

Airwall 110 Series

**Hyper-Secure Networking
For The Distributed Edge**

Purpose-Built Hardware

The 110 Series is purpose-built hardware designed to protect, connect, and manage critical assets no matter where they are in the world. It is an industrial-grade, small form factor device with secure connectivity options that can be leveraged across IoT, critical infrastructure, and geographically distributed systems.

For the Distributed Edge

The 110 Series is part of Airwall's zero-trust enforcement model, ensuring unbreakable micro-segmentation and secure remote access across an organization's distributed network. It extends Airwall's device invisibility, secure services isolation, and rapid provisioning or revocation of trust out to the distributed edge.

Part of the Airwall Solution

The 110 Series is part of the Airwall Solution, which can be deployed across on-premise, remote, virtual, or cloud environments. Span multiple existing VLANs, subnets, and cross networking boundaries while reducing network complexity and enforcing a Software-Defined Perimeter (SDP) across all connected systems and devices.

**110g****110e**

- 1 micro USB console port
- 2 ethernet ports
- Global cellular (110g)
- 48 Mbps, 18k PPS (encrypted throughput)
- 60 Mbps, 22k PPS (bypass throughput)

Use Case Scenarios



- Secure and segment machine-to-machine communication
- Protect IoT devices, legacy systems and machines, and devices that can't protect themselves
- Protect critical infrastructure with rapid provisioning and cost effective remote support

Physical and Power Specifications

Ethernet Ports

2 x 10/100 Mbps RJ-45 ports, auto MDI/MDIX

Console Port

1 x micro USB

Controls

1 x multi-purpose button (actuated with pin)

Indicators

1x Power LED
 1x Status LED
 1x Map / Conductor LED
 1x Diagnostic Mode LED
 1x Cellular Link LED (110g)
 1x SIM card LED (110g)

Fault Relay

1x Relay indicating a fault condition when open
 Contact ratings:
 Maximum contact voltage: 30 VDC
 Maximum switched power rating: 60W
 Maximum switched current: 2A
 Mode: Normally-Open

CPU

NXP i.MX6ULL at 792 MHz
 Single core ARM Cortex-A7

Memory / Storage

1GB DDR3 RAM
 4 GB eMMC

Trusted Platform Module

TPM 2.0

DC Power Input

DC 9-48V, 0.78A-0.15A
 Over-voltage protection
 Reverse-polarity protection

Storage Temperature

-45° to 85° C (-49° to 185° F)

Operating Temperature Range

-40° to 68° C (-40° to 154° F)

Operating Humidity

5% to 95% (non-condensing)

Dimensions

31 mm W x 100 mm D x 125 mm H
 1.22 in W x 3.94 in D x 4.92 in H

Weight

DIN-rail, desk-mount

Mounting

290g (10.23 oz)

Serial Interfaces

Physical layer standards

RS-232 with RTS/CTS
 RS-485
 RS-422

Connector

2 x DE-9M

Protocols

Modbus RTU, telnet, raw

Cellular Radio (Airwall 110g)

SIM card

1x micro (3FF) Push-Push SIM card slot

3G

DC-HSDPA Category 24. 42 Mbps DL max
 HSUPA Category 5. 5.76 Mbps UL max
 24 dBm + 1 dB/-3dB maximum transmit power

3G bands

B1, B2, B4, B5, B6, B8, B19

4G

LTE Category 4: 1.4 - 20 MHz bandwidth
 FDD 150 Mbps DL, 50 Mbps UL max
 TDD 130 Mbps DL, 30 Mbps UL max
 23 dBm ± 2dB maximum transmit power

4G LTE FDD bands

B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19,
 B20, B25, B26, B28

4G LTE TDD bands

B38, B39, B40, B41

Performance Specifications

Throughput

Encrypted: 30 Mbps, 4k PPS
 Bypass: 60 Mbps, 6k PPS

Latency

Measured at 20% maximum throughput, one direction.
 Encrypted: 12.3 ms
 Bypass: 6.3 ms

Cellular performance

Performance depends on a variety of network and location-specific factors.
 LTE Cat 4 (150 Mbps downlink / 50 Mbps uplink)

Max Protected Devices

15 local protected devices

Max peer Airwall endpoints

40 concurrent HIP tunnels

Regulatory Approvals by Country

United States

FCC
cULus
PTCRB
AT&T
Verizon (planned)

Canada

IC / ISED
cULus

Japan

VCCI
TELEC (110g)
JATE (110g)

Australia

ACMA TLN 2015 (110g)
ACMA RLN 2014 (110g)
ACMA EMR LN 2014 (110g)
ACMA EMC LN 2017

New Zealand

EMC Standards Notice 2019
Radio Standards Notice 2020 (110g)

European Union

LVD, EMCD, RED(110g), RoHS, REACH, WEEE

Regulatory Standards Applied

Electromagnetic Compatibility

FCC Part 15B class A
CAN ICES-3 (A) / NMB-3 (A)
VCCI-CISPR 32 Class A
EN 55032: 2015/AC: 2016 class A
EN 55024: 2010/A1: 2015
EN 55035: 2017
EN 61000-3-2: 2014
EN 61000-3-3: 2013
ETSI EN 301 489-1 V2.2.3 (110g)
Draft ETSI EN 301 489-52 V1.1.0 (110g)

Electrical Safety

IEC 62368-1 2014 (Second Edition)
UL 62368-1 Second Edition
CAN/CSA C22.2 No. 62368-1-14
AS/NZS 62368.1.2018
J-62368-1 (H30)
EN 62368-1:2014 + A11:2017

Radio

FCC Part 22H, Part 24E, and Part 27 (110g)
ISED RSS130, RSS132, RSS133, RSS139, RSS199 (110g)
JATE (110g)
TELEC (110g)
AS/CA S042.1: 2018 (110g)
AS/CA S042.4: 2018 (110g)
ETSI EN 301 908-1 V11.11 (110g)
ETSI EN 301 908-2 V11.1.2 (110g)
ETSI EN 301 908-13 V11.1.2 (110g)
PTCRB NAPRD 03 (110g)

EMR / Health

AS/NZS 2772.2: 2016 (110g)
ARPANSA RPS3 (110g)
EN 62311: 2008 (110g)

Compliance Marks

cULus, FCC, RCM, CE, Giteki (110g), VCCI

Export Compliance

HS Code

8517620020

Hardware Origin

Taiwan

ECCN

5A002.a.1

CCATS

Pending. Reference number: Z1647589

Software Origin

United States

Schedule a call with our experts to learn more.

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