

# ECW5211-L

## Indoor Access Point

### Concurrent Dual-Band 11ac Wave 2 Indoor AP



#### Product Overview

The ECW5211-L is an enterprise-grade, concurrent dual-band 802.11ac Wave 2 indoor access point, designed specifically for high-density Wi-Fi environments. The ECW5211-L features two 2x2:2 MU-MIMO radios that can each transmit data to multiple clients simultaneously, and together have a combined data rate of up to 1.2 Gbps. Besides, the ECW5211-L's integrated Bluetooth Low Energy (BLE) radio also enables new value-added applications such as indoor location tracking, iBeacon, and other location-based services.

When used with an Edgecore controller, additional value-added applications such as bandwidth control, user authentication, and captive portals can be used to provide an ideal solution for all types of businesses. In addition, one AP can be associated to two controllers for redundancy purpose.

#### Highlights

##### Wi-Fi

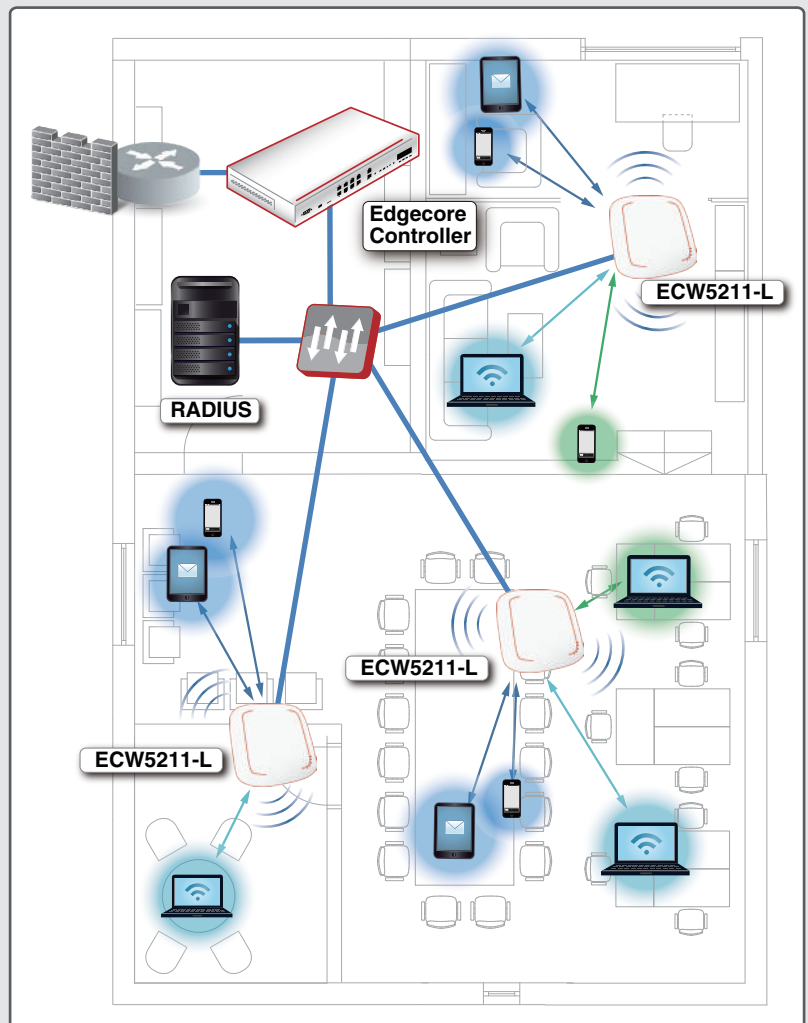
- Concurrent dual-band 2.4 GHz and 5 GHz
- 802.11ac 2x2 MU-MIMO supporting up to 1.2 Gbps data rate
- Support up to 32 ESSIDs
- Enterprise-grade wireless security

##### Physical

- Wall and ceiling mountable
- High-density Wi-Fi deployment
- 802.3af Power over Ethernet (PoE)
- 802.3ab Gigabit LAN Ethernet port
- Bluetooth Low Energy (BLE)

##### 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
- Automatic firmware update when connected to EWS1000 controller



Indoor Access Point

## Features

### Physical

Power:

- DC Input: 12 V/1.0 A (power adapter optional)
- PoE: 802.3af compliant (PoE injector optional)

Dimensions: 14.7 cm (L) x 14.7 cm (W) x 3.5 cm (H)

Weight: 0.36 g (0.78 lb)

Interfaces:

- Uplink: 1 x 10/100/1000BASE-T Ethernet, Auto MDIX,
- RJ-45 with 802.3af PoE
- LAN: 1 x 10/100/1000BASE-T Ethernet, Auto MDIX, RJ-45,
- compliant with 802.3ab
- USB: 1 x USB 2.0 port

LED Indicator: Power/2G-WiFi/5G-WiFi/LAN

Buttons: Reset/Restart

Environmental Conditions:

- Operating Temperature: 0°C (32°F) to 50°C (122°F)
- Operating Humidity: 5% to 95% non-condensing

Power Consumption: 9.0 W max.

Antenna:

- Type: 3 x built-in PIFA (2 x 2.4 GHz and 5 GHz, 1 x Bluetooth Low Energy)
- Gain: 3 dBi (2.4 GHz), 5 dBi (5 GHz), 3 dBi (BLE)

Mounting:

- Wall/Ceiling mount (Mounting kit included)
- Anti-theft: 1 Kensington Lock hole on the metal part of housing

### Wi-Fi

Standards:

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

Spatial Streams: 2 ; MU-MIMO support

Output Power:

- 2.4 GHz: Up to 22 dBm\*1
- 5 GHz: Up to 22 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\*: 36 – 165 (US), 36 – 140 (Europe), 36 – 140 (Japan)

ESSIDs: Up to 16 per radio (32 total)

Certifications:

- Wi-Fi CERTIFIED (Wi-Fi Alliance)
- FCC (United States)
- CE (Europe)

### Performance

Physical Data Rate:

- Up to 300 Mbps (2.4 GHz)
- Up to 867 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

### Management

Deployment:

- Standalone
- CAPWAP tunnel
- IPv4 and IPv6 compatible

Configuration:

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

### Security

Wireless Security:

- 802.11i
- WEP
- WPA/WPA2 Mixed (TKIP/AES Mixed)
- WPA2-Personal (AES)
- WPA2-Enterprise (AES)

32 VLANs in 802.1Q (VLAN ID 1~4000)

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	-95
	11 Mbps	-86
802.11a	6 Mbps	-87
	54 Mbps	-70
802.11g	6 Mbps	-89
	54 Mbps	-72
802.11n (HT20)	MCS0	-88
	MCS7	-67
	MCS8	-88
	MCS15	-67
802.11n (HT40)	MCS0	-85
	MCS7	-66
	MCS15	-66
802.11ac (VHT20)	MCS0	-86
	MCS8	-64
802.11ac (VHT40)	MCS0	-83
	MCS9	-61
802.11ac (VHT80)	MCS0	-81
	MCS9	-57

\*1: Maximum power is limited by local regulatory requirements

\*2: Some channels are restricted by local regulatory requirements

## Features

### Feature Highlights

- AP can be connected to the controller through encrypted tunnel over Layer 3 networks (distinct, routable)
- CAPWAP protocol is used for the tunnel between the AP and EWS1000 controller
- Supports at least 32 VLANs in the IEEE 802.1Q standard with VLAN ID between 1 (one) and 4000 (four thousand); each SSID can be associated with a VLAN ID independently
- Automatic firmware upgrade when connected to WLAN controller
- Fully supports the IEEE802.11i, WPA2, WPA and AES protocols
- Supports at least 64 (up to 128 on 2.4G and up to 128 on 5G) clients connected to an AP simultaneously
- The number of customers per AP is not limited or restricted by licenses

### Warranty

Please check [www.edge-core.com](http://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](http://www.edge-core.com).

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