

ECW5410-L

Indoor Access Point

Concurrent Dual-Band 11ac Wave 2 indoor AP



Product Overview

The ECW5410-L is a concurrent dual-band 802.11ac Wave 2 high-density access point. Featuring dual 4x4 Multi-User MIMO (MU-MIMO) radios, the ECW5410-L can simultaneously support up to 600 Mbps and 1.73 Gbps data rates for both 2.4GHz and 5GHz bands, far surpassing the throughput of the latest 802.11ac Wave 1 access points. It provides a Gigabit LAN port for Ethernet-capable network devices and that can be used for targeted marketing campaigns. The combination 802.11ac Wave 2 MU-MIMO technology and 4x4 spatial streams makes the ECW5410-L a top choice for high-density environments such as stadiums, arenas, and conference rooms.

Highlights

Wi-Fi

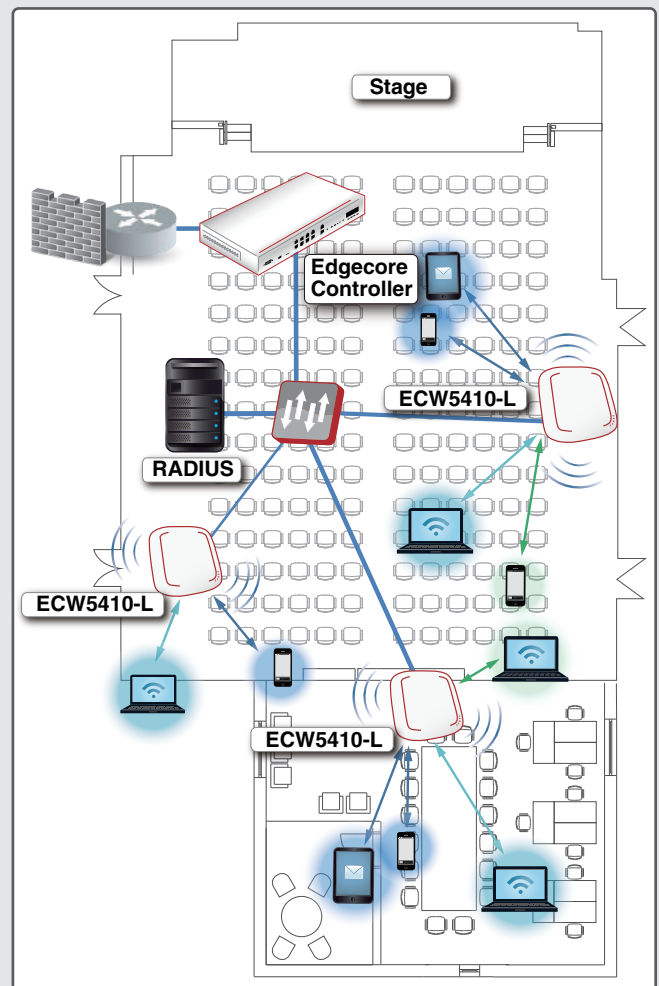
- Concurrent dual-band 2.4 GHz and 5 GHz
- 802.11ac 4x4 MU-MIMO supporting up to 2.3 Gbps data rate
- Support up to 32 ESSIDs
- Enterprise-grade wireless security

Physical

- Wall and ceiling mountable
- High-density Wi-Fi deployment
- 802.3af PoE LAN port

Management with controller

- Captive portal and guest provisioning
- Fast Layer 2/Layer 3 roaming
- User-based access management
 - Bandwidth control
 - Firewall policies
 - Routing policies
- Wi-Fi monetization



Indoor Access Point

Features

Physical

Power:

- DC Input: 12 V/2.5 A (power adapter optional)
- PoE: 802.3at compliant (PoE injector optional)

Dimensions: 19.0 cm (L) x 19.0 cm (W) x 3.3 cm (H)

Weight: 0.61 kg (1.34 lb)

Interfaces:

- Uplink: 1 x 10/100/1000BASE-T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE

- LAN: 1 x 10/100/1000BASE-T Ethernet, Auto MDIX, RJ-45 with 802.3af PoE out

- Console: 1 x RJ-45 port

- USB: 1 x USB 2.0 port

LED Indicator: Power/2G-WiFi/5G-WiFi/ETH 1 (PoE)/ETH 2

Buttons: Reset/Restart

Environmental Conditions:

- Operating Temperature: 0°C (32°F) to 45°C (113°F)

- Operating Humidity: 5% to 95% non-condensing

Power Consumption: 22.5 W max.

Antenna:

- Type: 5 x Built-in PIFA (4 x 2.4 GHz and 5 GHz)

- Gain: 3 dBi (2.4 GHz), 5 dBi (5 GHz)

Mounting: Wall/ceiling mount (mounting kit included)

Wi-Fi

Standards:

- 802.11a/b/g/n/ac; Wave 2
- Concurrent dual-band 2.4 and 5 GHz

Supported data rates:

- 802.11b: 1, 2, 5.5, 11 Mbps
- 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
- 802.11n: 6.5 – 144 Mbps (20 MHz)
- 802.11n: 13.5 – 300 Mbps (40 MHz)
- 802.11ac: 6.5 – 173.4 Mbps (20 MHz)
- 802.11ac: 13.5 – 400 Mbps (40 MHz)
- 802.11ac: 29.3 – 866.6 Mbps (80 MHz)

Radio Chains: 4 x 4

Spatial Streams: 4 ; MU-MIMO support

Output Power:

- 2.4 GHz: Up to 18 dBm*1
- 5 GHz: Up to 20 dBm*1

Channelization: 20 MHz, 40 MHz, 80 MHz

Frequency Band: 2.412 – 2.472 GHz, 5.180 – 5.825 GHz

Operating Channels:

- 2.4 GHz: 1 – 11 (US), 1 – 13 (Europe), 1 – 13 (Japan)
- 5 GHz*2: 36 – 165 (US), 36 – 140 (Europe), 36 – 140 (Japan)

ESSIDs: Up to 16 per radio (32 total)

Certifications: FCC (United States), CE (Europe)

Performance

Physical Data Rate:

- Up to 600 Mbps (2.4 GHz)
- Up to 1733 Mbps (5 GHz)

Concurrent Users: Up to 256 (128 on 2.4 GHz, 128 on 5 GHz)

Quality of Service

Wireless QoS (802.11e/WMM)

DSCP (802.1p)

Airtime fairness

Band steering

Multicast to unicast conversion

Optimal client filtering

*1: Maximum power is limited by local regulatory requirements

*2: Some channels are restricted by local regulatory requirements

Management

Deployment:

- Standalone
- Tunneled management by controller
- IPv4 and IPv6 compatible

Configuration:

- Web user interface (HTTP/HTTPS)
- SNMP v1, v2c, v3

Security

Wireless security:

- WEP
- WPA/WPA2 Mixed (TKIP/AES Mixed)
- WPA2-Personal (AES)
- WPA2-Enterprise (AES)

VLAN tagging (802.1Q)

Station isolation

DHCP snooping

Layer-2 firewall

Mobility/Roaming

Layer 2/Layer 3 fast roaming

Receive Sensitivity

Operating Mode	Data Rate	Receive Sensitivity (dBm)
802.11b	1 Mbps	-97
	11 Mbps	-89
802.11a	6 Mbps	-90
	54 Mbps	-73
802.11g	6 Mbps	-91
	54 Mbps	-74
802.11n (HT20)	MCS0	-90
	MCS7	-70
	MCS8	-90
	MCS15	-70
802.11n (HT40)	MCS0	-87
	MCS7	-68
	MCS8	-87
	MCS15	-68
802.11ac (VHT20)	MCS0	-90
	MCS8	-67
802.11ac (VHT40)	MCS0	-87
	MCS9	-61
802.11ac (VHT80)	MCS0	-84
	MCS9	-58

Features

Warranty

Please check www.edge-core.com for the warranty terms in your country.

For More Information

To find out more about Edgecore Networks Corporation products and solutions, visit www.edge-core.com.

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