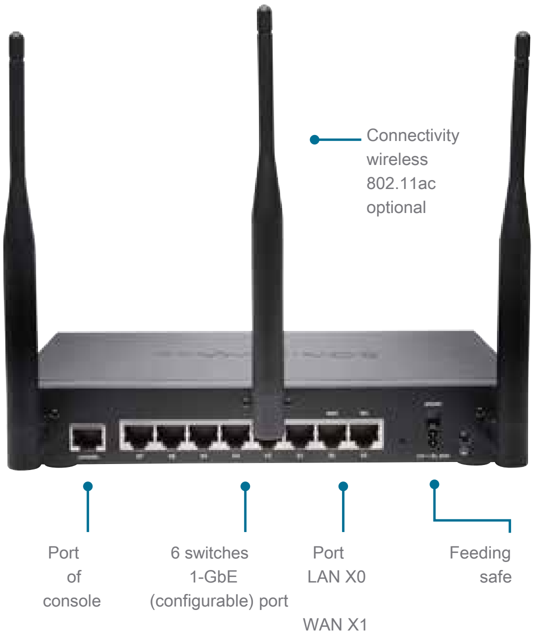


SonicWall TZ500 Series

For growing SMBs and branch offices, the SonicWall TZ500 series provides highly effective protection without compromise with network productivity and an optional integrated dual-band 802.11ac wireless connection.

specs	TZ500 Series
Firewall performance	1.4 Gbps
Full DPI performance Anti-malware	400 Mbps
performance	400 Mbps
IPS performance	1.0 Gbps
IMIX performance	700 Mbps
Maximum DPI connections	100,000
New connections / s	8,000

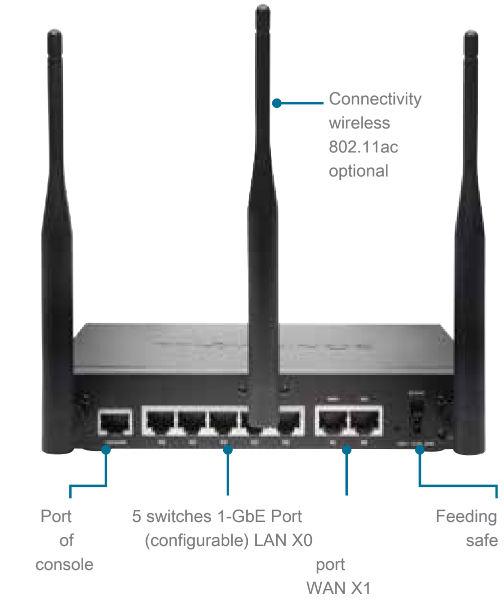


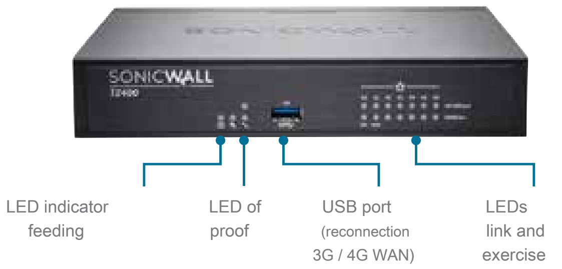


SonicWall TZ400 Series

The SonicWall TZ400 series provides enterprise-class protection for small businesses, retail and branch offices. Flexible wireless deployment available with optional dual-band 802.11ac wireless connectivity built into the firewall.

specs	TZ400 Series
Firewall performance	1.3 Gbps
Full DPI performance Anti-malware	300 Mbps
performance	300 Mbps
IPS performance	900 Mbps
IMIX performance	500 Mbps
Maximum DPI connections	90,000
New connections / s	6,000

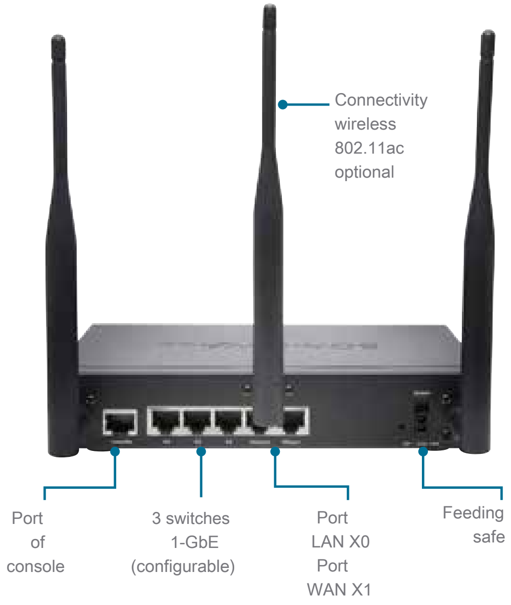

Connectivity wireless 802.11ac optional
Port of console
5 switches 1-GbE Port (configurable) LAN X0
port WAN X1
Feeding safe

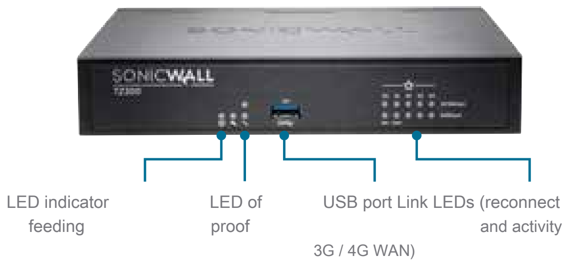


SonicWall TZ300 Series

The SonicWall TZ300 series provides a comprehensive solution that protects networks against attacks. Unlike consumer products, the SonicWall TZ300 Series Firewall combines powerful intrusion prevention, antimalware, and content / URL filtering capabilities with an optional built-in 802.11ac wireless connection and the broadest support for secure mobile platforms from laptops, smartphones and tablets.

specs	TZ300 Series
Firewall performance	750 Mbps
Full DPI performance Anti-malware	100 Mbps
performance	100 Mbps
IPS performance	300 Mbps
IMIX performance	200 Mbps
Maximum DPI connections	50,000
New connections / s	5,000

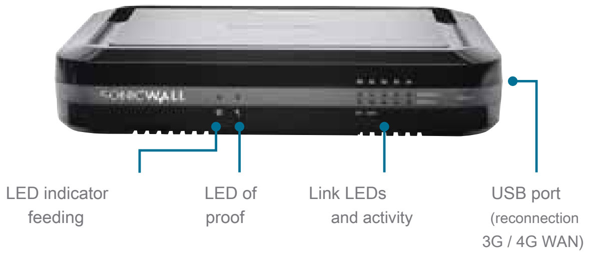

Connectivity wireless 802.11ac optional
Port of console
3 switches 1-GbE (configurable)
Port LAN X0 Port WAN X1
Feeding safe

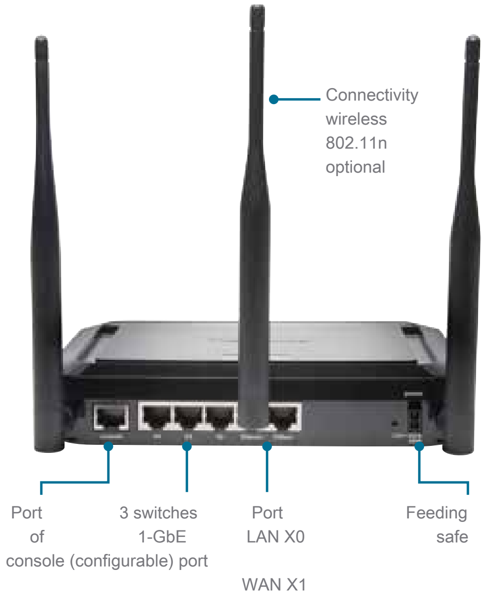


SonicWall SOHO Series

For small office or home office wired and wireless environments, the SonicWall SOHO series provides the same enterprise-class protection that large enterprises require at a much more affordable price.

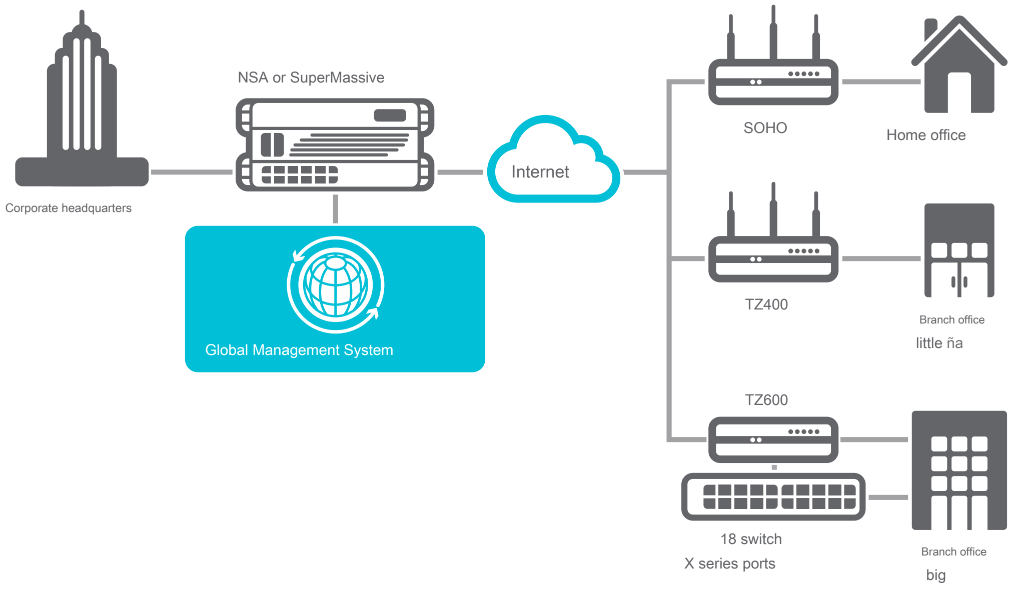
specs	SOHO series
Firewall performance	300 Mbps
Full DPI performance Anti-malware	50 Mbps
performance	50 Mbps
IPS performance	100 Mbps
IMIX performance	60 Mbps
Maximum DPI connections	10,000
New connections / s	1,800




Connectivity wireless 802.11n optional
Port of console (configurable) port
3 switches 1-GbE
Port LAN X0
WAN X1
Feeding safe

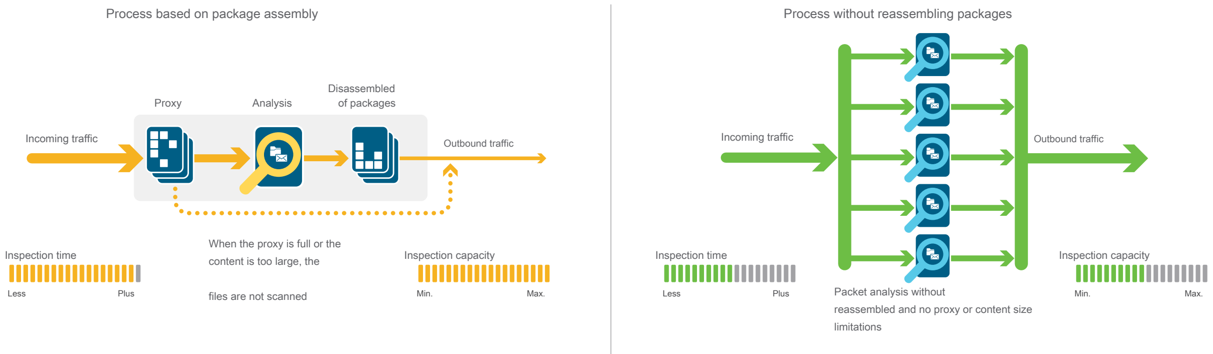
Scalable architecture for maximum performance and scalability

The Reassembly-Free Deep Packet Inspection (RFDPI) engine is designed from the ground up with the goal of providing high-performance security scanning to accommodate the parallel and growing nature of network traffic. When combined with multi-core processor systems, this parallel processing-centric software architecture seamlessly scales to meet the requirements of deep packet inspection with high traffic loads. The SonicWall TZ platform is based on processors that, unlike x86, are optimized for packet, encryption and network processing, while preserving flexibility and on-site programming, a weak point in ASIC systems. This flexibility is essential when new code and behavior updates are required to provide protection against new attacks that require updated and more sophisticated detection techniques.



Reassembly-Free Deep Packet Inspection (RFDPI) engine

The RFDPI engine offers exceptional threat protection and application control without sacrificing performance. This patented engine inspects traffic flow for threats at levels 3-7. The RFDPI engine subjects network flows to extensive and repeated normalization and decryption processes to neutralize advanced evasion techniques that seek to circumvent threats. detection engines and introduce malicious code into the net. After the necessary preprocessing is applied to a packet, including SSL decryption, it is parsed against a single proprietary in-memory representation of three definition databases: intrusion, malware and application attacks. The connection state is then updated to represent the position of the flow relative to those databases until an attack state or other event that is recognized as a threat is encountered. At that time, a predefined action takes place. When malware is identified, the SonicWall firewall terminates the connection earlier damage and properly record the event. However, the engine can also be configured for inspection only or, in the case of application discovery, to offer Layer 7 bandwidth management services for the rest of the application flow as soon as the application has been identified.

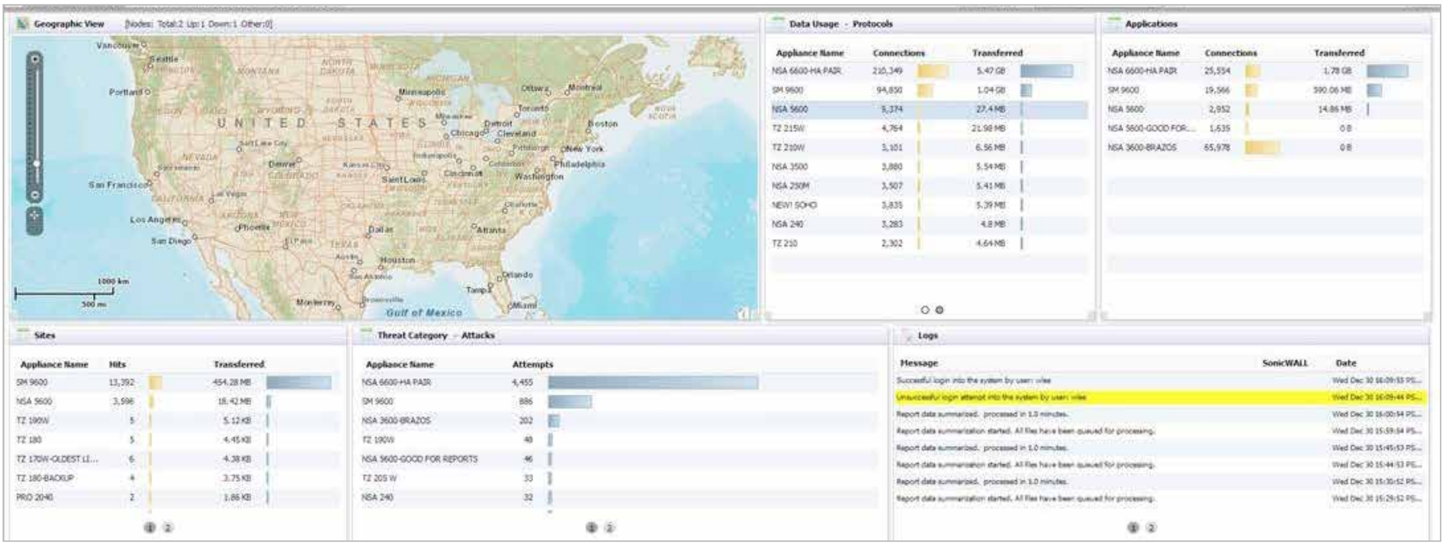

Process based on package assembly
Proxy
Analysis
Disassembled of packages
Incoming traffic
Outbound traffic
Inspection time
Less
Plus
When the proxy is full or the content is too large, the files are not scanned
Inspection capacity
Min.
Max.
Process without reassembling packages
Incoming traffic
Outbound traffic
Inspection time
Less
Plus
Packet analysis without reassembled and no proxy or content size limitations
Inspection capacity
Min.
Max.

Competitor architecture

SonicWall architecture

Global reporting and management

For larger deployments in distributed enterprises, the SonicWall Global Management System (GMS) provides administrators with a unified, secure, and extensible platform to manage SonicWall security appliances and Dell X-series switches. This system enables companies to easily consolidate the management of security devices, reduce administrative and troubleshooting complexities, and control all operational aspects of the security infrastructure, such as centralized policy management and enforcement, real-time event monitoring, analytics and reporting, and more. GMS also meets enterprise firewall change management requirements with a workflow automation capability. GMS provides a better way to manage network security using business processes and service levels that dramatically simplify lifecycle management of your overall security environments, rather than device-by-device.



Data Usage - Protocols

Appliance Name	Connections	Transferred
NSA 6600-HA PAIR	210,349	5.47 GB
SM 9600	94,850	1.04 GB
NSA 5600	5,374	27.4 MB
TZ 215W	4,764	21.98 MB
TZ 210W	3,101	6.56 MB
NSA 3500	3,880	5.54 MB
NSA 250M	3,507	5.41 MB
NEW! SOHO	3,835	5.39 MB
NSA 240	3,283	4.8 MB
TZ 210	2,302	4.64 MB

Applications

Appliance Name	Connections	Transferred
NSA 6600-HA PAIR	25,554	1.78 GB
SM 9600	19,566	390.06 MB
NSA 5600	2,952	14.86 MB
NSA 5600-GOOD FOR...	1,635	0 B
NSA 3600-BRAZOS	65,978	0 B

Sites

Appliance Name	Hits	Transferred
SM 9600	13,392	454.28 MB
NSA 5600	3,596	18.42 MB
TZ 190W	5	5.12 KB
TZ 180	5	4.45 KB
TZ 170W-OLDEST LI...	6	4.38 KB
TZ 180-BACKUP	4	3.75 KB
PRO 2040	2	1.86 KB

Threat Category - Attacks

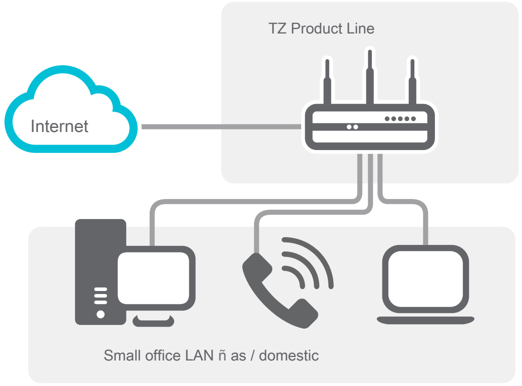
Appliance Name	Attempts
NSA 6600-HA PAIR	4,455
SM 9600	886
NSA 3600-BRAZOS	202
TZ 190W	48
NSA 5600-GOOD FOR REPORTS	46
TZ 205 W	33
NSA 240	32

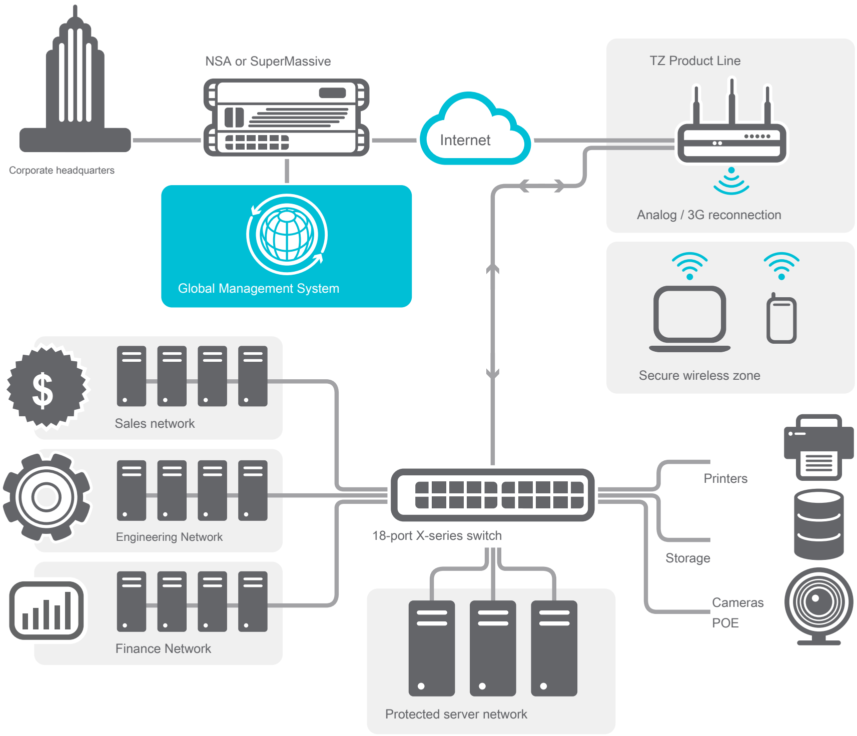
Logs

Message	SonicWALL	Date
Successful login into the system by user: wlee		Wed Dec 30 16:09:55 PS...
Unsuccessful login attempt into the system by user: wlee		Wed Dec 30 16:09:44 PS...
Report data summarized. processed in 1.0 minutes.		Wed Dec 30 16:00:54 PS...
Report data summarization started. All files have been queued for processing.		Wed Dec 30 15:59:54 PS...
Report data summarized. processed in 1.0 minutes.		Wed Dec 30 15:45:53 PS...
Report data summarization started. All files have been queued for processing.		Wed Dec 30 15:44:53 PS...
Report data summarized. processed in 1.0 minutes.		Wed Dec 30 15:30:52 PS...
Report data summarization started. All files have been queued for processing.		Wed Dec 30 15:29:52 PS...

Protection and security

SonicWall Capture Labs' dedicated internal threat research team studies and develops countermeasures to apply to on-premises firewalls for up-to-date protection. With the help of more than a million sensors distributed around the world, they obtain malware samples and telemetric information on the latest threats, which in turn is transmitted to firewalls to support intrusion prevention, antimalware and detection functions. Applications. SonicWall firewall customers with current subscriptions enjoy continually updated threat protection 24/7. Plus, those updates are applied immediately without the need for reboots or interruptions. The definitions available on the devices protect against a wide range of attacks. In fact, each of them covers tens of thousands of individual threats. In addition to countermeasures





Available on the appliance, all SonicWall firewalls have access to SonicWall CloudAV, which expands the definition data built in with more than 20 million definitions, an ever-growing number. The firewall accesses the CloudAV database using a proprietary lightweight protocol in order to enforce the inspection performed on the device. With botnet and IP filtering capabilities based on geographic data, SonicWall next generation firewalls can block traffic from rogue domains or entire geographic regions to reduce the risk profile for the network.

Application intelligence and control

Application intelligence informs administrators of the application traffic traversing the network so that they can program application controls based on the

business priorities, restrict unproductive applications, and block potentially dangerous ones. Real-time visualization identifies traffic anomalies as they occur, allowing immediate countermeasures against

possible inbound or outbound attacks or performance bottlenecks. SonicWall application traffic analytics provide detailed information on application traffic, bandwidth usage, and security threats, as well as powerful troubleshooting and forensic analysis capabilities. Additionally, secure single sign-on (SSO) improves the user experience, increases productivity, and reduces help desk calls. Using an intuitive web-based interface simplifies application intelligence and control management.

Flexible and secure wireless connection

Available as an optional feature, high-speed 802.11ac wireless connectivity is combined with SonicWall's next-generation firewall technology to create a wireless network security solution that provides comprehensive protection for both wired and wireless networks.

With this enterprise-grade wireless performance, Wi-Fi ready devices can

connect farther away and use bandwidth-hungry mobile applications, such as voice and video, in higher density environments without reducing signal quality.

** 802.11ac is not currently available on SOHO models; SOHO models support 802.11a / b / g / n*

Benefits

RFDPI engine	
Benefit	Description
Deep packet inspection without reassembly	This proprietary, high-performance inspection engine performs two-way flow-based traffic analysis, without proxy or buffering, to discover intrusion attempts and malware and identify application traffic regardless of port.
Bidirectional inspection	It scans incoming and outgoing traffic simultaneously for threats to prevent the network from being used for malware distribution or becoming a launching pad for attacks should an infected computer enter.
Single pass inspection	The single-pass DPI architecture simultaneously scans traffic for malware and intrusion detection and for application identification, dramatically reducing DPI latency and ensuring that all threat information is correlated in a single architecture.
Flow-based inspection	Bufferless, proxy-free inspection technology provides very low-latency performance for deep packet inspection of simultaneous network streams without introducing limitations on stream and file size. Also, it can be applied to common protocols as well as raw TCP streams.
Secure Socket Shell Deep Packet Inspection (DPI-SSH)	Detects and prevents advanced encrypted attacks using SSH, blocks encrypted malware downloads, stops the spread of infections, and thwarts command-and-control communications and data exfiltration.
Capture Advanced Threat Protection	
Benefit	Description
Multi-engine sandboxing	The multi-engine sandbox platform, including virtualized sandboxing, full system emulation, and hypervisor-level analytics technology, executes suspicious code and analyzes its behavior, providing complete visibility into malicious activity.
Scan a wide variety of file types	Supports scanning of a wide variety of file types, such as executable programs (PE), DLLs, PDFs, MS Office documents, archives, JARs, and APKs, as well as multiple operating systems, such as Windows, Android, Mac OS X, and multi-browser environments .
Quick definition implementation	When a malicious file is detected, a definition is immediately made available to the SonicWall Capture subscription firewalls and sent to the Gateway Anti-Virus and IPS definition databases and URL, IP reputation databases and domains within 48 hours.
Lock until there is a verdict	To prevent potentially dangerous files from accessing the network, files sent to the cloud for analysis can be held at the gateway until a verdict is rendered.
Encrypted Threat Prevention	
Benefit	Description
Decryption and TLS / SSL inspection	Decrypt and inspect SSL traffic on the fly, without the need for proxies, for malware, intrusions, and data leaks, and enforce application, URL, and content control policies to protect against threats hidden in TLS-encrypted traffic / SSL. Included with security subscriptions for all models except SOHO. For SOHO models, it is sold as a separate license.
SSH inspection	SSH Deep Packet Inspection (DPI-SSH) decrypts and inspects the data passing through SSH tunnels to prevent attacks using SSH.
Intrusion prevention	
Benefit	Description
Protection based on countermeasures	The tightly integrated Intrusion Prevention System (IPS) uses definitions and other countermeasures to scan useful packet data for vulnerabilities and exploits, thus covering a wide range of attacks and vulnerabilities.
Automatic updates of definitions	The SonicWall Capture Labs Threat Research team investigates and implements IPS countermeasures, continually updating a long list covering more than 50 attack categories. New updates take effect on the spot, without requiring a reboot or interrupting your service.
IPS protection between zones	It strengthens internal security by segmenting the network into multiple security zones with intrusion prevention to prevent the spread of threats from one zone to another.
Detection and blocking of command and control (CnC) activities from botnet attacks	Identifies and blocks command and control traffic originating from bots on the local network and directed to IPs and domains identified as malware propagators or known as CnC points.
Protocol abuse / anomaly	Identify and block attacks that abuse protocols to try to bypass the IPS.
Zero day protection	Protect your network from zero-day attacks with constant updates against the latest exploit methods and techniques, covering thousands of individual exploits.
Anti-evasion technology	Extensive flow normalization, decoding, and other techniques prevent threats from penetrating the network undetected using evasion techniques at Layers 2-7.
Threat prevention	
Benefit	Description
Gateway antimalware	RFDPI engine scans all inbound, outbound, and intra-zone traffic for viruses, Trojans, keyloggers, and other malware in files of unlimited length and size on all TCP ports and streams .
CloudAV antimalware protection	SonicWall cloud servers have a database of more than 20 million threat definitions that is continually updated and used to augment the capabilities of the integrated definition database, providing RFDPI technology with an broad threat coverage.
24 hour security updates	New threat updates are automatically transferred to firewalls with active security services, where they are immediately effective without the need to restart the system or interrupt the service.

Threat Prevention (cont.)

Benefit	Description
Decryption and SSL inspection	Decrypt and inspect SSL traffic on the fly without the need for a proxy for malware, intrusions, and data leaks. In addition, it enforces application, URL and content control policies to provide protection against threats hidden in SSL-encrypted traffic. This feature is included with security subscriptions for all models except SOHO. For SOHO models, it is sold as a separate license.
Bidirectional TCP Inspection (Raw)	The RFDPI engine can analyze raw TCP streams on any port and in both directions, preventing attacks that try to infiltrate outdated security systems that focus on protecting only a few more popular ports.
Broad protocol support	Identifies common protocols, such as HTTP / S, FTP, SMTP, SMBv1 / v2 and other types, that do not send data in raw TCP, and decodes payloads for malware inspection, even if they are not running on standard and well-known ports .

Application intelligence and control

Benefit	Description
App control	Control applications, or individual application functions, identified by the RFDPI engine by matching against a growing database of more than 3,500 application definitions, with the goal of increasing network security and productivity.
Custom application identification	Control custom applications by creating definitions based on specific parameters or patterns unique to an application in your network communications for greater control of your network.
Application bandwidth management	Fine-tune and regulate available bandwidth for critical applications or categories of applications, while limiting non-essential application traffic.
Granular control	Control applications (or specific components of an application) based on schedules, user groups, exclusion lists, and a range of actions with complete user identification via SSO through LDAP / AD / Terminal Services / Citrix integration.

Content filtering

Benefit	Description
Filtering content in and out	Enforce acceptable use policies and block access to websites that contain unacceptable or unproductive information or images with Content Filtering Service. Extend your policy enforcement to block Internet content on devices 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, for example during work or school hours, and applied to individual users or groups.
YouTube for educational centers	Let teachers choose from hundreds of thousands of free YouTube EDU educational videos, organized by subject and course, and tailored to common educational standards.
Web caching	URL classifications are cached in the SonicWall firewall, reducing the response time for subsequent access to frequently visited sites to just a fraction of a second.

Enforced Anti-Virus and Anti-Spyware

Benefit	Description
Protection at various levels	Use firewall features, such as the first layer of defense at the perimeter, along with endpoint protection, to block viruses that penetrate your network through laptops, flash drives, and other unprotected systems.
Automated application option	Make sure that all computers accessing the network have the latest version of the antivirus and antispyware definitions installed and activated. This eliminates the costs typically associated with managing antivirus and antispyware solutions for desktops.
Automated installation and deployment option	Machine-to-machine deployment and installation of antivirus and antispyware clients occurs automatically across the network, minimizing administrative overhead.
Uninterrupted, automatic virus protection	Frequent antivirus and antispyware updates are delivered transparently to all desktops and file servers to improve end-user productivity and reduce security management tasks.
Antispyware protection	The powerful spyware protection feature scans and blocks the installation of a full suite of spyware programs on desktops and laptops before they transmit sensitive data, helping to increase the security and performance of desktops.

Firewall and interconnection

Benefit	Description
Dynamic packet inspection Protection against	All network traffic is inspected, analyzed, and subject to firewall access policies.
DDoS / DOS attacks	SYN flood protection provides a defense against DOS attacks by using level 3 (SYN proxy) and level 2 (SYN) blacklisting technologies. It also offers protection against DOS / DDoS attacks through UDP / ICMP flood protection and connection rate limiting functions.
Flexible deployment options	SonicWall TZ series products can be implemented in traditional NAT mode and in Layer 2 Bridge, Wire Mode, and Network Tap modes.
Support for IPv6	Internet Protocol Version 6 (IPv6) is in the early stages of replacing IPv4. With the latest SonicOS operating system, the hardware will support filtering implementations.
Biometric authentication for remote access	It supports mobile device authentication, such as fingerprint recognition, which cannot be easily duplicated or shared, in order to securely authenticate the identity of the user so that they can access the network.
Integration of Dell X Series Switches	Management of additional ports security settings, including POE and POE +, from a single console using a TZ series dashboard with an X series switch (not available with SOHO model)

Firewall and Interconnect (cont.)	
Benefit	Description
High availability	The SonicWall TZ500 and SonicWall TZ600 models offer support for active / standby high availability configurations with state synchronization. The SonicWall TZ300 and SonicWall TZ400 models support high availability configurations without active / standby synchronization. SonicWall SOHO models do not have high availability.
Threat API	Allows the firewall to receive any proprietary intelligence information from original equipment manufacturers or third-party to combat advanced threats such as zero-day attacks, malicious internal users, compromised credentials, ransomware, and advanced persistent threats.
Wireless network security	IEEE 802.11ac wireless technology is capable of delivering up to 1.3 Gb / s of wireless performance with increased range and reliability. Available on SonicWall models from the TZ300 series to the TZ600. 802.11 a / b / g / n connectivity is available as an option on SonicWall SOHO models.

Management and reports	
Benefit	Description
Global management system	SonicWall GMS monitors and configures multiple Dell SonicWall devices and X-series switches and reports on them through a single management console with an intuitive interface to reduce management costs and complexity.
Powerful individual device management	An intuitive web-based interface enables quick and easy setup. In addition, it offers a comprehensive command-line interface and SNMPv2 / 3 support.
IPFIX / Netflow reports of application flows	Export application traffic analysis and usage data using IPFIX or NetFlow protocols to monitor and report in real time and old data with tools such as SonicWall GMSFlow Server or other compatible with IPFIX and NetFlow with extensions.

Virtual private networks	
Benefit	Description
VPN with automatic provisioning	Simplify and minimize the complexity of distributed firewall deployments by automating the initial provisioning of the end-to-end VPN gateway between SonicWall firewalls, while the security and connectivity systems work instantly and automatically.
IPSec VPN for inter-site connectivity	High-performance IPSec VPN enables the SonicWall TZ series to act as a VPN concentrator for thousands of other large sites, branch offices, or home offices.
Remote access via SSL VPN or IPSec client	It enables the use of clientless SSL VPN technology or an easy-to-manage IPSec client for easy access to e-mails, 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 automatic reconnection and recovery of all VPN sessions.
Routing-based VPN	Dynamic routing over VPN links ensures uninterrupted service in the event of failure temporary VPN tunnel, as traffic between endpoints can easily be re-routed through alternate routes.

Contextual / content recognition	
Benefit	Description
Tracking user activity	Thanks to the seamless integration of SSO functions with AD / LDAP / Citrix1 / Terminal Services, in combination with the extensive information provided by the DPI, it is possible to identify users and their activities.
GeoIP - Identification of traffic based on country	Identify and monitor network traffic to or from specified countries to provide protection against attacks from threats of known or suspected origin, or to investigate suspicious traffic originating from the network.
DPI filtering of regular expressions	Prevents data leakage by identifying and controlling content that traverses the network through regular expression matching.

SonicOS Capabilities Overview

Firewall

- Dynamic packet inspection
- Deep packet inspection without reassembly
- Protection against DDoS attacks (UDP / ICMP / SYN floods)
- Support for IPv4 / IPv6
- Biometric authentication for remote access
- DNS proxy
- Threat API

Decryption and SSL / SSH inspection[1]

- Deep Packet Inspection for TLS / SSL / SSH
- Include / exclude objects, groups, or host names
- SSL control

Capture Advanced Threat Protection[1]

- Cloud-based multi-engine analysis
- Virtualized sandboxing
- Hypervisor level analysis
- Full system emulation
- Analysis of a wide variety of file types
- Automated and manual shipping
- Real-time threat intelligence updates
- Self-locking function

Intrusion prevention[1]

- Analysis based on definitions
- Automatic updates of definitions
- Bidirectional inspection
- Capability for detailed IPS rules
- GeoIP / botnet filtering[2]
- Regular expression matching

Antimalware[1]

- Stream-based malware analysis
- Gateway Anti-Virus
- Gateway Anti-Spyware
- Bidirectional inspection
- Unlimited file size
- Malware database in the cloud

Application identification[1]

- App control
- Viewing applications[2]
- App Component Lock
- Application bandwidth management
- Create custom application definitions
- Data leak prevention
- Application reporting using NetFlow / IPFIX
- User Activity Tracking (SSO)
- Complete database of application definitions

Web content filtering[1]

- URL filtering
- Antiproxy technology
- Keyword blocking
- Bandwidth management according to CFS classification categories
- Unified Policy Model with Application Control
- Content Filtering Client

VPN

- VPN with automatic provisioning
- IPSec VPN for inter-site connectivity
- Remote access via SSL VPN and IPSec client
- Redundant VPN gateway
- Mobile Connect for iOS, Mac OS X, Windows, Chrome, Android and Kindle Fire
- Route-based VPN (OSPF, RIP, BGP)

Interconnection

- PortShield
- Improved protocolization
- Layer 2 QoS
- Port security
- Dynamic routing (RIP / OSPF / BGP)
- SonicWall Wireless Controller
- Policy-based routing (ToS / metric and ECMP)
- Asymmetric routing
- DHCP server
- NAT
- Bandwidth management
- High Availability - Active / Standby with State Synchronization[3]
- Inbound / outbound load balancing L2 bridge
- mode, NAT mode
- 3G / 4G WAN reconnection
- Common Access Card (CAC) support

Voip

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

Management and supervision

- Web GUI
- SNMPv2 / v3 Command Line Interface (CLI)
-
- Centralized management and reporting with SonicWall GMS
- Protocolization
- NetFlow / IPFIX exports
- Cloud-based configuration backup
- Viewing applications and bandwidth
- IPv4 and IPv6 management
- Management of Dell X series switches, including cascade switches

Integrated wireless connection

- Dual band (2.4 GHz and 5.0 GHz)
- 802.11 a / b / g / n / ac wireless standards[2]
- Wireless Intrusion Detection and Prevention
- Wireless services for guest users
- Lightweight messaging at endpoints
- Segmentation through virtual access points
- Captive portal
- ACL for cloud

[1] *Requires additional subscription*

[2] *Not available on SOHO series*

[3] *High Availability with State Synchronization is only available on the SonicWall TZ500 and SonicWall TZ600 models*

SonicWall TZ Series System Specifications

Hardware - Overview	SOHO series	TZ300 Series	TZ400 Series	TZ500 Series	TZ600
OS	SonicOS				
Security Processing Cores Interfaces	2	2	4	4	4
	5x1GbE, 1 USB, 1 Console	5x1GbE, 1 USB, 1 Console	7x1GbE, 1 USB, 1 Console	8x1GbE, 2 USB, 1 Console	10x1GbE, 2 USB, 1 Console, 1 slot expansion
Expansion	USB	USB	USB	2 USB	Expansion slot (rear), * 2 USB
Single sign-on (SSO) users VLAN interfaces	250	500	500	500	500
	25	25	fifty	fifty	fifty
Supported access points (maximum)	2	8	16	16	24
Supported Dell X-Series Switch Models	Not available	X1008 / P, X1018 / P, X1026 / P, X1052 / P, X4012			

Firewall / VPN performance	SOHO series	TZ300 Series	TZ400 Series	TZ500 Series	TZ600
Firewall inspection performance[1]	300 Mbps	750 Mbps	1,300 Mbps	1,400 Mbps	1,500 Mbps
Full DPI performance[2]	50 Mbps	100 Mbps	300 Mbps	400 Mbps	500 Mbps
Application inspection performance[2]	-	300 Mbps	900 Mbps	1,000 Mbps	1,100 Mbps
IPS performance[2]	100 Mbps	300 Mbps	900 Mbps	1,000 Mbps	1,100 Mbps
Anti-malware inspection performance[2]	50 Mbps	100 Mbps	300 Mbps	400 Mbps	500 Mbps
IMIX performance	60 Mbps	200 Mbps	500 Mbps	700 Mbps	900 Mbps
TLS / SSL decryption and inspection performance (DPI SSL)[2]	15 Mbps	45 Mbps	100 Mbps	150 Mbps	200 Mbps
IPSec VPN performance[3]	100 Mbps	300 Mbps	900 Mbps	1,000 Mbps	1,100 Mbps
Connections per second	1,800	5,000	6,000	8,000	12,000
Maximum Connections (SPI)	10,000	50,000	100,000	125,000	150,000
Maximum number of connections (DPI) Maximum	10,000	50,000	90,000	100,000	125,000
number of connections (DPI SSL)	100	500	500	750	750

VPN	SOHO series	TZ300 Series	TZ400 Series	TZ500 Series	TZ600
VPN tunnels between sites IPSec VPN	10	10	twenty	25	fifty
clients (maximum) SSL VPN licenses	fifteen)	1 (10)	2 (25)	2 (25)	2 (25)
(maximum) Virtual Assist included	1 (10)	1 (50)	2 (100)	2 (150)	2 (200)
(maximum) Encryption / authentication	-	1 (30-day trial)	1 (30-day trial)	1 (30-day trial)	1 (30-day trial)
	DES, 3DES, AES (128, 192, 256 bit), MD5, SHA-1, Crypto Suite B				
Key exchange	Diffie Hellman Groups 1, 2, 5, 14				
Routing-based VPN Certificate	RIP, OSPF				
Support	Verisign, Thawte, Cybertrust, RSA Keon, Entrust, and Microsoft CA for VPN SonicWall-SonicWall VPN, SCEP				
VPN features	Dead Peer Detection, DHCP over VPN, IPSec NAT Traversal, redundant VPN gateway, VPN based routing				
Supported Global VPN Client Platforms	Microsoft® Windows Vista 32/64 bit, Windows 7 32/64 bit, Windows 8.0 32/64 bit, Windows 8.1 32/64 bits, Windows 10				
NetExtender	32/64-bit Microsoft Windows Vista, Windows 7, 32/64-bit Windows 8.0, 32/64-bit Windows 8.1, Mac OS X 10.4+, Linux FC3 + / Ubuntu 7 + / OpenSUSE				
Mobile Connect	Apple® iOS, Mac OS X, Google® Android ™, Kindle Fire, Chrome, Windows 8.1 (built-in)				

Security services	SOHO series	TZ300 Series	TZ400 Series	TZ500 Series	TZ600
Deep Packet Inspection Content Filtering	Gateway Anti-Virus, Anti-Spyware, Intrusion Prevention, DPI SSL				
Service (CFS) Services	HTTP URL, HTTPS IP, content and keyword analysis, full filtering based on file types such as ActiveX, Java, cookies for privacy, allow / deny lists				
Enforced Client Anti-Virus and Anti-Spyware	McAfee® and Kaspersky™				
Comprehensive Anti-Spam Service	Supported				
Viewing applications	No	Yes	Yes	Yes	Yes
App control	Yes	Yes	Yes	Yes	Yes
Capture Advanced Threat Protection	No	Yes	Yes	Yes	Yes

SonicWall TZ Series System Specifications (cont.)

Interconnection	SOHO series	TZ300 Series	TZ400 Series	TZ500 Series	TZ600
IP address assignment NAT modes	Static, (DHCP, PPPoE, L2TP and PPTP client), internal DHCP server, DHCP relay				
	1: 1, 1: many, many: 1, many: many, Flexible NAT (overlapping IPs), PAT, transparent mode				
Routing protocols[4]	BGP[4] OSPF, RIPv1 / v2, static routes, policy-based routing				
QoS	Bandwidth priority, maximum bandwidth, guaranteed bandwidth, DSCP marking, 802.1e (WMM)				
Authentication	LDAP (multiple domains), XAUTH / RADIUS, SSO, Novell, base of user data internal	LDAP (multiple domains), XAUTH / RADIUS, SSO, Novell, internal user database, Terminal Services, Citrix			
Local VoIP user database	150			250	
	H.323 v1-5 full, SIP				
Standards	TCP / IP, UDP, ICMP, HTTP, HTTPS, IPSec, ISAKMP / IKE, SNMP, DHCP, PPPoE, L2TP, PPTP, RADIUS, IEEE 802.3				
Certifications	FIPS 140-2 (with Suite B) level 2, UC APL, VPNC, IPv6 (phase 2), ICSA Network Firewall, ICSA Anti-virus				
Certifications pending	Common Criteria NDPP				
Common Access Card (CAC) High availability	Supported				
	No	Active / standby	Active / standby	Active / standby with synchronization of State	Active / standby with state sync
Hardware	**SOHO series**	**TZ300 Series**	**TZ400 Series**	**TZ500 Series**	**TZ600**
Form factor	Desktop PC				
Power supply (W) Maximum power	24 W (external)	24 W (external)	24 W (external)	36 W (external)	60W (external)
consumption (W) Input power	6.4 / 11.3	6.9 / 12.0	9.2 / 13.8	13.4 / 17.7	16.1
	100 to 240 VAC, 50-60 Hz, 1 A				
Total heat dissipation	21.8 / 38.7 BTU	23.5 / 40.9 BTU	31.3 / 47.1 BTU	45.9 / 60.5 BTU	55.1 BTU
Dimensions	3.6 x 14.1 x 19 cm	3.5 x 13.4 x 19 cm	3.5 x 13.4 x 19 cm	3.5 x 15 x 22.5 cm	3.5 x 18 x 28 cm
Weight	0.34kg / 0.75lbs 0.48kg / 1.06lbs	0.73kg / 1.61lbs 0.84kg / 1.85lbs	0.73kg / 1.61lbs 0.84kg / 1.85lbs	0.92kg / 2.03lbs 1.05kg / 2.31lbs	1.47 kg / 3.24 pounds
WEEE weight	0.80 kg / 1.76 pounds 0.94kg / 2.07lbs	1.15 kg / 2.53 pounds 1.26kg / 2.78lbs	1.15 kg / 2.53 pounds 1.26kg / 2.78lbs	1.34kg / 2.95lbs 1.48 kg / 3.26 pounds	1.89 kg / 4.16 pounds
Shipping weight	1.20 kg / 2.64 pounds 1.34kg / 2.95lbs	1.37 kg / 3.02 pounds 1.48 kg / 3.26 pounds	1.37 kg / 3.02 pounds 1.48 kg / 3.26 pounds	1.93kg / 4.25lbs 2.07 kg / 4.56 pounds	2.48kg / 5.47lbs
MTBF (years)	58.9 / 56.1 (wireless)	56.1	54.0	40.8	18.4
Environment (Operational / Storage)	0 ° -40 ° C (32 ° -105 ° F) / - 40 ° to 70 ° C (-40 ° to 158 ° F)				
Humidity	5-95%, non-condensing				
Regulations	**SOHO series**	**TZ300 Series**	**TZ400 Series**	**TZ500 Series**	**TZ600**
Regulatory model (wired)	APL31-0B9	APL28-0B4	APL28-0B4	APL29-0B6	APL30-0B8
Standards Compliance (Cable Models)	FCC Class B, ICES Class B, CE (EMC, LVD, RoHS), C-Tick, VCCI Class B, UL, cUL, TUV / GS, CB, Certificate of compliance for Mexico by UL, WEEE, REACH, KCC / MSIP	FCC Class B, ICES Class B, CE (EMC, LVD, RoHS), C-Tick, VCCI Class B, UL, cUL, TUV / GS, CB, Certificate of compliance for Mexico by UL, WEEE, REACH, KCC / MSIP	FCC Class B, ICES Class B, CE (EMC, LVD, RoHS), C-Tick, VCCI Class B, UL, cUL, TUV / GS, CB, Certificate of compliance for Mexico by UL, WEEE, REACH, KCC / MSIP	FCC Class B, ICES Class B, CE (EMC, LVD, RoHS), C-Tick, VCCI Class B, UL, cUL, TUV / GS, CB, Certificate of compliance for Mexico by UL, WEEE, REACH, BSMI, KCC / MSIP	FCC Class A, ICES Class A, CE (EMC, LVD, RoHS), C-Tick, VCCI Class A, UL, cUL, TUV / GS, CB, Certified compliance for Mexico by UL, WEEE, REACH, KCC / MSIP
Regulatory model (wired)	APL41-0BA	APL28-0B5	APL28-0B5	APL29-0B7	-
Compliance with the main regulatory rules (wireless models)	FCC Class B, FCC RF ICES Class B, IC RF CE (R & TTE, EMC, LVD, RoHS), RCM, VCCI Class B, MIC / TELEC, UL, cUL, TUV / GS, CB, certificate of compliance for Mexico by UL, WEEE, REACH	FCC Class B, FCC RF ICES Class B, IC RF CE (R & TTE, EMC, LVD, RoHS), RCM, VCCI Class B, MIC / TELEC, UL, cUL, TUV / GS, CB, certificate of compliance for Mexico by UL, WEEE, REACH	FCC Class B, FCC RF ICES Class B, IC RF CE (R & TTE, EMC, LVD, RoHS), RCM, VCCI Class B, MIC / TELEC, UL, cUL, TUV / GS, CB, certificate of compliance for Mexico by UL, WEEE, REACH	FCC Class B, FCC RF ICES Class B, IC RF CE (R & TTE, EMC, LVD, RoHS), RCM, VCCI Class B, MIC / TELEC, UL, cUL, TUV / GS, CB, certificate of compliance for Mexico by UL, WEEE, REACH	-

SonicWall TZ Series System Specifications (cont.)

Wireless connection integrated	SOHO series	TZ300, TZ400 and TZ500 Series	TZ600
Standards	802.11 a / b / g / n	802.11a / b / g / n / ac (WEP, WPA, WPA2, 802.11i, TKIP, PSK, 02.1x, EAP-PEAP, EAP-TTLS)	-
Frequency bands[5]	802.11a: 5180-5825 GHz; 802.11b / g: 2412-2472 GHz; 802.11n: 2412-2472 GHz, 5180-5825 GHz;	802.11a: 5180-5825 GHz; 802.11b / g: 2412-2472 GHz; 802.11n: 2412-2472 GHz, 5180-5825 GHz; 802.11ac: 2.412-2.472 GHz, 5.180-5.825 GHz	-
Operational channels	802.11a: Canada and US 12, Europe 11, Japan 4, Singapore 4, Taiwan 4; 802.11b / g: 1-11, Europe 1-13, Japan 1-14 (14 only 802.11b); 802.11n (2.4 GHz): Canada and USA 1-11, Europe 1-13, Japan 1-13; 802.11n (5 GHz): Canada and USA 36-48 / 149-165, Europe 36-48, Japan 36-48, Spain 36-48 / 52-64;	802.11a: Canada and US 12, Europe 11, Japan 4, Singapore 4, Taiwan 4; 802.11b / g: 1-11, Europe 1-13, Japan 1-14 (14 only 802.11b); 802.11n (2.4 GHz): Canada and US 1-11, Europe 1-13, Japan 1-13; 802.11n (5 GHz): Canada and USA 36-48 / 149-165, Europe 36-48, Japan 36-48, Spain 36-48 / 52-64; 802.11ac: Canada and US 36-48 / 149-165, Europe 36-48, Japan 36-48, Spain 36-48 / 52-64	-
Transmission output power	It is based on the normative domain specified by the system administrator	It is based on the normative domain specified by the system administrator	-
Transmission power control	Supported	Supported	-
Speeds supported transfer	802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mb / s per channel; 802.11b: 1, 2, 5.5, 11 Mb / s per channel; 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mb / s per channel; 802.11n: 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2, 15.30, 45, 60, 90, 120, 135, 150 Mb / s per channel;	802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mb / s per channel; 802.11b: 1, 2.5, 11 Mb / s per channel; 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mb / s per channel; 802.11n: 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2, 15, 30, 45, 60, 90, 120, 135, 150 Mb / s per channel; 802.11ac: 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2, 86.7, 96.3, 15, 30, 45, 60, 90, 120, 135, 150, 180, 200, 32.5, 65, 97.5, 130, 195, 260, 292.5, 325, 390, 433.3, 65, 130, 195, 260, 390, 520, 585, 650, 780, 866.7 Mb / s per channel	-
Spectrum of the technology of modulation	802.11a: Orthogonal Frequency Division Multiplexing (OFDM); 802.11b: Direct Sequence Spread Spectrum (DSSS); 802.11g: Orthogonal Frequency Division Multiplexing (OFDM) / Direct Sequence Spread Spectrum (DSSS); 802.11n: Orthogonal Frequency Division Multiplexing (OFDM)	802.11a: Orthogonal Frequency Division Multiplexing (OFDM); 802.11b: Direct Sequence Spread Spectrum (DSSS); 802.11g: Orthogonal Frequency Division Multiplexing (OFDM) / Direct Sequence Spread Spectrum (DSSS); 802.11n: Orthogonal Frequency Division Multiplexing (OFDM); 802.11ac: Division multiplexing orthogonal frequencies (OFDM)	-

**** Future use.***

[1] ***Test methods: 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 performance measured using the standard Spirent WebAvalanche HTTP performance test and Ixia testing tools. Multiple streams through multiple pairs of ports have been used for testing.***

[3] ***VPN performance measurement based on UDP traffic with 1280-byte packets in accordance with RFC 2544. Specifications, capabilities, and availability are subject to change.***

[4] ***BGP is only available on the SonicWall TZ400, TZ500, and TZ600.***

[5] ***All integrated wireless TZ models can support 2.4GHz or 5GHz bands. For dual band support, use SonicWall wireless access point products (SonicPoints)***

SonicWall TZ Series Ordering Information

Product	SKU
SonicWall SOHO with 1 year TotalSecure	01-SSC-0651
SonicWall SOHO Wireless-N with 1 year of TotalSecure SonicWall	01-SSC-0653
TZ300 with 1 year of TotalSecure	01-SSC-0581
SonicWall TZ300 Wireless-AC with 1 year of TotalSecure SonicWall	01-SSC-0583
TZ400 with 1 year of TotalSecure	01-SSC-0514
SonicWall TZ400 Wireless-AC with 1 year of TotalSecure SonicWall	01-SSC-0516
TZ500 with 1 year of TotalSecure	01-SSC-0445
SonicWall TZ500 Wireless-AC with 1 year of TotalSecure SonicWall	01-SSC-0446
TZ600 with 1 year of TotalSecure	01-SSC-0219
High availability options (all drives must be the same model)	
SonicWall TZ500 with high availability	01-SSC-0439
SonicWall TZ600 with high availability	01-SSC-0220

SonicWall TZ Series Ordering Information

Services	SKU
For SonicWall SOHO series	
Comprehensive Gateway Security Suite (1 year)	01-SSC-0688
Gateway Anti-Virus, Intrusion Prevention and Application Control (1 year) Content Filtering	01-SSC-0670
Service (1 year)	01-SSC-0676
Comprehensive Anti-Spam Service (1 year) 24x7	01-SSC-0682
Support (1 year)	01-SSC-0700
For SonicWall TZ300 series	
Advanced Gateway Security Suite - Capture ATP, Threat Prevention, content filtering and 24x7 support for TZ300 (1 year)	01-SSC-1430
Capture Advanced Threat Protection for TZ300 (1 year)	01-SSC-1435
Gateway Anti-Virus, Intrusion Prevention and Application Control (1 year) Content Filtering	01-SSC-0602
Service (1 year)	01-SSC-0608
Comprehensive Anti-Spam Service (1 year) 24x7	01-SSC-0632
Support (1 year)	01-SSC-0620
For SonicWall TZ400 series	
Advanced Gateway Security Suite - ATP Capture, Threat Prevention, Content Filtering and 24x7 Support for TZ400 (1 Year)	01-SSC-1440
Capture Advanced Threat Protection for TZ400 (1 year)	01-SSC-1445
Gateway Anti-Virus, Intrusion Prevention and Application Control (1 year) Content Filtering	01-SSC-0534
Service (1 year)	01-SSC-0540
Comprehensive Anti-Spam Service (1 year) 24x7	01-SSC-0561
Support (1 year)	01-SSC-0552
For SonicWall TZ500 series	
Advanced Gateway Security Suite - ATP Capture, Threat Prevention, Content Filtering and 24x7 Support for TZ500 (1 Year)	01-SSC-1450
Capture Advanced Threat Protection for TZ500 (1 year)	01-SSC-1455
Gateway Anti-Virus, Intrusion Prevention and Application Control (1 year) Content Filtering	01-SSC-0458
Service (1 year)	01-SSC-0464
Comprehensive Anti-Spam Service (1 year) 24x7	01-SSC-0482
Support (1 year)	01-SSC-0476
For SonicWall TZ600	
Advanced Gateway Security Suite - ATP Capture, Threat Prevention, Content Filtering and 24x7 Support for TZ600 (1 Year)	01-SSC-1460
Capture Advanced Threat Protection for TZ600 (1 year)	01-SSC-1465
Gateway Anti-Virus, Intrusion Prevention and Application Control (1 year) Content Filtering	01-SSC-0228
Service (1 year)	01-SSC-0234
Comprehensive Anti-Spam Service (1 year) 24x7	01-SSC-0252
Support (1 year)	01-SSC-0246

About us

SonicWall has been fighting the cybercrime industry for over 25 years, defending small, medium and large businesses around the world. Our combination of products and partners has enabled us to create a real-time cyber defense solution tailored to the specific needs of more than 500,000 global businesses in more than 150 countries, so you can fully focus on your business without having to worry about the threats.

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