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## 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

## Models

**Table 1: Airwall Gateway 175 models**

Part number	Model	Ethernet ports	Cellular	Serial
PLF-0130-01	Airwall 175e	5	No	2 USB - not currently supported
PLF-0132-01	Airwall 175g	5	Yes	2 USB - not currently supported

## Technical specifications

**Table 2: Technical specifications**

Specification	Description
<b>Physical and power specifications</b>	
Ethernet ports	5 x 10/100/1000Base-T
Console port	1 x micro USB
USB ports	2 USB - not currently supported
Indicators	<ul style="list-style-type: none"> <li>• 1 x fault LED</li> <li>• 1 x Wi-Fi LED</li> <li>• 1 x status LED</li> <li>• 1 x cellular LED</li> </ul>
Power	<ul style="list-style-type: none"> <li>• 12 V AC/DC power adapter, barrel plug, center positive</li> <li>• PoE: port 5, 15.4 W (802.3af class 3)</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>• Operating: 0°C to 40°C (32°F to 104°F)</li> <li>• Storage: -45°C to 85°C (-49°F to 185°F)</li> </ul>
Weight	Approximately 600 g (1.3 lbs)
Dimensions	Excluding Wi-Fi antennas and DIN rail mount: <ul style="list-style-type: none"> <li>• Width: 210 mm (8.25 in.)</li> <li>• Depth: 115 mm (4.5 in.)</li> <li>• Height: 38 mm (1.5 in.)</li> </ul>
<b>Wireless LAN</b>	
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"> <li>• 2.4 GHz ISM radio band</li> <li>• 5 GHz U-NII-1, U-NII-2A, U-NII-2C, U-NII-3 bands</li> </ul>

**Table 2: Technical specifications**

Specification	Description
Transmission rate	<ul style="list-style-type: none"> <li>802.11b: 1, 2, 5.5, 11 Mbps</li> <li>802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>802.11n: Up to 150 Mbps-single</li> <li>802.11n: Up to 300 Mbps-2x2 MIMO</li> <li>802.11ac: Up to 192.6 Mbps (20MHz channel)</li> <li>802.11ac: Up to 400 Mbps (40MHz channel)</li> <li>802.11ac: Up to 866.7 Mbps (80MHz channel)</li> </ul>
Transmit power	<ul style="list-style-type: none"> <li>802.11a: 13 dBm ± 2 dBm @54 Mbps</li> <li>802.11b: 17 dBm ± 2 dBm @11 Mbps</li> <li>802.11g: 16 dBm ± 2 dBm @54 Mbps</li> <li>802.11n: (2.4 GHz, 20 MHz, MCS7): 16 dBm ± 2 dBm</li> <li>802.11n: (2.4 GHz, 40 MHz, MCS7): 14 dBm ± 2 dBm</li> <li>802.11n: (5 GHz, 20 MHz, MCS7): 13 dBm ± 2 dBm</li> <li>802.11n: (5 GHz, 40 MHz, MCS7): 12 dBm ± 2 dBm</li> <li>802.11ac (20 MHz, MCS8): 13 dBm ± 2 dBm</li> <li>802.11ac (40 MHz, MCS9): 12 dBm ± 2 dBm</li> <li>802.11ac (80 MHz, MCS9): 10dBm ± 2dBm</li> </ul> <p>① <b>Note:</b> Transmit power may be limited depending on regional SKU.</p>
Supported channels	<ul style="list-style-type: none"> <li>2.4 GHz US, CA, JP, EU: 1-11</li> <li>2.4 GHz JP, EU only: 12, 13</li> <li>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</li> <li>5 GHz US, JP, EU: 118, 120, 122, 124, 126, 128</li> <li>5 GHz US, CA: 138, 149, 151, 153, 155, 157, 159, 161, 165, 169, 173</li> </ul>
<b>Performance specifications</b>	
Throughput	<ul style="list-style-type: none"> <li>Encrypted: 84 Mbps, 12k PPS</li> <li>Bypass: 165 Mbps, 16k PPS</li> </ul>
Latency	<p>Measured at 20% maximum throughput, one direction.</p> <ul style="list-style-type: none"> <li>Encrypted: 8 ms</li> <li>Bypass: 6 ms</li> </ul>
Maximum protected devices	40 local protected devices
Maximum peer Airwall endpoints	50 concurrent HIP tunnels

## Regulatory and compliance

**Table 3: Regulatory and compliance**

<b>Export compliance</b>	
HS code	8517620020
Hardware origin	China

**Table 3: Regulatory and compliance**

ECCN	5A002.a.1
CCATS	Pending
Software origin	United States
<b>Regulatory approvals</b>	
US	FCC
Canada	IC / ISED
EU	CE, LVD, EMCD, RED(w), RoHS, REACH, WEEE
UK	UKCA
<b>Regulatory standards</b>	
Electromagnetic compatibility	<ul style="list-style-type: none"> <li>• FCC Part 15B class B</li> <li>• CAN ICES-3 (B) / NMB-3 (B)</li> <li>• EN 55032 : 2015</li> <li>• EN 55024: 2010</li> <li>• EN 55035: 2017</li> <li>• Draft ETSI EN 301 489-1 V2.2.1 (w)</li> <li>• Final Draft ETSI EN 301 489-3 V2.1.1 (w)</li> <li>• Draft ETSI EN 301 489-17 V3.2.0 (w)</li> </ul>
Electrical safety	<ul style="list-style-type: none"> <li>• IEC 60950-1:2005+A1:2009+A2:2013</li> <li>• EN 60950-1:2006+A2:2013</li> </ul>
Radio	<ul style="list-style-type: none"> <li>• ETSI EN 300 328 V2.1.1 (w)</li> <li>• ETSI EN 301 893 V2.1.1 (w)</li> <li>• ETSI EN 300 440 V2.2.1 (w)</li> <li>• FCC Part 15C, Part 15E (w)</li> </ul>
EMR / Health	EN 62311:2008 (w)

## Single point of contact

APAC	EU	UK	NA/SA
JOHNSON CONTROLS C/O CONTROLS PRODUCT MANAGEMENT NO. 32 CHANGJIANG RD NEW DISTRICT WUXI JIANGSU PROVINCE 214028 CHINA	JOHNSON CONTROLS VOLTAWEG 20 6101 XK ECHT THE NETHERLANDS	JOHNSON CONTROLS TYCO PARK GRIMSHAW LANE MANCHESTER M40 2WL UNITED KINGDOM	JOHNSON CONTROLS 5757 N GREEN BAY AVE. GLENDALE, WI 53209 USA

## Contact info

Contact your local Johnson Controls representative: [www.johnsoncontrols.com/locations](http://www.johnsoncontrols.com/locations)

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