
Overview

Figure 1: Airwall Gateway 175 Series



The Airwall Gateway 175 Series is a five-port gateway that connects and protects your edge devices. The Airwall Gateway forms a key component of the Airwall cybersecurity solution, which reduces the complexity, time, and cost associated with traditional networking and security methods.

The Airwall solution secures critical infrastructure using an identity-based, zero trust protocol. Use the Airwall solution to create private overlay networks based on encrypted tunnels and trusted cryptographic identities to cloak your devices and shrink your network attack surface.

Features

- A complete zero trust portfolio
- Securely connect anything, anywhere over any network
- Create private overlay networks on top of existing infrastructure, no need to rip and replace
- Easy to manage identity-driven policies
- Micro-segmentation with end-to-end encryption
- Reduces attack surface by 95% and complexity by 50-80%
- Based on Host Identity Protocol (HIP), an open IETF standard developed to fix the lack of mobility and security flaws of TCP/IP

- Single pane of glass management console, provides simple, scalable, extensible policy management between your devices

Technical specifications

Table 1: Technical specifications

Specification	Description
Physical and power specifications	
Ethernet ports	5 x 10/100/1000Base-T
Console port	1 x micro USB
USB ports	Not supported
Indicators	<ul style="list-style-type: none"> • 1 x fault LED • 1 x Wi-Fi LED • 1 x status LED • 1 x cellular LED
Power	<ul style="list-style-type: none"> • 12 V AC/DC power adapter, barrel plug, center positive • PoE: port 5, 15.4 W (802.3af class 3)
Temperature	<ul style="list-style-type: none"> • Operating: 0°C to 40°C (32°F to 104°F) • Storage: -45°C to 85°C (-49°F to 185°F)
Weight	Approximately 600 g (1.3 lbs)
Dimensions	Excluding Wi-Fi antennas and DIN rail mount: <ul style="list-style-type: none"> • Width: 210 mm (8.25 in.) • Depth: 115 mm (4.5 in.) • Height: 38 mm (1.5 in.)
Wireless LAN	
Modes	IEEE 802.11 a/b/g/n/ac
Modulation	DSSS, OFDM, DBPSK, DQPSK, CCK, 16-QAM, 64-QAM, 256-QAM
Frequency band	<ul style="list-style-type: none"> • 2.4 GHz ISM radio band • 5 GHz U-NII-1, U-NII-2A, U-NII-2C, U-NII-3 bands
Transmission rate	<ul style="list-style-type: none"> • 802.11b: 1, 2, 5.5, 11 Mbps • 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11n: Up to 150 Mbps-single • 802.11n: Up to 300 Mbps-2x2 MIMO • 802.11ac: Up to 192.6 Mbps (20MHz channel) • 802.11ac: Up to 400 Mbps (40MHz channel) • 802.11ac: Up to 866.7 Mbps (80MHz channel)

Table 1: Technical specifications

Specification	Description
Transmit power	<ul style="list-style-type: none"> 802.11a: 13 dBm ± 2 dBm @54 Mbps 802.11b: 17 dBm ± 2 dBm @11 Mbps 802.11g: 16 dBm ± 2 dBm @54 Mbps 802.11n: (2.4 GHz, 20 MHz, MCS7): 16 dBm ± 2 dBm 802.11n: (2.4 GHz, 40 MHz, MCS7): 14 dBm ± 2 dBm 802.11n: (5 GHz, 20 MHz, MCS7): 13 dBm ± 2 dBm 802.11n: (5 GHz, 40 MHz, MCS7): 12 dBm ± 2 dBm 802.11ac (20 MHz, MCS8): 13 dBm ± 2 dBm 802.11ac (40 MHz, MCS9): 12 dBm ± 2 dBm 802.11ac (80 MHz, MCS9): 10dBm ± 2dBm <p>① Note: Transmit power may be limited depending on regional SKU.</p>
Supported channels	<ul style="list-style-type: none"> 2.4 GHz US, CA, JP, EU: 1-11 2.4 GHz JP, EU only: 12, 13 5 GHz US, CA, JP, EU: 36, 38, 40, 42, 44, 46, 48, 52, 54, 56, 58, 60, 62, 64, 100, 102, 104, 106, 108, 110, 112, 116,132, 134, 136, 140 5 GHz US, JP, EU: 118, 120, 122, 124, 126, 128 5 GHz US, CA: 138, 149, 151, 153, 155, 157, 159, 161, 165,169, 173
Performance specifications	
Throughput	<ul style="list-style-type: none"> Encrypted: 84 Mbps, 12k PPS Bypass: 165 Mbps, 16k PPS
Latency	Measured at 20% maximum throughput, one direction. <ul style="list-style-type: none"> Encrypted: 8 ms Bypass: 6 ms
Maximum protected devices	40 local protected devices
Maximum peer Airwall endpoints	50 concurrent HIP tunnels

Regulatory and compliance

Table 2: Regulatory and compliance

Export compliance	
HS code	8517620020
Hardware origin	China
ECCN	5A002.a.1
CCATS	Pending
Software origin	United States
Regulatory approvals	
US	FCC
Canada	IC / ISED
EU	CE, LVD, EMCD, RED(w), RoHS, REACH, WEEE

Table 2: Regulatory and compliance

UK	UKCA
Regulatory standards	
Electromagnetic compatibility	<ul style="list-style-type: none"> • FCC Part 15B class B • CAN ICES-3 (B) / NMB-3 (B) • EN 55032 : 2015 • EN 55024: 2010 • EN 55035: 2017 • Draft ETSI EN 301 489-1 V2.2.1 (w) • Final Draft ETSI EN 301 489-3 V2.1.1 (w) • Draft ETSI EN 301 489-17 V3.2.0 (w)
Electrical safety	<ul style="list-style-type: none"> • IEC 60950-1:2005+A1:2009+A2:2013 • EN 60950-1:2006+A2:2013
Radio	<ul style="list-style-type: none"> • ETSI EN 300 328 V2.1.1 (w) • ETSI EN 301 893 V2.1.1 (w) • ETSI EN 300 440 V2.2.1 (w) • FCC Part 15C, Part 15E (w)
EMR / Health	EN 62311:2008 (w)

Single point of contact

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