

SonicWall Wireless Network Security

Secure, high-speed wireless solutions

SonicWall Wireless Network Security solutions combine high-performance IEEE 802.11ac Wave 2 wireless technology with industry-leading next-generation firewalls. The result is a superior experience for WiFi users that's as secure as any wired connection.

The solutions are based on:

- SonicWall SonicWave series indoor and outdoor wireless access points (APs) which support the 802.11ac Wave 2 wireless standard
- SonicWall TZ, NSA and SuperMassive firewalls, which use deep packet inspection technology to detect and eliminate threats over wired and wireless networks

Superior user experience

SonicWave APs take advantage of the capabilities in 802.11ac Wave 2 and a built-in 2.5 GbE port to deliver high-speed wireless performance. Other features, including 4x4 MU-MIMO and beamforming, improve performance in higher density environments when using bandwidth-intensive applications such as HD multimedia, and cloud and mobile apps.

Each SonicWave access point includes three radios. The third radio is dedicated to security and performs rogue AP detection, passive scanning and packet capturing. With four transmitting and four receiving antennas, SonicWave APs are engineered to optimize signal quality, range and reliability for wireless devices. SonicWave APs supports fast roaming, so that users can roam from one location to another seamlessly. Feature-rich portfolio includes air-time fairness, band steering, and signal analysis tools for monitoring and troubleshooting.

Comprehensive threat prevention

SonicWall firewalls scan all wireless traffic coming into and going out of the network using deep packet inspection technology and then remove harmful threats such as malware and intrusions, even over SSL/TLS encrypted connections. Other security and control capabilities such as content filtering, application control and intelligence and Capture Advanced Threat Protection provide added layers of protection. The Wireless Network Security solution also integrates additional security-related features including wireless intrusion detection and prevention, virtual access point segmentation, wireless guest services, RF monitoring and wireless packet capture.

Simplified deployment and centralized management

Access point deployment and setup are greatly simplified, reducing total cost of ownership (TCO). Integrated into every SonicWall firewall is a wireless controller that auto-detects and auto-provisions SonicWave APs across the network.

Management and monitoring for wireless and security are handled centrally through the firewall or through SonicWall Global Management System, providing network administrators with a single pane of glass from which to manage all aspects of the network.

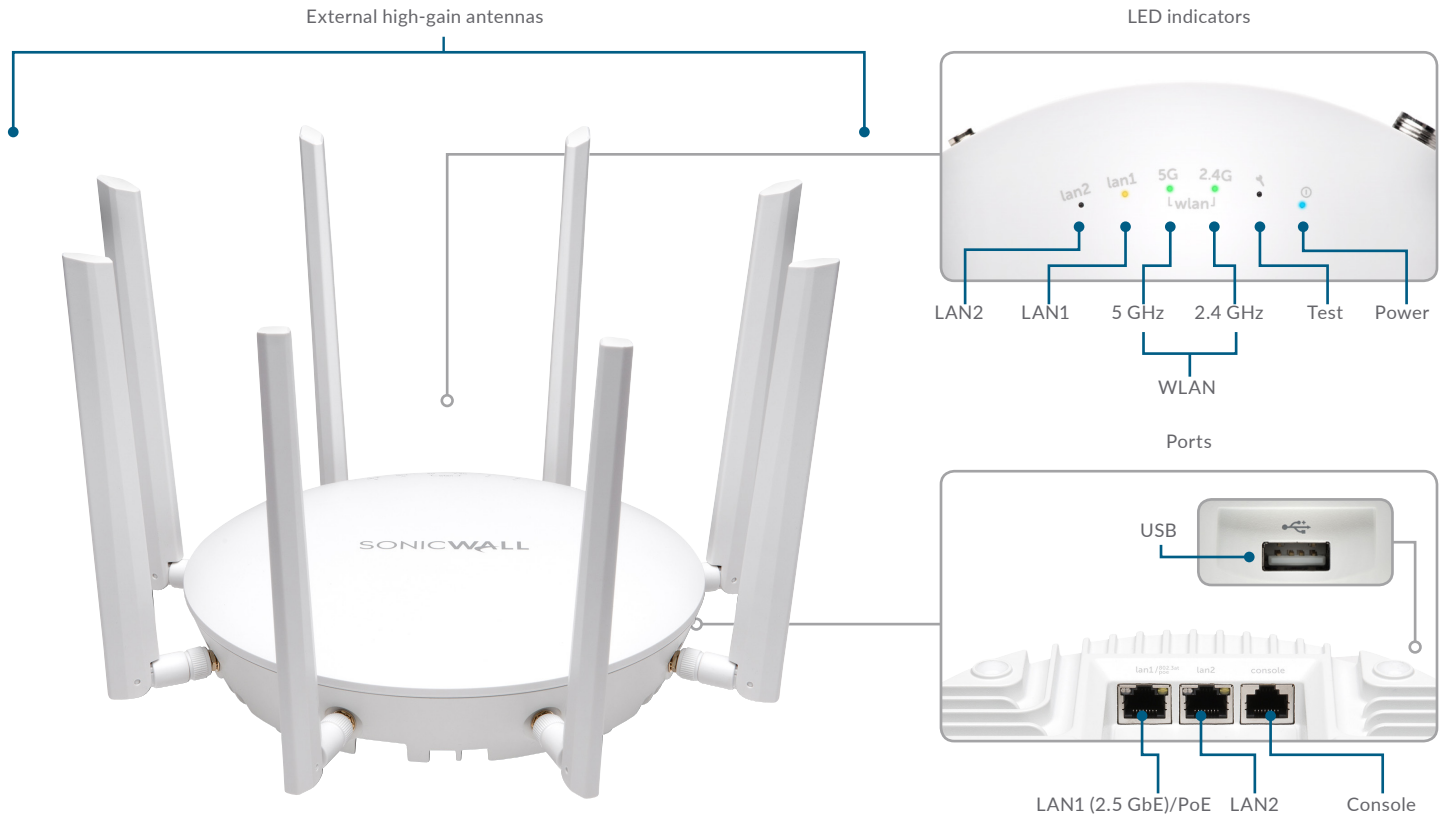
Withstand rugged conditions

The SonicWave 4320 industrial-grade outdoor AP is built to withstand rough outdoor conditions with industrial-grade enclosure. This AP is IP67 rated which ensures protection against dust and water immersion.



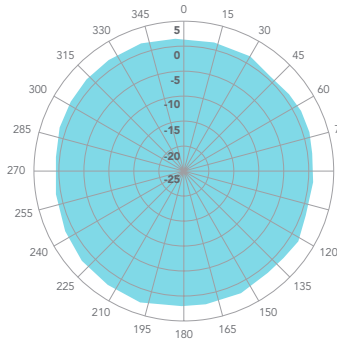
Benefits:

- Superior user experience
 - 802.11ac Wave 2
 - 4x4 MU-MIMO
 - 2.5 GbE port
 - Band steering
 - Auto channel selection enhancement
 - RF spectrum analysis
 - Beamforming
 - AirTime Fairness
 - Fast roaming
 - Access point dynamic VLANs
- Comprehensive threat prevention
 - Deep packet inspection technology
 - SSL/TLS decryption and inspection
 - Dedicated third scanning radio
 - Virtual access point segmentation
 - Wireless intrusion detection and prevention
- Simplified deployment and centralized management
 - Auto-detection and provisioning
 - Wireless signal analysis tools
 - Single-pane-of-glass management
- Low total cost of ownership
 - Integrated wireless access controller
 - Green AP
 - Indoor and outdoor models

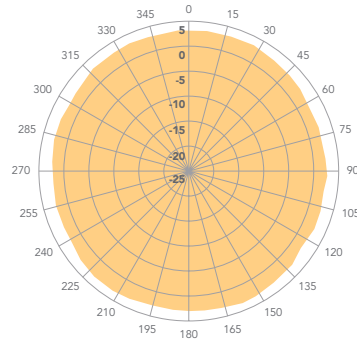


Radio frequency coverage maps

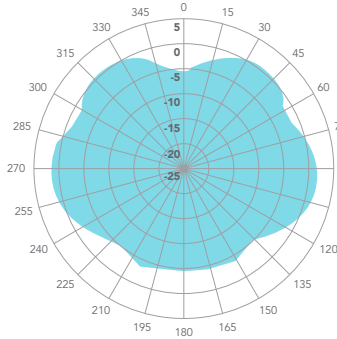
2.4 GHz Vertical



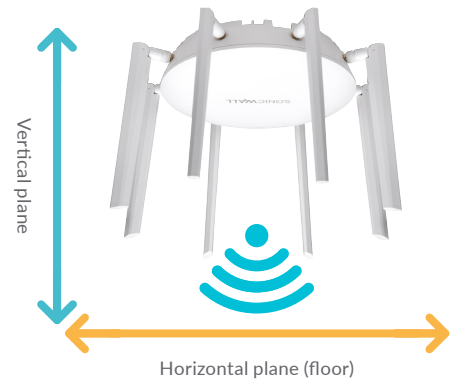
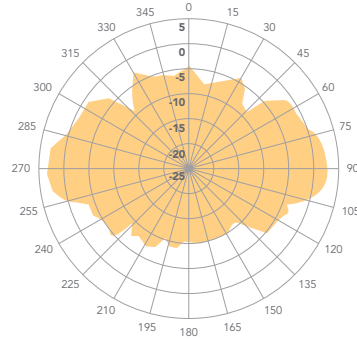
2.4 GHz Horizontal

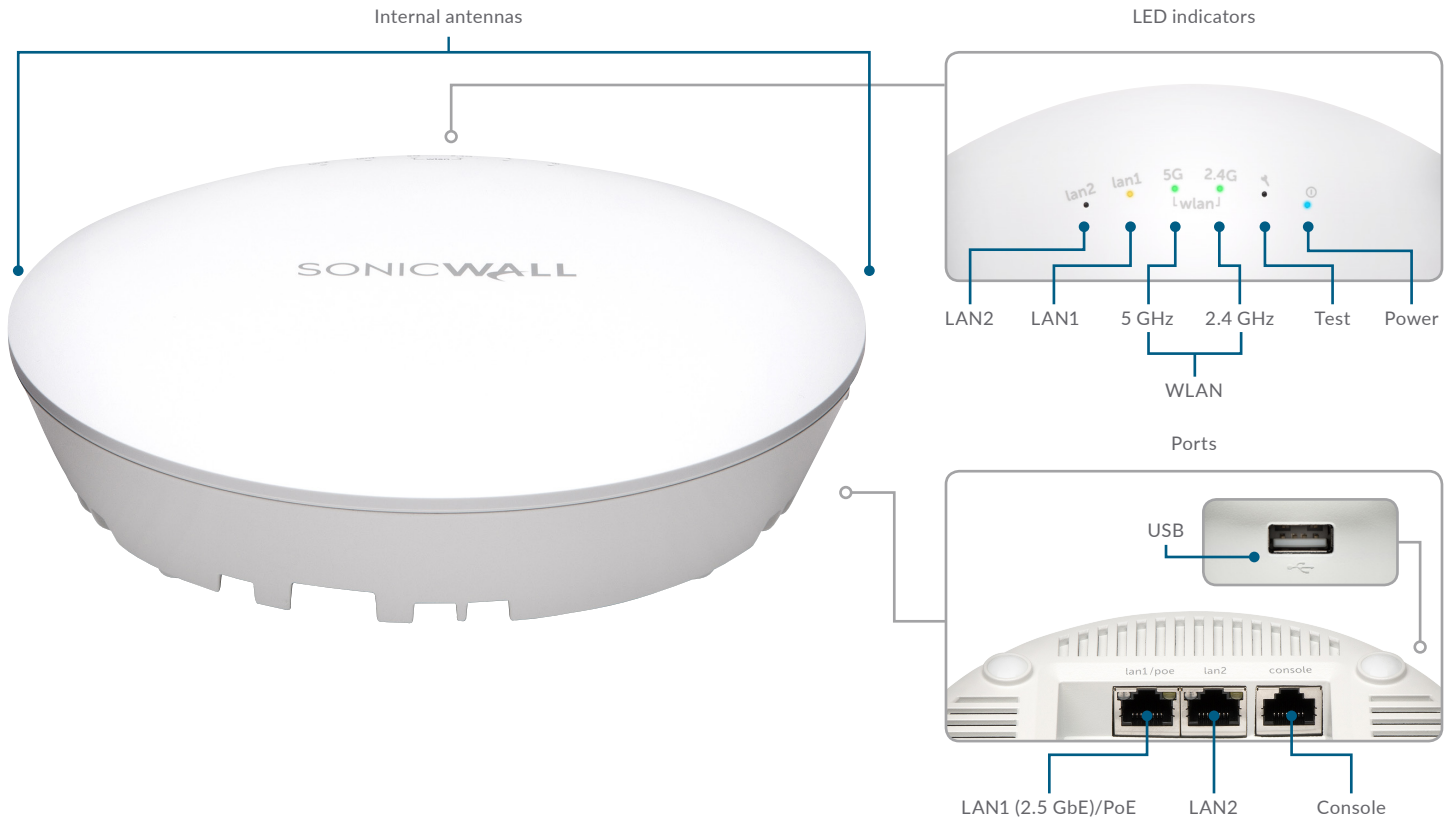


5 GHz Vertical



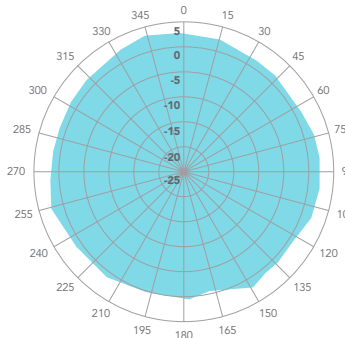
5 GHz Horizontal



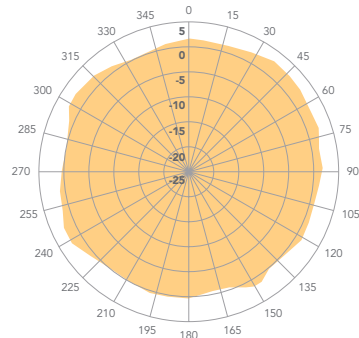


Radio frequency coverage maps

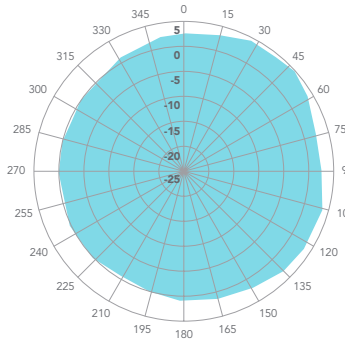
2.4 GHz Vertical



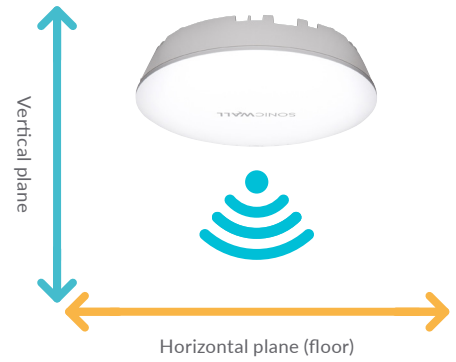
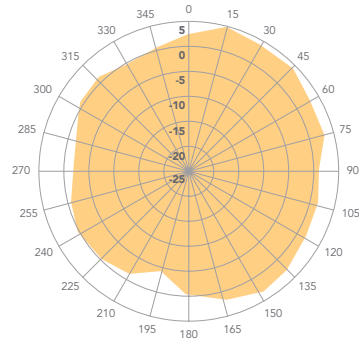
2.4 GHz Horizontal

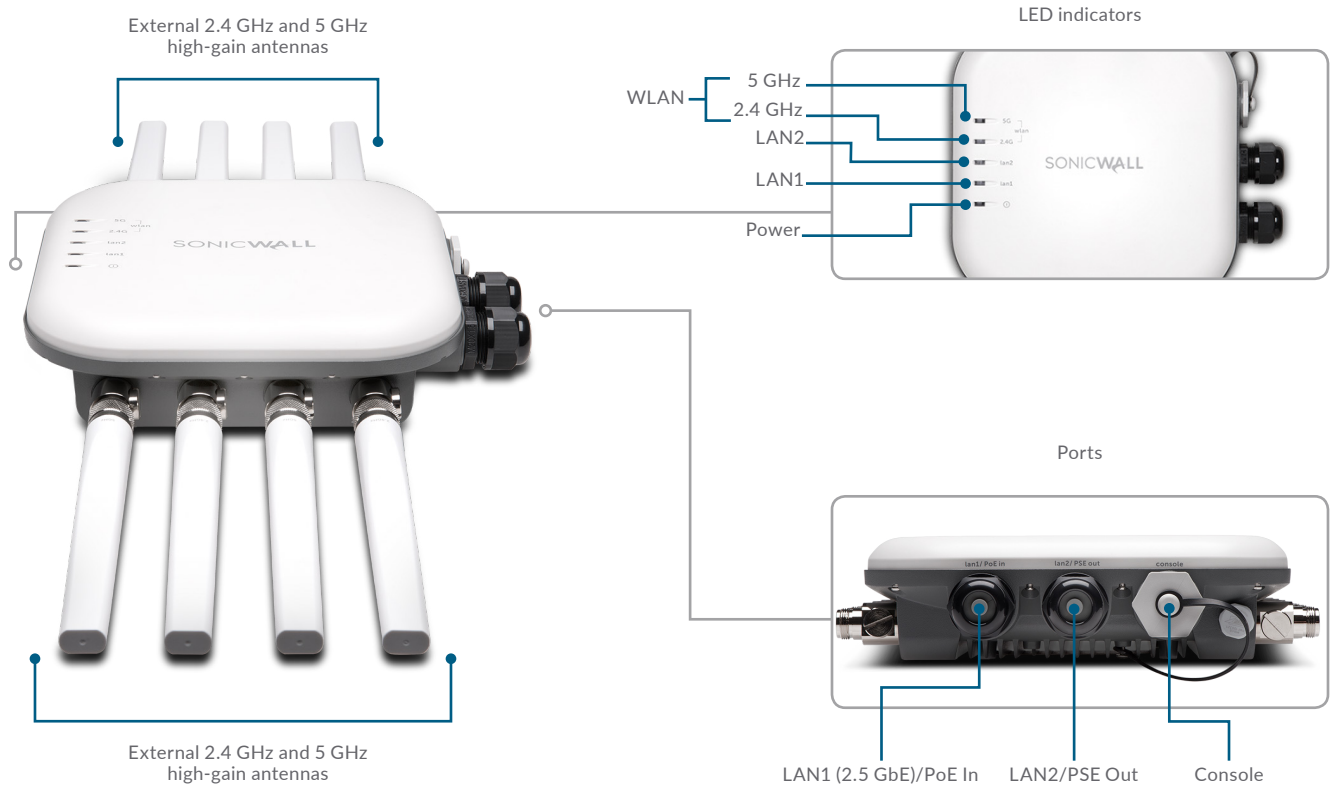


5 GHz Vertical



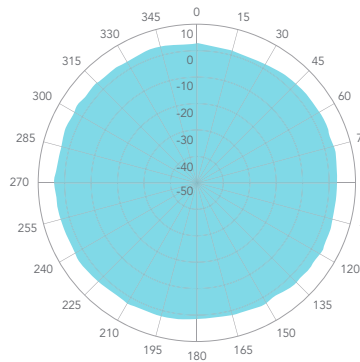
5 GHz Horizontal



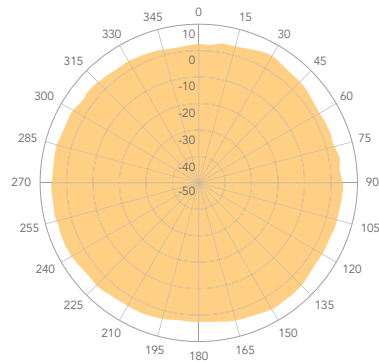


Radio frequency coverage maps

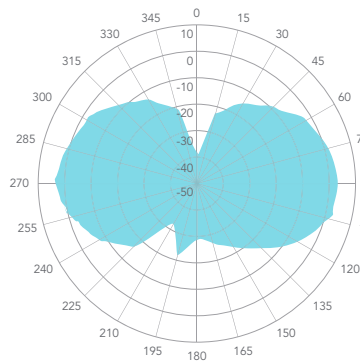
2.4 GHz Vertical



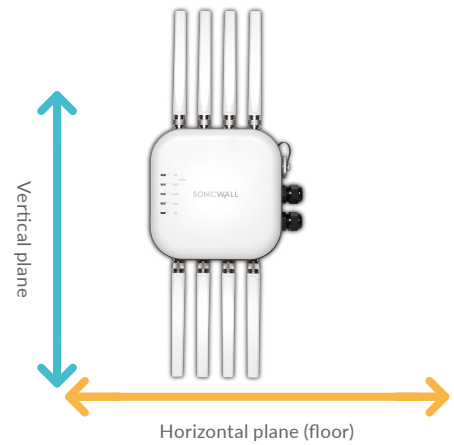
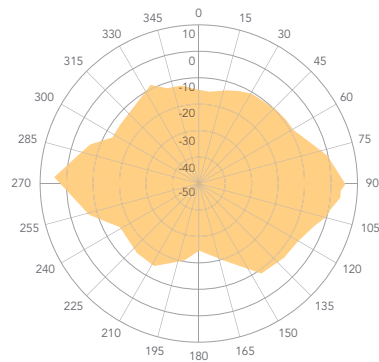
2.4 GHz Horizontal

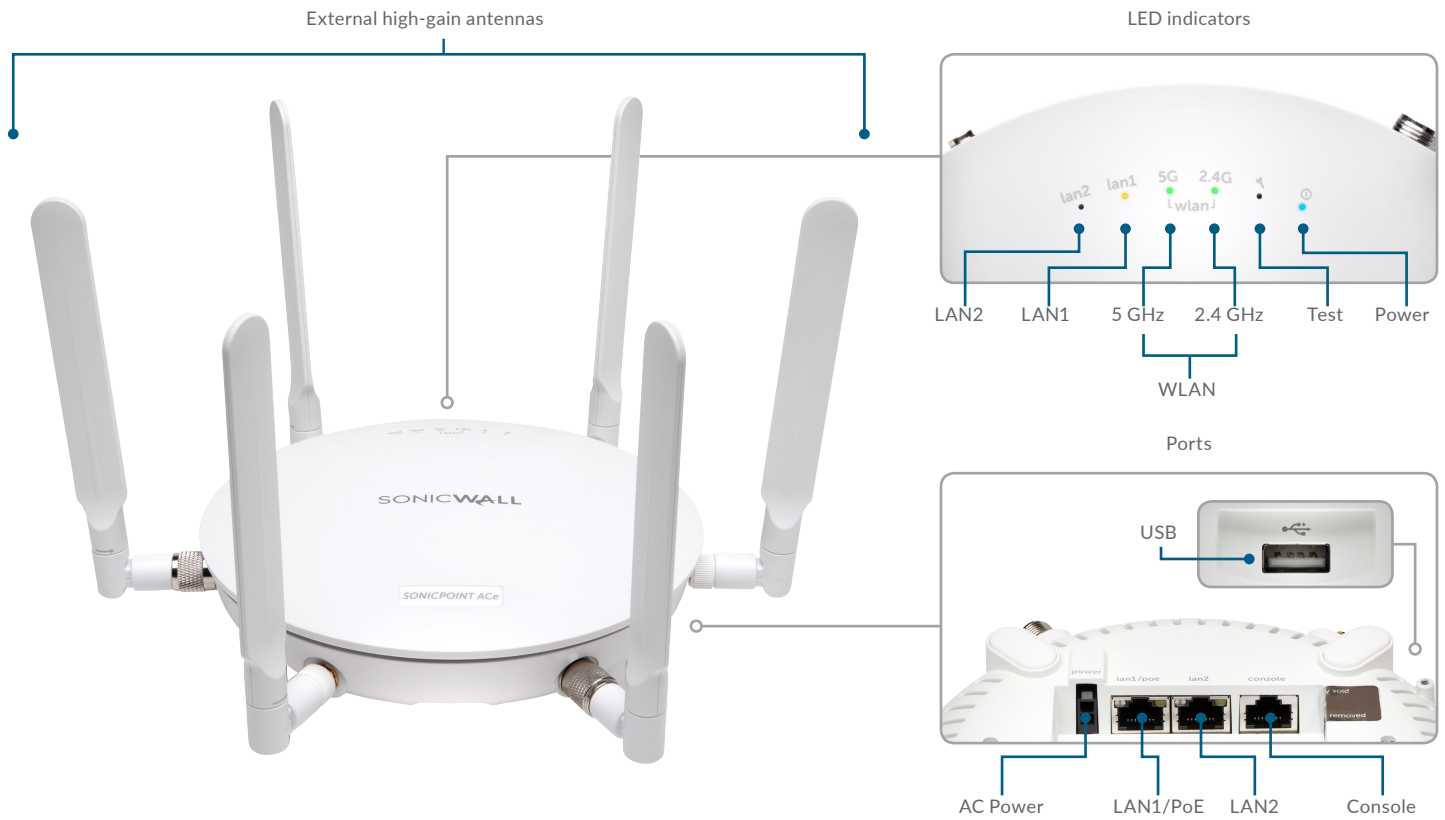


5 GHz Vertical



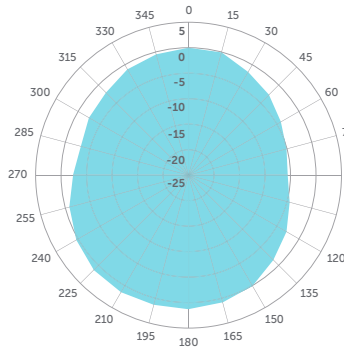
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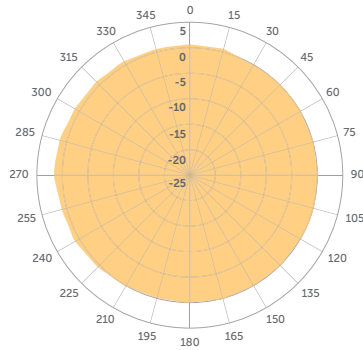


Radio frequency coverage maps

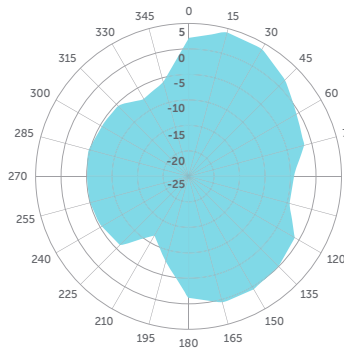
2.4 GHz Vertical



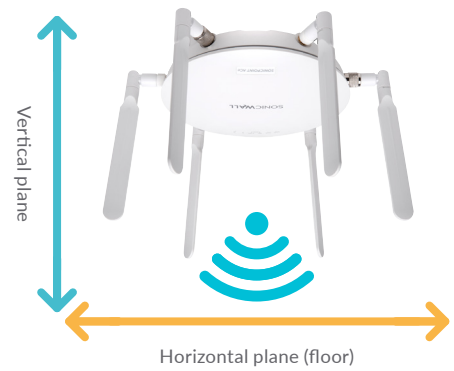
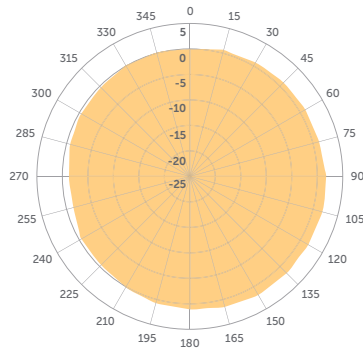
2.4 GHz Horizontal

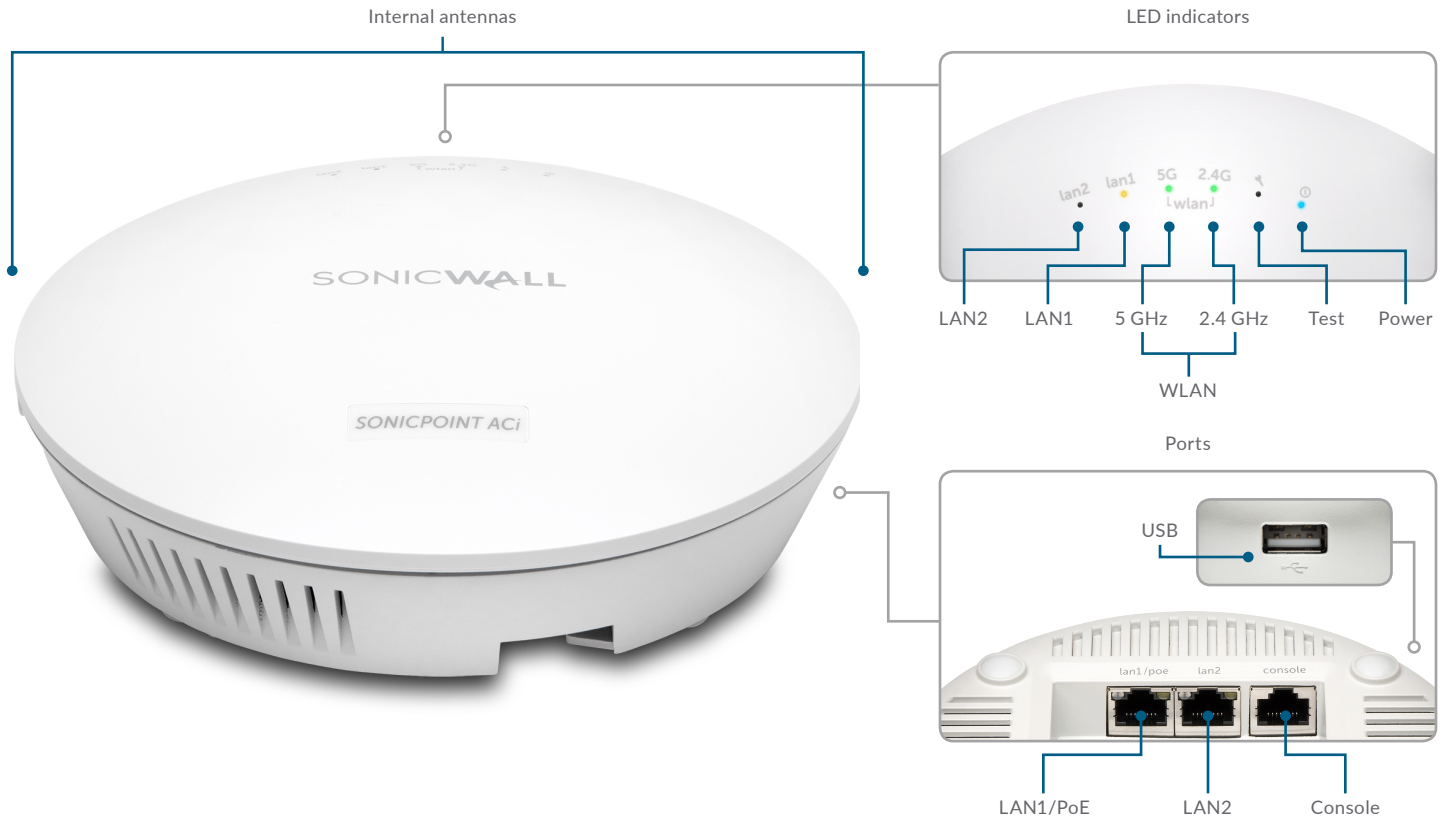


5 GHz Vertical



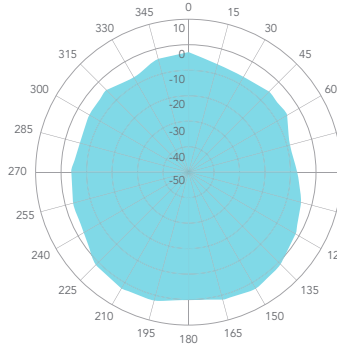
5 GHz Horizontal



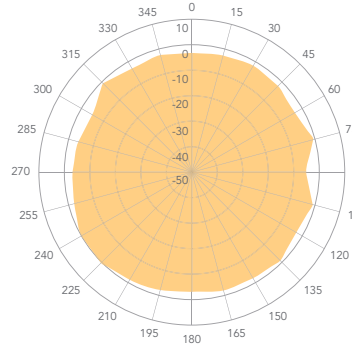


Radio frequency coverage maps

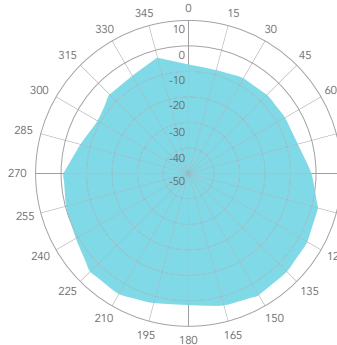
2.4 GHz Vertical



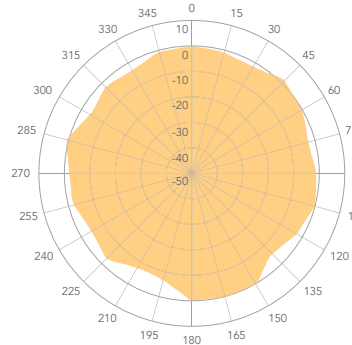
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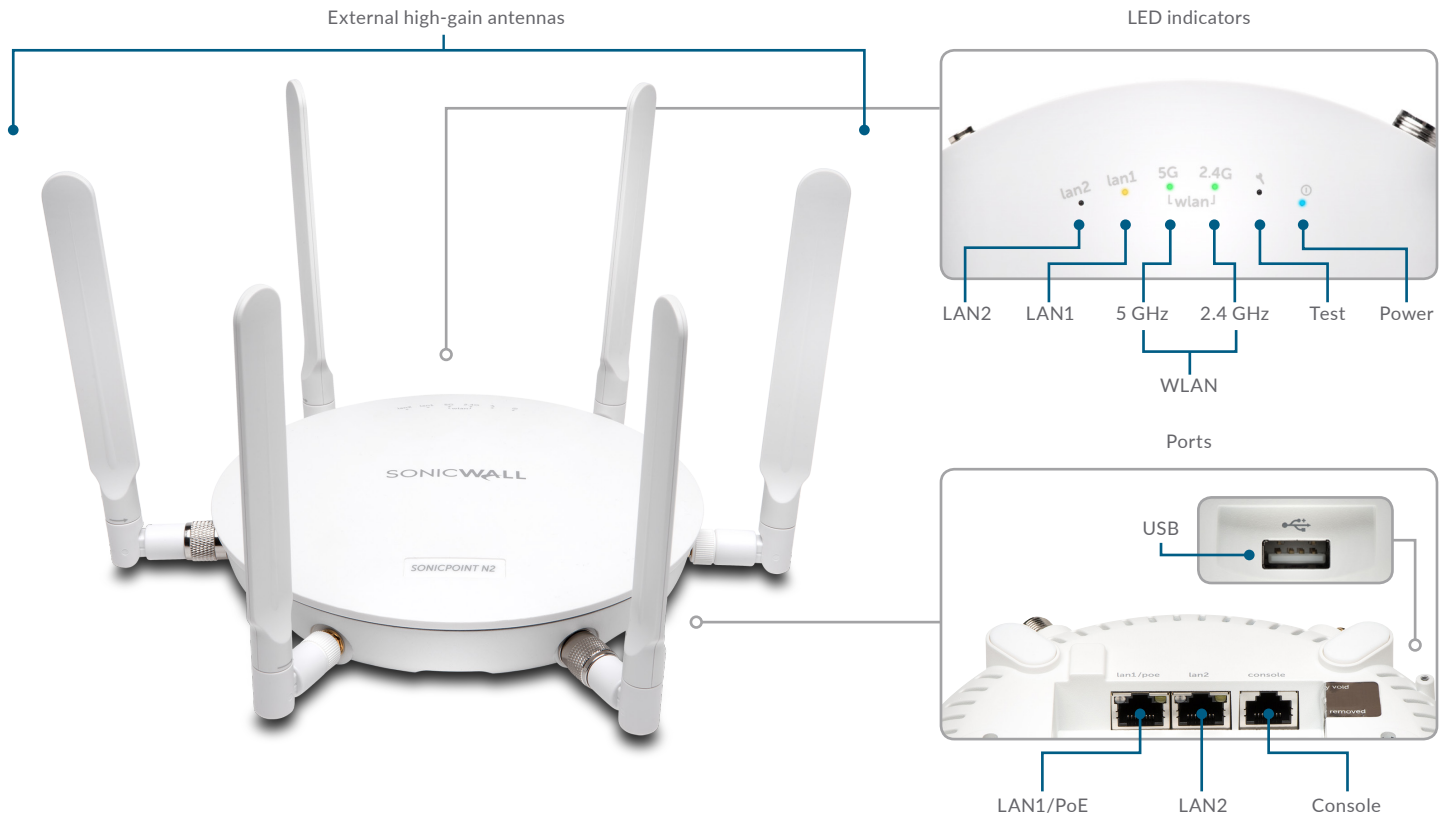


5 GHz Vertical



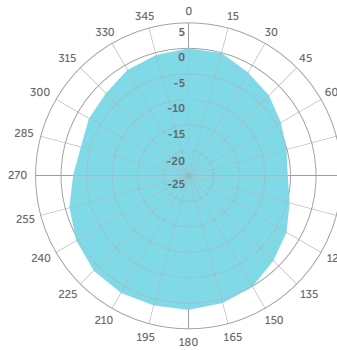
5 GHz Horizontal



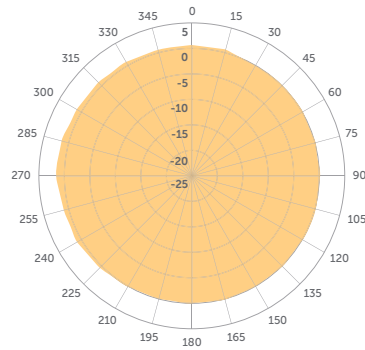


Radio frequency coverage maps

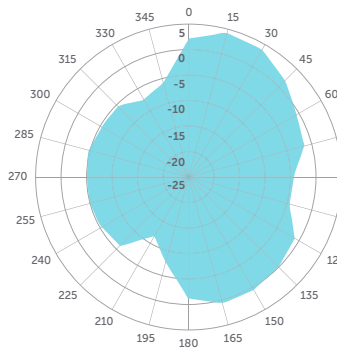
2.4 GHz Vertical



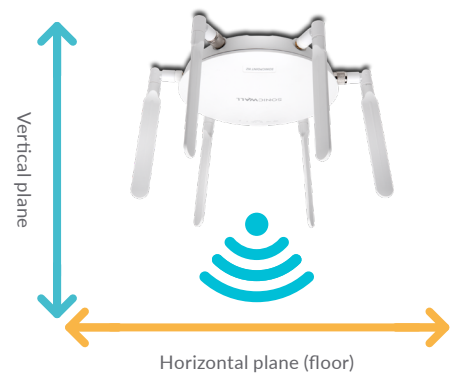
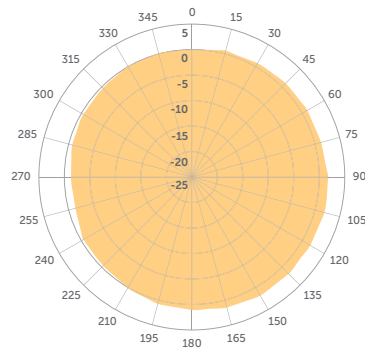
2.4 GHz Horizontal



5 GHz Vertical



5 GHz Horizontal



SonicWave feature summary

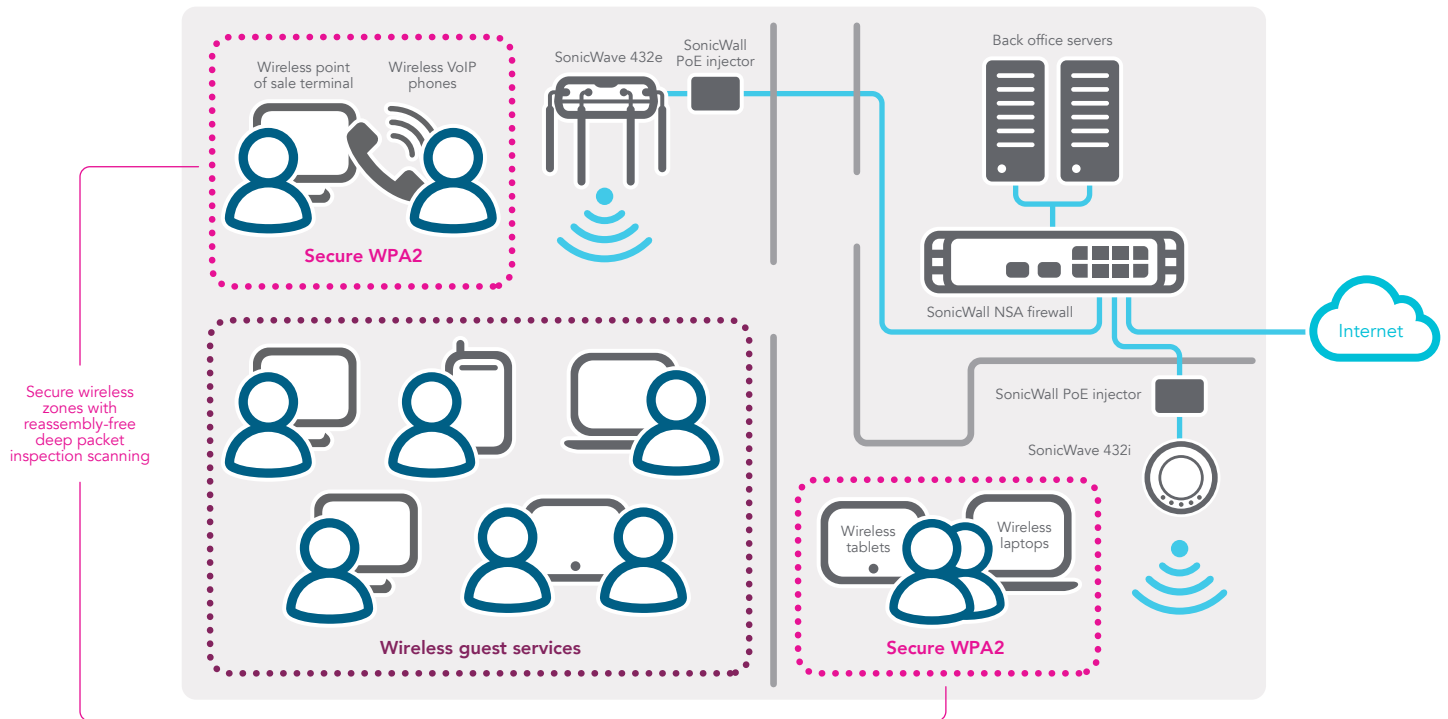
| Superior user experience | |
|---|--|
| Feature | Description |
| High-speed wireless performance and range | SonicWave access points are based on the 802.11ac Wave 2 standard, which can achieve a PHY rate of up to 2.34 Gbps while maintaining a higher performance level at greater ranges depending on environmental conditions. |
| Enhanced signal quality | The 802.11ac standard operates in the 5 GHz frequency band, which has fewer wireless devices competing for airspace and is therefore less prone to signal interference. |
| Increased wireless reliability | The increase in bandwidth capacity and greater number of spatial streams combined with 4x4 MU-MIMO and the improved processing offered by 802.11ac, result in more reliable wireless coverage. |
| MU-MIMO | MU-MIMO (Multi-user, multiple-input, multiple-output) technology enables simultaneously transmission from the access point to numerous wireless clients instead of just one. |
| Band steering | Band steering improves the user experience by steering dual-band clients to automatically connect to the less crowded 5 GHz frequency band leaving the more crowded 2.4 GHz frequency for legacy clients. |
| Beamforming | Beamforming improves wireless performance and range by focusing the wireless signal on an individual client instead of spreading the data transmission equally in all directions. |
| AirTime Fairness | AirTime Fairness distributes air time equally among connected clients, ensuring faster clients get more data in their time while slower clients receive less. |
| FairNet wireless bandwidth allocation | FairNet guarantees a minimum amount of bandwidth to each wireless client in order to prevent disproportionate bandwidth consumption by a single user. |
| Comprehensive wireless security | |
| Feature | Description |
| Reassembly-Free Deep Packet Inspection technology | SonicWall next-generation firewalls tightly integrate Reassembly-Free Deep Packet Inspection* (RFDPI) technology to scan all inbound and outbound traffic on wired and wireless networks and eliminate intrusions, ransomware, spyware, viruses and other threats before they enter the network. |
| SSL/TLS decryption and inspection | The SonicWall firewall decrypts and inspects SSL/TLS 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/TLS-encrypted traffic. |
| Dedicated third scanning radio | SonicWave access points include a dedicated that performs continual scanning of the wireless spectrum for rogue access points plus additional security functions that help with PCI compliance. |
| Wireless intrusion detection and prevention | Wireless intrusion detection and prevention scans the wireless network for unauthorized (rogue) access points and then the managing firewall automatically takes countermeasures, such as preventing any connections to the device. |
| Wireless guest services | Wireless guest services enables administrators to provide internet-only access for guest users. This access is separate from internal access and requires guest users to securely authenticate to a virtual access point before access is granted. |
| Lightweight hotspot messaging | Lightweight hotspot messaging extends the SonicWall wireless guest services model of differentiated internet access for guest users, enabling extensive customization of the authentication interface and the use of any kind of authentication scheme. |
| Captive portal | Captive portal forces a user's device to view a page and provide authentication through a web browser before internet access is granted. |
| Virtual access point segmentation | Administrators can create up to eight SSIDs on the same access point, each with its own dedicated authentication and privacy settings. This provides logical segmentation of secure wireless network traffic and secure customer access. |

| Comprehensive wireless security, con't | |
|--|---|
| Feature | Description |
| Cloud ACL | An extension to local ACL, cloud ACL is deployed and managed from a centralized RADIUS server in the cloud. This eliminates local ACL scalability issues, enabling organizations to configure authentication accounts based on their specific requirements. In addition, MAC authentication can be enforced on all WiFi-enabled devices even if they are not capable of 802.1x support. This adds another layer of protection to the wireless network. |
| Multi-RADIUS authentication | Multi-RADIUS Authentication provides enterprise-class redundancy by enabling organizations to deploy multiple RADIUS servers in active/passive mode for high availability. Should the primary RADIUS server fail, the managing SonicWall firewall discovers the failure and switches to the secondary server, ensuring wireless devices can continue to authenticate. Further, multi-RADIUS authentication can be supported on each virtual access point and configured for WPA-Enterprise, WPA2-Enterprise or WPA2-Auto-Enterprise mode. |
| Granular security policy enforcement | Network administrators can implement and enforce firewall rules on all wireless traffic and control all wireless client communications to any host on the network – wired or wireless. |
| Simplified deployment and centralized management | |
| Feature | Description |
| Simplified setup and centralized management | SonicWave access points are automatically detected, provisioned and updated by the wireless controller in the managing SonicWall SuperMassive, NSA or TZ Series firewall. WLAN administration is also handled directly from the managing firewall, simplifying setup and centralizing ongoing management. |
| Wireless planning tool | To optimize access point placement before deployment, the wireless planning tool provides comprehensive visualization of the WiFi environment including obstacles that impact signal performance plus both covered and non-covered zones. |
| Floor plan view | Floor plan view is a WiFi planning tool that enables users to upload or create a floor plan and place SonicWave access points appropriately to ensure required wireless coverage. |
| Topology view | Topology view is a WiFi tool that automatically maps devices and how they are connected in the wireless network architecture in order to aid in troubleshooting. |
| Plenum rated | SonicWave access points are plenum rated for safe installation in air-handling spaces such as in or above suspended ceilings. |
| Multiple power options | SonicWave access points are powered from a SonicWall IEEE 802.11at+ Power over Ethernet (PoE) Injector or third-party device for easy deployment where electrical outlets are not readily accessible. |
| Light controls | With dimmable LEDs (excluding power), SonicPoints fit perfectly into environments that need discreet wireless coverage. |
| Broad standards and protocols support | SonicWave access points support a wide range of wireless standards and security protocols, including 802.11 a/b/g/n/ac, WPA2 and WPA. This allows organizations to leverage prior investments in devices that are incapable of supporting higher encryption standards. |
| Low total cost of ownership | |
| Feature | Description |
| Low TCO | Features such as simplified deployment, single pane of glass management for both wireless and security, and no need to purchase a separate wireless controller drastically reduce an organization's cost to add wireless into a new or existing network infrastructure. |
| MiFi extender | MiFi Extender enables the attachment of a 3G/4G/LTE modem to the SonicWave access point for use as either the primary WAN or as a secondary failover WAN link for business continuity. |
| Bluetooth Low Energy | SonicWave access points include a Bluetooth Low Energy radio that enables the use of ISM (industrial, scientific and medical) applications for healthcare, fitness, retail beacons, security and home entertainment over a low energy link. |
| Green access points | SonicWave access points reduce costs by supporting green access points, which enables both radios to enter sleep mode for power saving when no clients are actively connected. The access point will exit sleep mode once a client attempts to associate with it. |

Wireless Network Security scenarios

SonicWall Wireless Network Security is the ideal solution for organizations of all sizes and types looking to build a secure, high-speed wireless network. Deploying SonicWave 802.11ac Wave 2 access points in combination with a SonicWall next-generation firewall provides enterprise-class wireless performance and security for businesses, schools, hospitals and other organizations.

Small networks – Retail store/medical or dental office deployments



Advanced Gateway Security Suite includes Capture Advanced Threat Protection, Gateway Security, Content Filtering and 24x7 support.

SonicWall Wireless Network Security is perfect for small offices, such as retail businesses, school classrooms, medical/dental businesses and banks. By combining SonicWave series wireless access points with a SonicWall firewall, these organizations can quickly extend wireless network access while providing deep packet inspection for both wired and wireless traffic at the gateway before allowing access to sensitive resources. SonicWall

wireless guest services offers password-enforced customer access to the Internet, while virtual access points provide logical segmentation of secure wireless network traffic and in-the-clear customer access.

Features

- SonicWave access points provide multi-gigabit wireless performance with greater signal range and reliability.
- SonicWave access points are auto-discovered and auto-configured by the central management gateway, easing deployment.
- SonicWave access points enable employees to securely access network resources from the wireless network using SSL VPN or WPA2.
- Virtual access points create secure segmentation between trusted and untrusted wireless users by allowing broadcast of up to eight unique SSIDs.

- Deep packet inspection technology detects and eliminates vulnerabilities and threats across all inbound and outbound wireless traffic.
- Key security services, such as application control and content filtering, are enforced over the wired and wireless LANs.
- SonicWall wireless guest services and lightweight hotspot messaging enable organizations to offer customers wireless Internet access from a customized authentication interface.
- SonicWave access points allow the dedication of one radio to rogue access detection while the other two support users, helping achieve and maintain regulatory compliance.

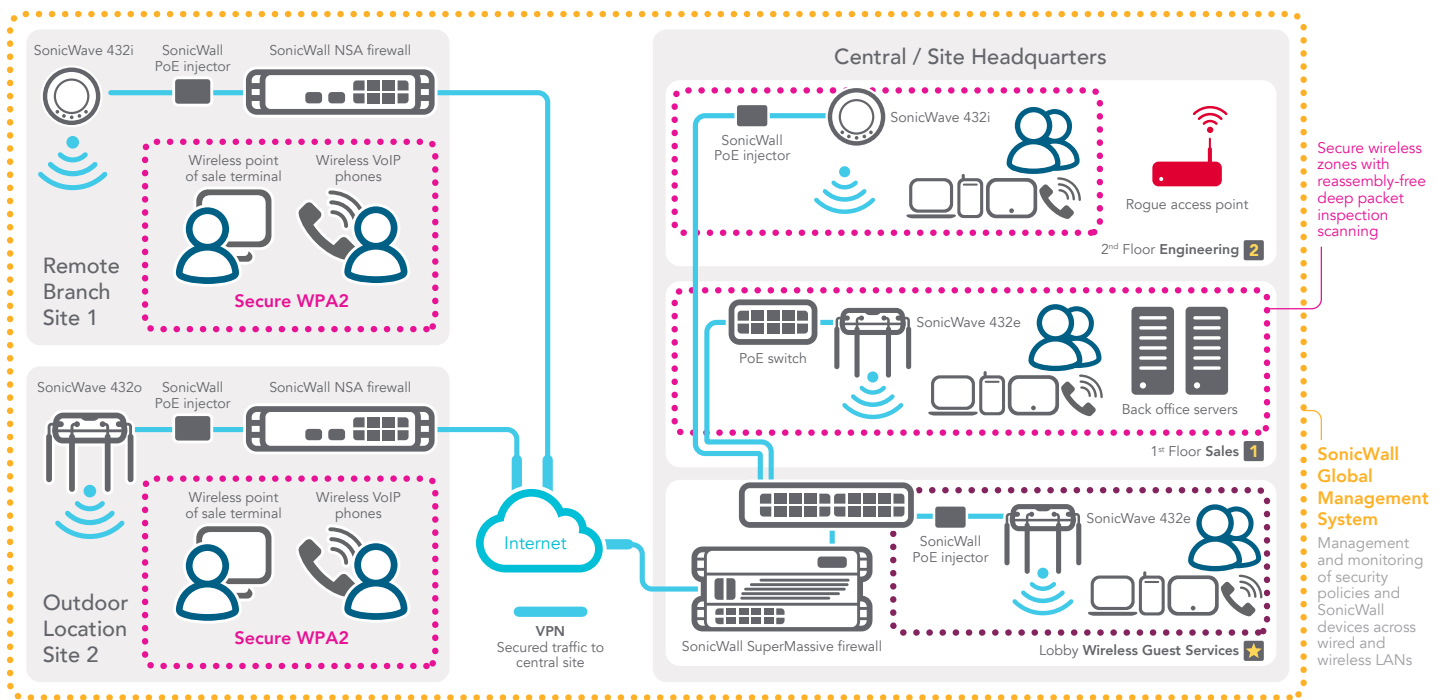
Partner Enabled Services

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.

Wireless Network Security scenarios

SonicWall Wireless Network Security is the ideal solution for organizations of all sizes and types looking to build a secure, high-speed wireless network. Deploying SonicWave 802.11ac Wave 2 access points in combination with a SonicWall next-generation firewall provides enterprise-class wireless performance and security for businesses, schools, hospitals and other organizations.

Distributed networks – Enterprise/campus deployments



Advanced Gateway Security Suite includes Capture Advanced Threat Protection, Gateway Security, Content Filtering and 24x7 support.

In distributed network environments that have a higher density of client associations, such as businesses with remote and branch offices, college campuses, school districts and healthcare provider networks, SonicWave wireless access points with 802.11ac Wave 2 technology provide superior wireless signal performance, range and quality. Employees, students and customers can securely access network resources on the wireless network using SSL VPN or WPA2. Using SonicWall GMS, administrators can centrally manage every SonicWall access point across the entire network, including creating and enforcing wireless policies, which eliminates the need for a separate wireless controller and reduces the total cost of ownership.

Features

- SonicWave access points provide multi-gigabit wireless performance with greater signal range and reliability.
- SonicWave access points are auto-discovered and auto-configured by the central management gateway, easing deployment.
- SonicWave access points enable employees to securely access network resources from the wireless network using SSL VPN or WPA2.
- Virtual access points create secure segmentation between trusted and untrusted wireless users by allowing broadcast of up to eight unique SSIDs.
- Deep packet inspection technology detects and eliminates vulnerabilities and threats across all inbound and outbound wireless traffic.
- Key security services, such as application control and content filtering, are enforced over the wired and wireless LANs.
- SonicWall wireless guest services and lightweight hotspot messaging enable organizations to offer customers wireless Internet access from a customized authentication interface.
- SonicWall GMS provides central management and monitoring of the wired and wireless LANs, including the firewall and all SonicWave access points that are connected to it.

SonicWave Series Specifications

| Hardware Specifications | SonicWave 432e | SonicWave 432i | SonicWave 432o |
|---|---|---|--|
| Location | Indoor | Indoor | Outdoor |
| Dimensions | 8.5 (D) x 2.0 (H) in 21.6 (D) x 5.1 (H) cm | 8.5 (D) x 2.0 (H) in 21.6 (D) x 5.1 (H) cm | 9.5 (W) x 9.3 (D) x 2.4 (H) in 24.1 (W) x 23.6 (D) x 6.1 (H) cm |
| Weight | 1.1 kg / 2.5 lbs | 1.0 kg / 2.2 lbs | 2.2 kg / 4.9 lbs |
| WEEE weight | 1.4 kg / 3.1 lbs | 1.2 kg / 2.6 lbs | 4.1 kg / 9.1 lbs |
| Shipping weight | 1.7 kg / 3.8 lbs | 1.5 kg / 3.3 lbs | 4.7 kg / 10.4 lbs |
| PoE injector | 802.3at | | |
| Maximum power consumption (W) | 18.8 W | 18.8 W | 21.2 W |
| Status indicators | Six (6) LED (WLAN/Link) (LAN/Link) Power, Test | | |
| Antennas | 4+4 (SMA 2.4 GHz + TNC 5 GHz) | 8 fully internal | 8 N-type dipole |
| Wired network ports | (1) 10/100/1000 auto-sensing RJ-45 for Ethernet and Power over Ethernet (PoE); (1) 100/1000/2.5 GbE auto-sensing RJ-45 for Ethernet; (1) RJ-45 console; (1) USB 2.0 (except 432o) | | |
| Accessories included | Wall/ceiling mount kit | | |
| Virtual access points | Up to 8 per access point | | |
| Chassis | UL 1024 plenum rated | | |
| Standards and compliance | SonicWave 432e | SonicWave 432i | SonicWave 432o |
| IEEE Standard | 802.11a/b/g/n/ac Wave 2 | | |
| Compliance | IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac, IEEE 802.11e, IEEE 802.11i, IEEE 802.3at, IEEE 802.3bz, WPA, TKIP, AES, IEEE 802.11r, IEEE 802.11k, IEEE 802.11v, IEEE 802.11w | | |
| Regulatory | FCC/ICES Class B, CE, RCM/ACMA, VCCI Class B, TELEC, BSMI, NCC, MSIP, ANATEL, Customs Union, RoHS (Europe/China), WEEE | | |
| MIMO | MU-MIMO 4x4 (4 streams) | | |
| Max/Recommended connected clients per radio | 128/30 | 128/30 | 128/30 |
| Safety | UL, cUL, TUV/GS, CB, CE, BSMI, Mexico CoC, Customs Union | | |
| Environmental | SonicWave 432e | SonicWave 432i | SonicWave 432o |
| Temperature range | 32 to 104°F, 0 to 40°C | | -40 to 140°F, -40 to 60°C |
| Humidity | 10 - 95%, non-condensing | | |
| Radio specifications | SonicWave 432e/432i/432o | | |
| Radios | Dual: 4x4 11n + 4x4 11ac MU-MIMO; Dedicated third scanning radio; Bluetooth Low Energy radio | | |
| Frequency bands | 802.11a: 5.180-5.825 GHz 802.11b/g: 2.412-2.472 GHz 802.11n: 2.412-2.472 GHz, 5.180-5.825 GHz 802.11ac: 2.412-2.472 GHz, 5.180-5.825 GHz | | |
| Operating channels | 802.11a: US and Canada 12, Europe 11, Japan 4, Singapore 4, Taiwan 4 802.11b/g: US and Canada 1-11, Europe 1-13, Japan 1-14 (14-802.11b only) 802.11n (2.4 GHz): US and Canada 1-11, Europe 1-13, Japan 1-13 802.11n (5 GHz): US and Canada 36-48/149-165, Europe 36-48, Japan 36-48, Spain 36-48/52-64 802.11ac: US and Canada 36-48/149-165, Europe 36-48, Japan 36-48, Spain 36-48/52-64 | | |
| Transmit output power | Based on the regulatory domain specified by the system administrator | | |
| Transmit power control | Supported | | |
| Data rates supported | 802.11a: 6,9,12,18,24,36,48,54 Mbps per channel 802.11b: 1,2,5,5,11 Mbps per channel 802.11g: 6,9,12,18,24,36,48,54 Mbps 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 Mbps 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, 1040, 1170, 1300, 1560, 1733.4 Mbps per channel | | |
| Modulation technology spectrum | 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: Orthogonal Frequency Division Multiplexing (OFDM) | | |
| Security | SonicWave 432e/432i/432o | | |
| Data encryption | WPA2, IPsec*, 802.11i, WPA, 64/128/152-bit WEP, TKIP, AES, SSL VPN** | | |
| Authentication | SonicWave 432e/432i/432o | | |
| Authentication | RADIUS, Active Directory, single sign-on (SSO) | | |

*When used with a SonicWall firewall

**When used with SonicWall Secure Mobile Access Series appliance

SonicWave Series PoE Injector Specifications

| Hardware Specifications | | SonicWave 432e/432i/432o |
|-------------------------------|---|--------------------------|
| Number of ports | 2: (1) Data In; (1) data and power out | |
| Dimensions | 1.69 (H) x 3.46 (W) x 6.54 (L) in; (43 (H) x 87.9 (W) x 166 (L) mm | |
| Weight | 0.91 lbs/(0.41 kg) | |
| WEEE weight | 1.2 lbs/(0.54 kg) | |
| Shipping weight | 1.28 lbs/(0.58 kg) | |
| Connectors | Shielded RJ-45, EIA 568A and 568B | |
| Status Indicators | LED indicator: Power On (yellow); Power supplied over Ethernet (green); Over current/short circuit (blinking green) | |
| Data rates | 10/100/1000 Mbps/2.5 GbE | |
| Power over LAN output | | SonicWave 432e/432i/432o |
| Pin assignment and polarity | 4/5 (+), 7/8 (-) | |
| Output power voltage | -55 VDC | |
| Maximum output power | 30 W | |
| Input power requirements | | SonicWave 432e/432i/432o |
| AC input voltage | 100 to 240 VAC | |
| AC frequency | 50 to 60 Hz | |
| AC input current | 1.5A at 100-240 VAC | |
| Standards and compliance | | SonicWave 432e/432i/432o |
| Regulatory compliance | CE, EN 55022 Class B (Emissions), FCC Part 15 Class B, EN 55024 (Immunity), VCCI | |
| Safety | UL/CUL 60950-1, GS Mark per IEC 60950-1 | |
| Environmental | RoHS, WEEE | |
| Environmental requirements | | SonicWave 432e/432i/432o |
| Operating ambient temperature | 14 to 113 °F, -10 to 40 °C | |
| Operating humidity | Maximum 90%, non-condensing | |
| Storage temperature | -4 to 158 °F, -20 to 70 °C | |
| Storage humidity | Maximum 95%, non-condensing | |

SonicPoint series

For organizations with a substantial investment in 802.11ac clients, the SonicWall SonicPoint series features dual radios, high-speed 802.11ac performance, 3x3 SU-MIMO and all the security advantages that SonicWall Wireless Network Security solutions offer.

SonicPoint Series Specifications

| Hardware Specifications | SonicPoint ACe | SonicPoint ACi | SonicPoint N2 |
|---|---|---|---|
| Location | Indoor | Indoor | Indoor |
| Dimensions | 6.9 (D) x 1.5 (H) in 17.5 (D) x 3.8 (H) cm | 6.9 (D) x 1.5 (H) in 17.5 (D) x 3.8 (H) cm | 6.9 (D) x 1.5 (H) in 17.5 (D) x 3.8 (H) cm |
| Weight | 0.53 kg / 1.2 lbs | 0.48 kg / 1.1 lbs | 0.53 kg / 1.2 lbs |
| WEEE weight | 1.2 kg / 2.6 lbs | 0.53 kg / 1.2 lbs | 0.74 kg / 1.6 lbs |
| Shipping weight | 1.74 kg / 3.8 lbs | 0.79 kg / 1.8 lbs | 1.1 kg / 2.4 lbs |
| PoE injector | 802.3at | | |
| Power supply | 802.3at + AC Adapter (12 v) | 802.3at PoE | 802.3at PoE |
| Maximum power consumption (W) | 15.2 W | 15.6 W | 13.7 W |
| Status indicators | Six (6) LED (WLAN/Link) (LAN/Link) Power, Test | | |
| Antennas | 3+3 (SMA 2.4 GHz + TNC 5 GHz) | 6 fully internal | 3+3 (SMA 2.4 GHz + TNC 5 GHz) |
| Wired network ports | (2) 10/100/1000 auto-sensing RJ-45 for Ethernet and Power over Ethernet (PoE); (1) RJ-45 console; (1) USB 2.0 | | |
| Accessories included | Wall/ceiling mount kit | | |
| Virtual access points | Up to 8 per SonicPoint | | |
| Chassis | UL 2043 plenum rated | | |
| Standards and compliance | SonicPoint ACe | SonicPoint ACi | SonicPoint N2 |
| IEEE Standard | 802.11a/b/g/n/ac | 802.11a/b/g/n/ac | 802.11a/b/g/n |
| Compliance | IEEE 802.11i, IEEE 802.3e, IEEE 802.3i, IEEE 802.3at, WPA/WPA2, TKIP, AES | | |
| Regulatory | FCC/ICES Class B, CE, RCM/ACMA, VCCI Class B, TELEC, BSMI, NCC, MSIP, ANATEL, Customs Union, RoHS (Europe/China), WEEE | | |
| MIMO | SU-MIMO 3x3 (3 streams) | | |
| Max/Recommended connected clients per radio | 128/30 | 128/30 | 128/30 |
| Certifications | WiFi, Dynamic Frequency Selection (DFS) | | |
| Safety | UL, cUL, TUV/GS, CB, CE, BSMI, Mexico CoC, Customs Union | | |
| Environmental | SonicPoint ACe/ACi/N2 | | |
| Temperature range | 32 to 104°F, 0 to 40°C | | |
| Humidity | 10 - 95%, non-condensing | | |
| Radio specifications | SonicPoint ACe | SonicPoint ACi | SonicPoint N2 |
| Radios | Dual: 3x3 11n + 3x3 11ac | | Dual: 3x3 11n + 3x3 11n |
| Frequency bands | 802.11a: 5.180-5.825 GHz 802.11b/g: 2.412-2.472 GHz 802.11n: 2.412-2.472 GHz, 5.180-5.825 GHz **802.11ac: 2.412-2.472 GHz, 5.180-5.825 GHz | | |
| Operating channels | 802.11a: US and Canada 12, Europe 11, Japan 4, Singapore 4, Taiwan 4 802.11b/g: US and Canada 1-11, Europe 1-13, Japan 1-14 (14-802.11b only) 802.11n (2.4 GHz): US and Canada 1-11, Europe 1-13, Japan 1-13 802.11n (5 GHz): US and Canada 36-48/149-165, Europe 36-48, Japan 36-48, Spain 36-48/52-64 **802.11ac: US and Canada 36-48/149-165, Europe 36-48, Japan 36-48, Spain 36-48/52-64 | | |
| Transmit output power | Based on the regulatory domain specified by the system administrator | | |
| Transmit power control | Supported | | |
| Data rates supported | 802.11a: 6,9,12,18,24,36,48,54 Mbps per channel 802.11b: 1,2,5,5,11 Mbps per channel 802.11g: 6,9,12,18,24,36,48,54 Mbps 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 Mbps 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 Mbps per channel | | |
| Modulation technology spectrum | 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: Orthogonal Frequency Division Multiplexing (OFDM) | | |

SonicPoint Series Specifications (continued)

| | |
|-----------------|--|
| Security | SonicPoint ACe/ACi/N2 |
| Data encryption | WPA2; IPSec, 802.11i, WPA; 64/128/152-bit WEP, TKIP, AES, SSL VPN* |
| Authentication | SonicPoint ACe/ACi/N2 |
| Authentication | RADIUS, Active Directory, single sign-on (SSO) |











*When used with SonicWall Secure Remote Access Series appliance

**Available on SonicPoint ACe and SonicPoint ACi only

SonicPoint Series PoE Injector Specifications

| | |
|---------------------------------------|--|
| Hardware Specifications | SonicPoint ACe/ACi/N2 |
| Number of ports | 2: (1) Data In; (1) data and power out |
| Dimensions | 1.22 (H) x 1.97 (W) x 6.30 (L) in; (31 (H) x 50 (W) x 160 (L) mm |
| Weight | 0.5 lbs/(0.3 kg) |
| WEEE weight | 0.85 lbs/(0.38 kg) |
| Shipping weight | 0.87 lbs/(0.4 kg) |
| Connectors | Shielded RJ-45, EIA 568A and 568B |
| Status Indicators | System indicator: AC power (yellow); User indicator: channel power active (green) |
| Data rates | 10/100/1000 Mbps |
| Power over LAN output | SonicPoint ACe/ACi/N2 |
| Pin assignment and polarity | 4/5 (+), 7/8 (-) |
| Output power voltage | -48 VDC |
| Maximum output power | 30 W |
| Input power requirements | SonicPoint ACe/ACi/N2 |
| AC input voltage | 100 to 240 VAC |
| AC frequency | 50 to 60 Hz |
| AC input current | 0.8A at 100-240 VAC |
| Standards and compliance | SonicPoint ACe/ACi/N2 |
| Regulatory compliance | CB, S Mark, RCM, ICES, cUL, CCC, CE, GS, BIS, PSE, MOM, EAC, KCC/MSIP, BSMI, UL, FCC |
| Electromagnetic emission and immunity | Class B emission level, EN 55022, CISPR 22, FCC Part 15 |
| Safety | IEC/EN/UL 60950-1 |
| Environmental | EU RoHS, China RoHS, EU WEEE, DOE Level VI, MEPS |
| Environmental requirements | SonicPoint ACe/ACi/N2 |
| Operating ambient temperature | 32 to 104 °F, 0 to 40 °C |
| Operating humidity | Maximum 90%, non-condensing |
| Storage temperature | -4 to 158 °F, -20 to 70 °C |
| Storage humidity | Maximum 95%, non-condensing |

Wireless Access Point and PoE Injector ordering information

| SonicWave Series | SKU | |
|---|-------------|---|
| SonicWave 432e with 1-Year Activation and 24x7 Support (Multi-Gigabit 802.3at PoE+) | 01-SSC-2498 |  |
| SonicWave 432e with 3-Year Activation and 24x7 Support (Multi-Gigabit 802.3at PoE+) | 01-SSC-2499 | |
| SonicWave 432e with 5-Year Activation and 24x7 Support (Multi-Gigabit 802.3at PoE+) | 01-SSC-2497 | |
| SonicWave 432e 4-Pack with 3-Year Activation & 24x7 Support (No PoE) | 01-SSC-2506 | |
| SonicWave 432e 8-Pack with 3-Year Activation & 24x7 Support (No PoE) | 01-SSC-2508 | |
| SonicWave 432i with 1-Year Activation and 24x7 Support (Multi-Gigabit 802.3at PoE+) | 01-SSC-2478 | |
| SonicWave 432i with 3-Year Activation and 24x7 Support (Multi-Gigabit 802.3at PoE+) | 01-SSC-2479 | |
| SonicWave 432i with 5-Year Activation and 24x7 Support (Multi-Gigabit 802.3at PoE+) | 01-SSC-2477 | |
| SonicWave 432i 4-Pack with 3-Year Activation & 24x7 Support (No PoE) | 01-SSC-2483 | |
| SonicWave 432i 8-Pack with 3-Year Activation & 24x7 Support (No PoE) | 01-SSC-2485 |  |
| SonicWave 432o with 1-Year Activation and 24x7 Support (No PoE) | 01-SSC-2510 | |
| SonicWave 432o with 3-Year Activation and 24x7 Support (No PoE) | 01-SSC-2512 | |
| SonicWave 432o with 5-Year Activation and 24x7 Support (No PoE) | 01-SSC-2511 | |
| SonicWave 432o 4-Pack with 3-Year Activation & 24x7 Support (No PoE) | 01-SSC-2514 | |
| SonicWave 432o 8-Pack with 3-Year Activation & 24x7 Support (No PoE) | 01-SSC-2516 | |
| SonicWave Multi-Gigabit 802.3at PoE+ Injector | 01-SSC-2450 |  |
| SonicWave 432o Sector Antenna S124-12 (Single Band 2.4 GHz) | 01-SSC-2461 |  |
| SonicWave 432o Sector Antenna S154-15 (Single Band 5 GHz) | 01-SSC-2462 | |
| SonicWave 432o Panel Antenna P254-07 (Dual Band) | 01-SSC-2465 |  |
| SonicWave 432o Panel Antenna P254-13 (Dual Band) | 01-SSC-2467 |  |
| SonicPoint Series | SKU | |
| SonicPoint ACe (Includes PoE Injector and one year of 24x7 support) | 01-SSC-0868 |  |
| SonicPoint ACe (Includes PoE Injector and three years of 24x7 support) | 01-SSC-0869 | |
| SonicPoint ACe (Includes PoE Injector and five years of 24x7 support) | 01-SSC-0870 | |
| SonicPoint ACe 4-Pack (Includes three years of 24x7 support for each access point) | 01-SSC-0877 | |
| SonicPoint ACe 8-Pack (Includes three years of 24x7 support for each access point) | 01-SSC-0878 | |
| SonicPoint ACi (Includes PoE Injector and one year of 24x7 support) | 01-SSC-0871 |  |
| SonicPoint ACi (Includes PoE Injector and three years of 24x7 support) | 01-SSC-0872 | |
| SonicPoint ACi (Includes PoE Injector and five years of 24x7 support) | 01-SSC-0873 | |
| SonicPoint ACi 4-Pack (Includes three years of 24x7 support for each access point) | 01-SSC-0879 | |
| SonicPoint ACi 8-Pack (Includes three years of 24x7 support for each access point) | 01-SSC-0880 |  |
| SonicPoint N2 (Includes PoE Injector and one year of 24x7 support) | 01-SSC-0874 | |
| SonicPoint N2 (Includes PoE Injector and three years of 24x7 support) | 01-SSC-0875 | |
| SonicPoint N2 (Includes PoE Injector and five years of 24x7 support) | 01-SSC-0876 | |
| SonicPoint N2 4-Pack (Includes three years of 24x7 support for each access point) | 01-SSC-0881 | |
| SonicPoint N2 8-Pack (Includes three years of 24x7 support for each access point) | 01-SSC-0882 |  |
| PoE Injector 802.3at Gigabit AC | 01-SSC-0716 | |

SonicWall wireless promo

The SonicWall wireless promo provides next-gen security solutions to protect against advanced threats across wired and wireless networks, making the transformation seamless for businesses and enterprises. Leverage powerful end-to-end security, visibility and control. Ultimately, benefit from superior performance and provide exceptional user experience.

Wireless promo ordering information

| Description | NOAM SKU | INTL SKU |
|---|-------------|-------------|
| SonicWall TZ500 TotalSecure Advanced, Secure Wireless (2 SonicPoint ACe Access Points with PoE) - 3 Year | 02-SSC-1010 | 02-SSC-1059 |
| SonicWall TZ600 TotalSecure Advanced, Secure Wireless (2 SonicPoint ACe Access Points with PoE) - 3 Year | 02-SSC-1046 | 02-SSC-1060 |
| SonicWall NSA 2600 TotalSecure Advanced, Secure Wireless (2 SonicPoint ACe Access Points with PoE) - 3 Year | 02-SSC-1047 | 02-SSC-1061 |
| SonicWall NSA 3600 TotalSecure Advanced, Secure Wireless (2 SonicPoint ACe Access Points with PoE) - 3 Year | 02-SSC-1048 | 02-SSC-1062 |
| SonicWall TZ300 TotalSecure Advanced, Secure Wireless (2 SonicPoint N2 Access Points with PoE) - 3 Year | 02-SSC-1074 | 02-SSC-1077 |
| SonicWall TZ400 TotalSecure Advanced, Secure Wireless (2 SonicPoint N2 Access Points with PoE) - 3 Year | 02-SSC-1075 | 02-SSC-1078 |
| SonicWall TZ500 TotalSecure Advanced, Secure Wireless (2 SonicPoint N2 Access Points with PoE) - 3 Year | 02-SSC-1076 | 02-SSC-1079 |
| SonicWall NSA 2600 TotalSecure Advanced, Secure Wireless (2 SonicWave 432e Access Points, No PoE) - 3 Year | 02-SSC-1050 | 02-SSC-1063 |
| SonicWall NSA 3600 TotalSecure Advanced, Secure Wireless (2 SonicWave 432e Access Points, No PoE) - 3 Year | 02-SSC-1051 | 02-SSC-1064 |
| SonicWall NSA 4600 TotalSecure Advanced, Secure Wireless (2 SonicWave 432e Access Points, No PoE) - 3 Year | 02-SSC-1052 | 02-SSC-1065 |
| SonicWall NSA 2600 TotalSecure Advanced, Secure Wireless (2 SonicWave 432i Access Points, No PoE) - 3 Year | 02-SSC-1053 | 02-SSC-1066 |
| SonicWall NSA 3600 TotalSecure Advanced, Secure Wireless (2 SonicWave 432i Access Points, No PoE) - 3 Year | 02-SSC-1054 | 02-SSC-1067 |
| SonicWall NSA 4600 TotalSecure Advanced, Secure Wireless (2 SonicWave 432i Access Points, No PoE) - 3 Year | 02-SSC-1055 | 02-SSC-1068 |
| SonicWall NSA 2600 TotalSecure Advanced, Secure Wireless (2 SonicWave 432o Access Points, No PoE) - 3 Year | 02-SSC-1056 | 02-SSC-1069 |
| SonicWall NSA 3600 TotalSecure Advanced, Secure Wireless (2 SonicWave 432o Access Points, No PoE) - 3 Year | 02-SSC-1057 | 02-SSC-1070 |
| SonicWall NSA 4600 TotalSecure Advanced, Secure Wireless (2 SonicWave 432o Access Points, No PoE) - 3 Year | 02-SSC-1058 | 02-SSC-1071 |
| SonicWall TZ300 PoE TotalSecure Advanced, Secure Wireless (2 SonicPoint N2 Access Points) - 3 Year | 02-SSC-1361 | 02-SSC-1369 |
| SonicWall TZ300 PoE TotalSecure Advanced, Secure Wireless (2 SonicPoint ACe Access Points) - 3 Year | 02-SSC-1362 | 02-SSC-1370 |
| SonicWall TZ600 PoE TotalSecure Advanced, Secure Wireless (2 SonicPoint ACe Access Points) - 3 Year | 02-SSC-1363 | 02-SSC-1371 |
| SonicWall TZ300 PoE TotalSecure Advanced, Secure Wireless (1 SonicWave 432i Access Point) - 3 Year | 02-SSC-1364 | 02-SSC-1372 |
| SonicWall TZ600 PoE TotalSecure Advanced, Secure Wireless (2 SonicWave 432i Access Points) - 3 Year | 02-SSC-1365 | 02-SSC-1373 |
| SonicWall TZ300 PoE TotalSecure Advanced, Secure Wireless (1 SonicWave 432e Access Point) - 3 Year | 02-SSC-1366 | 02-SSC-1374 |
| SonicWall TZ600 PoE TotalSecure Advanced, Secure Wireless (2 SonicWave 432e Access Points) - 3 Year | 02-SSC-1367 | 02-SSC-1375 |
| SonicWall TZ300 PoE TotalSecure Advanced, Secure Wireless (2 SonicPoint N2 Access Points) - 3 Year | 02-SSC-1368 | 02-SSC-1376 |

About Us

SonicWall has been fighting the cybercriminal industry for over 27 years, defending small, medium-sized businesses and enterprises worldwide. Our combination of products and partners has enabled an automated real-time breach detection and prevention solution tuned to the specific needs of the more than 500,000 organizations in over 215 countries and territories, so you can do more business with less fear. For more information, visit www.sonicwall.com or follow us on Twitter, LinkedIn, Facebook and Instagram.

SonicWall, Inc.

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Refer to our website for additional information.
www.sonicwall.com

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