

# 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, ECW5211-L's integrated Bluetooth Low Energy (BLE) 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.

#### Highlights

##### Wi-Fi

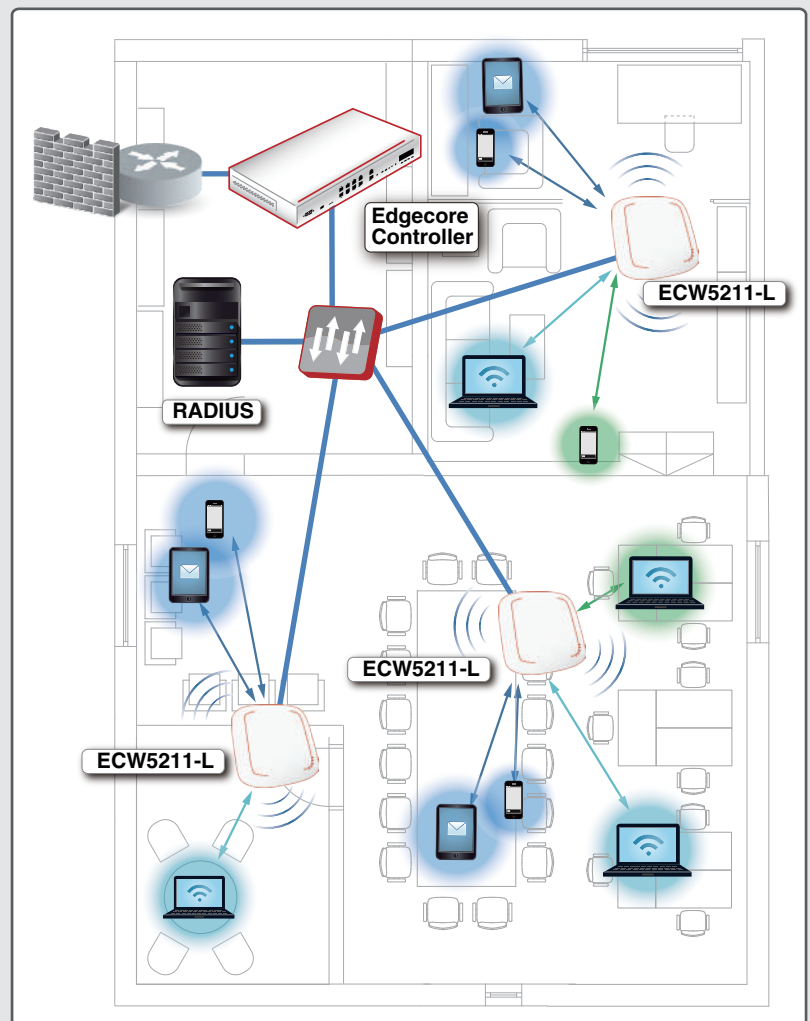
- Concurrent dual-band 2.4 GHz and 5 GHz
- 802.11ac 2x2 MU-MIMO supporting up to 1.2 Gbps data rate
- Support up to 32 ESSIDs
- Enterprise-grade wireless security

##### Physical

- Wall and ceiling mountable
- High-density Wi-Fi deployment
- 802.3af Power over Ethernet (PoE)
- 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



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
- 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)

### 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\*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 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

\*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	-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
	MCS8	-85
	MCS15	-66
802.11ac (VHT20)	MCS0	-86
	MCS8	-64
802.11ac (VHT40)	MCS0	-83
	MCS9	-61
802.11ac (VHT80)	MCS0	-81
	MCS9	-57

## Features

### 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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