SonicWall Switch

High-speed Network Switching for Business Connectivity

The SonicWall Switch delivers high-speed network switching while providing unparalleled performance and manageability through SonicWall firewalls or Wireless Network Manager. It features a unified security posture, high port density, Power over Ethernet (PoE) options, and gigabit or 10 gigabit performance capabilities. New capabilities such as SNMP monitoring and backup and restore of Switch configurations make it ideal for small- and medium-sized businesses (SMB) and Software-Defined Branch (SD-Branch) deployments. This enables businesses - big or small - to accelerate digital transformation and keep pace with the changing network and security landscape.

View full specs »

HIGHLIGHTS

- SD-Branch ready
- Firewall, WNM, StandAlone UI, and CLI management
- SNMP monitoring
- Backup and restore Switch configurations
- Zero-Touch Deployment
- Unified security posture
- Layer 2 switching
- 10 gigabit or 1 gigabit support
- 8/10/24/48 port models
- Various PoE options
- QoS support
- Segmentation and compliance
- Compact form factor
- Energy-efficient design
- 802.1X and MAB
- Static Routing

Find the right SonicWall solution for your small business and branch deployments:

sonicwall.com/switch

DATASHEET

The SonicWall Secure SD-Branch solution transforms user experience at branch office locations by delivering a unified platform that enables branches to be deployed in minutes. It delivers unified visibility and threat detection from a single pane of glass. SonicWall SD-Branch components consist of SonicWall next-generation firewalls with Secure SD-WAN, Capture Security Center with Zero-Touch Deployment, SonicWall Switches, SonicWave access points (AP), Capture Client and Cloud App Security. With the flexibility that SonicWall Secure SD-Branch offers, organizations can now be more agile, open and cloud-centric.

An integral part of the next-generation branch transformation, the SonicWall Switches are managed via firewalls or Wireless Network Manager (WNM) for unified, single-pane-of-glass management. Not all features available on the standalone switch UI will be available from the Firewall or WNM Management solution. Refer to the Firewall and WNM documentation for supported features. By tightly integrating with SonicWall firewalls and SonicWave Access Points, the solution benefits from a unified security posture and offers an end-to-end security solution that simplifies deployment, management and troubleshooting. This ensures seamless security and eliminates gap in the security posture that may arise with third party switches.

In conjunction, the SonicWall Switch offers Zero-Touch Deployment capability with the ability to quickly roll out devices across branches spread out globally. Admins can quickly and securely deploy these switches at new locations without requiring costly on-site IT personnel.

Packed with features, these switches are available in a compact form factor with an energy-efficient design. Available in seven models, ranging from 8 to 48 ports, with gigabit and 10 gigabit Ethernet ports, the switches work seamlessly with SonicWall next-generation firewalls and SonicWave APs to create a high performance secure network. The Ethernet ports provide PoE options to power on various devices such as APs, VOIP phones and IP cameras.

Organizations can prioritize certain traffic on the network such as VOIP for video conferences while working from home, with features such as QoS. Devices can be easily segmented in the network to maintain compliance. Segregating can be accomplished by creating policies or VLANs. Features such as 802.1X authentication allow businesses to maintain PCI compliance.

MAB (MAC authentication bypass) is a crucial security feature, particularly for devices like Cameras, Printers, and IoT devices that lack compatibility with 802.1x authentication. This ensures robust switch port security, even in instances where traditional authentication methods are not applicable.

PARTNER-ENABLED SERVICES

Need help to plan, deploy or optimize your SonicWall solution? SonicWall Advanced Services Partners are trained to provide you with world-class professional services. Learn more at:

www.sonicwall.com/PES

SonicWall Switch

SWS12-8

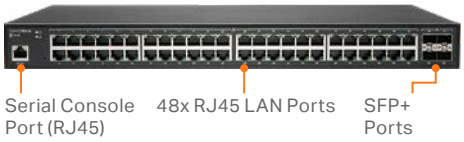
SWS12-8POE

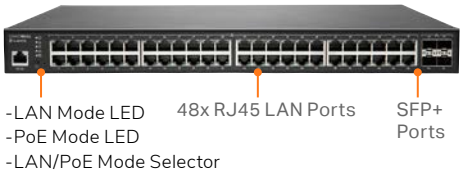
SWS12-10FPOE

SWS14-24

SWS14-24FPOE

SWS14-48





SWS14-48FPOE

Model	Number of Gigabit Ethernet Ports	Number of SFP/SFP+ Ports	PoE Version
SWS12-8	8	2 SFP	Non-PoE
SWS12-8POE	8	2 SFP	802.3af
SWS12-10FPOE	10	2 SFP	802.3at
SWS14-24	24	4 SFP+	Non-PoE
SWS14-24FPOE	24	4 SFP+	802.3at
SWS14-48	48	4 SFP+	Non-PoE
SWS14-48FPOE	48	4 SFP+	802.3at

Specifications

Hardware	SWS12-8	SWS12-8POE	SWS12-10FPOE	SWS14-24	SWS14-24FPOE	SWS14-48	SWS14-48FPOE
1G Cu	8	8	10	24	24	48	48
1G SFP	2	2	2	-	-	-	-
10G SFP+	-	-	-	4	4	4	4
Total Interfaces	10	10	12	28	28	52	52
Memory (MB)	256	256	256	512	512	512	512
Flash (MB)	32	32	32	128	128	128	128
Packet Buf.	512K	512K	512K	1.5M	1.5M	2M	2M
Mac Table	8K	8K	8K	32K	32K	32K	32K
Switching (Gbps)	20	20	24	128	128	176	176
Fan	-	-	1	-	2	1	3
PoE Standard	-	802.3af	802.3af/at	-	802.3af/at	-	802.3af/at
PoE Power (Watts)	-	55	130	-	410	-	740
Power Supply	24W Power Adapter	65W Power Adapter	180W Fixed	25W Fixed	480W Fixed	60W Fixed	900W Fixed
Power Source	12VDC Power Adapter	54VDC Power Adapter	100-240VAC 50-60Hz	100-240VAC 50-60Hz	100-240VAC 50-60Hz	100-240VAC 50-60Hz	100-240VAC 50-60Hz
Power Consumption (Maximum)	5.7W	63.2W	152.8W	24.4W	500.4W	44W	885W
Current	2.0A	1.2A	2.5A	0.7A	7.0A	1.5A	12.0A
Heat Dissipation (BTU)	19.4	249.5	521.1	122.8	1706.4	184.2	1807.3
Min Power Cord Amperage*	10 Amp	10 Amp	10 Amp	10 Amp	10 Amp	10 Amp	12 Amp
Operating Temperature	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C
Storage Temperature	-40 - 70°C	-40 - 70°C	-40 - 70°C	-40 - 70°C	-40 - 70°C	-40 - 70°C	-40 - 70°C
Humidity	10-95% R.H	10-95% R.H	10-95% R.H	10-95% R.H	10-95% R.H	10-95% R.H	10-95% R.H
Dimensions (W x D x H)	240 x 105 x 27mm	240 x 105 x 27mm	330 x 230 x 44mm	440 x 200 x 44mm	440 x 260 x 44mm	440 x 260 x 44mm	440 x 310 x 44mm
Weight	0.62 Kg	0.64 Kg	2.5 Kg	1.8 Kg	3.9 Kg	3.2 Kg	4.8 Kg
RJ-45 Serial Console Port	-	-	1	1	1	1	1
Form Factor	Desktop	Desktop	Desktop	1U	1U	1U	1U
MTBF @25°C in Hours	1,387,712	548,553	180,837	1,273,866	157,763	222,974	100,645
MTBF @25°C in Years	158	62	20	145	18	25	11
Switching Capacity (Duplex) in Gbps	20	20	24	128	128	176	176
VLANs	4096	4096	4096	4096	4096	4096	4096
Regulatory Model	APL51-0E1	APL52-0E2	1RK43-0E3	1RK44-0E4	1RK45-0E5	1RK46-0E6	1RK47-0E7
Regulatory Approvals	FCC Class A, ICES Class A, CE (EMC Class A, LVD, RoHS), C-Tick, VCCI Class A, UL cUL, TUV/GS, CB, Mexico UL DGN notification, WEEE, REACH, BSMI, KCC/MSIP, ANATEL						

* Please check with your local sales team or resellers to ensure you use the right power cord

Switch Series Features - Across All Models

Management and Configuration

- Manage through Capture Security Center via Network Security Manager (NSM) or Wireless Network manager (WNM)*
- SNMP monitoring
- Backup and restore Switch configurations
- Switch auto-discovery
- Daisy chaining via firewalls
- Software upgrade of Switches (from firewall) or Wireless Network Manager
- Centralized VLAN configuration
- Static/Dynamic LAG
- STP
- LLDP/MED
- Static routing
- IPv4 management
- SSH
- Firewall management, standard CLI and web GUI interface
- Software upgrade/downgrade via TFTP/firewall/GUI
- IGMP Snooping

* Available with additional license

Security and Visibility

- MAB (MAC authentication bypass)
- DHCP Snooping
- 802.1x authentication
- Syslog collection
- IP/MAC ACL
- ACL
- IEEE 802.1x authentication port-based
- IEEE 802.1x guest and fallback VLAN

Firewall Features Enforced on Management Firewall

- IPS, GAV, Application Control, Botnet

Layer 2

- Jumbo frames
- Auto-negotiation for port speed and duplex
- MDI/MDIX auto-crossover
- MAC bridging/STP
- Rapid Spanning Tree Protocol (RSTP)
- Multiple Spanning Tree Protocol (MSTP)
- VLAN tagging
- Guest VLAN and voice VLAN
- Unicast/Multicast traffic balance over trunking port
- Flow control and back-pressure
- 10Base-T
- 100Base-TX
- 1000Base-SX/LX
- 1000Base-T
- Gigabit ethernet support
- 10 gigabit ethernet (available on 24 and 48-port models only)
- Ingress/Egress Bandwidth control
- CSMA/CD access method and physical layer specifications
- Storm control
- MAC, IP, ethertype-based VLANs

Quality of Service

- IEEE 802.1p based priority queuing
- IP TOS/DSCP based priority queuing

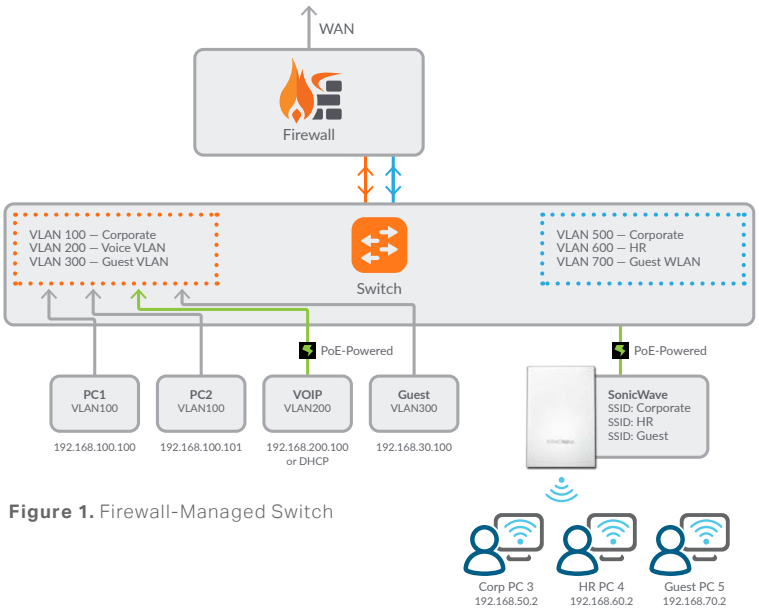


Figure 1. Firewall-Managed Switch

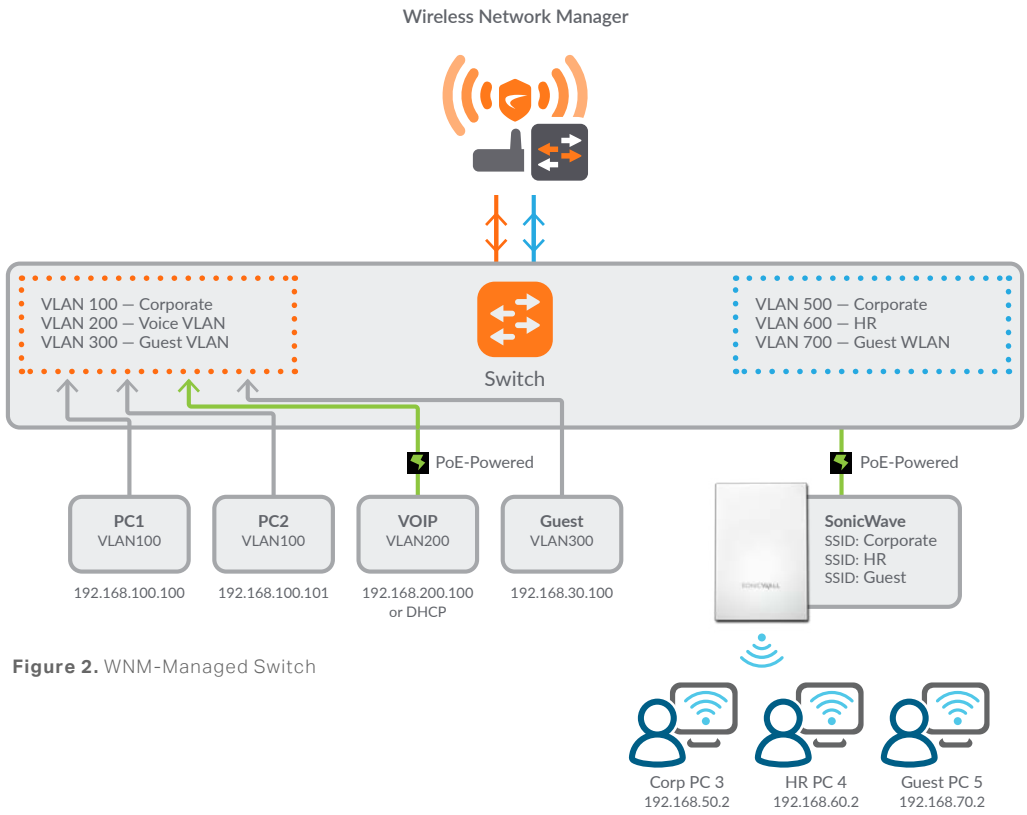


Figure 2. WNM-Managed Switch

To learn how you can obtain a unified security posture for your business, visit:

SonicWall Switch Series

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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www.sonicwall.com

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