

# ECWO5211-L

## Outdoor Access Point

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



#### Product Overview

The ECWO5211-L is an enterprise-grade, concurrent dual-band 802.11ac Wave 2 outdoor access point, designed specifically to withstand harsh weather conditions with an IP68-rated, rust-resistant plastic housing for outdoor and industrial environments. The ECWO5211-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. The ECWO5211-L's integration with Bluetooth Low Energy (BLE) also enables new value-added applications such as location tracking, iBeacon, and other location-based services. Besides, with a built-in GPS receiver, IT administrators can easily keep track of the location of all ECWO5211-Ls deployed, simplifying the maintenance task and adding a new potential of location-related 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

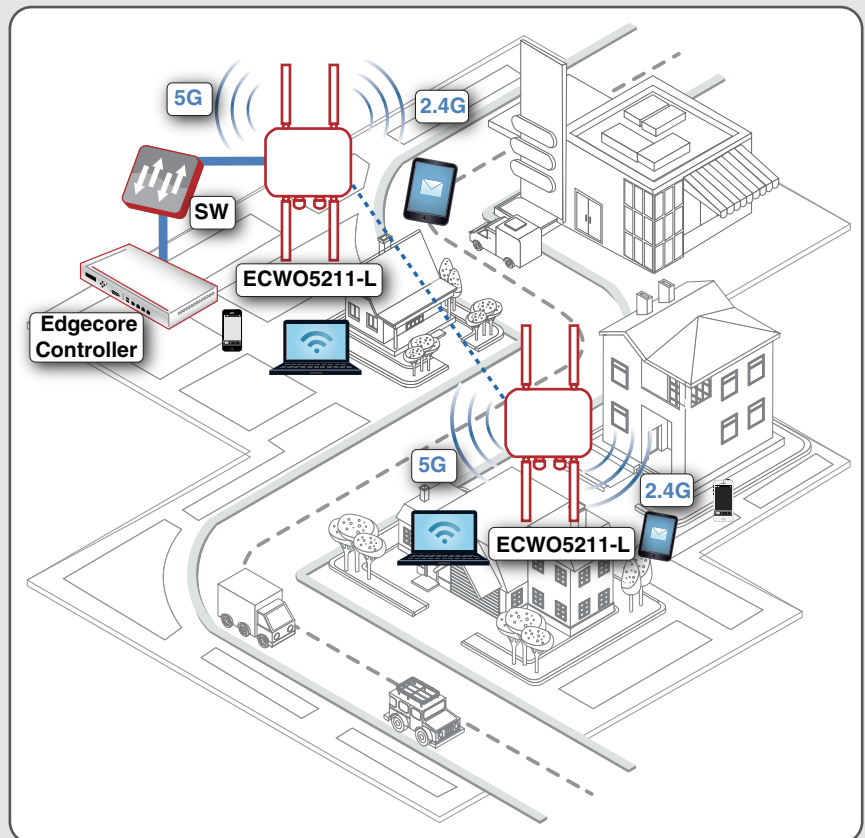
- Concurrent dual-band 2.4 GHz and 5 GHz
- 802.11ac 2x2 MU-MIMO supporting up to 1.2 Gbps data rate
- Support up to 32 ESSIDs
- Enterprise-grade wireless security

##### Physical

- Wall, hose clamp, and uniaxial mountable
- IP68 weatherproof plastic housing
- Industrial temperature range
- 802.3at Power over Ethernet (PoE)
- Bluetooth Low Energy (BLE)
- Built-in Global Positioning System (GPS)

##### 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



Outdoor Access Point

## Features

### Physical

Power: PoE: 802.3at compliant or 48 V/0.5 A passive PoE injector  
 Dimensions: 25.0 cm (L) x 20.0 cm (W) x 8.0 cm (H)

1.53 kg (3.37 lbs) (Including antennas)

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

LED Indicator: Power/LAN1/LAN2/2.4 GHz/5 GHz

Environmental Conditions:

- Operating Temperature: -40°C (-40°F) to 65°C (149°F)
- Operating Humidity: 10% to 95% non-condensing

Power Consumption: 20 W max.

Antenna:

- Type: 4 x external N-type connectors (2 x 2.4 GHz, 2 x 5 GHz), 1 x built-in PIFA (1 x BLE), 1 x built-in patch (1 x GPS)
- Gain: 5 dBi (2.4 GHz), 7 dBi (5 GHz), 2 dBi (BLE)

Mounting: Pole mount hose clamp

### 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: 2 x 2

Spatial Streams: 2 ; MU-MIMO support

Output Power:

- 2.4 GHz: Up to 23 dBm\*1
- 5 GHz: Up to 23 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), 100 – 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	-96
	11 Mbps	-90
802.11a	6 Mbps	-92
	54 Mbps	-75
802.11g	6 Mbps	-93
	54 Mbps	-71
802.11n (HT20)	MCS0	-93
	MCS7	-71
	MCS8	-93
	MCS15	-71
802.11n (HT40)	MCS0	-92
	MCS7	-70
	MCS8	-90
	MCS15	-70
802.11ac (VHT20)	MCS0	-92
	MCS8	-69
802.11ac (VHT40)	MCS0	-90
	MCS9	-65
802.11ac (VHT80)	MCS0	-86
	MCS9	-61

## 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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