

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

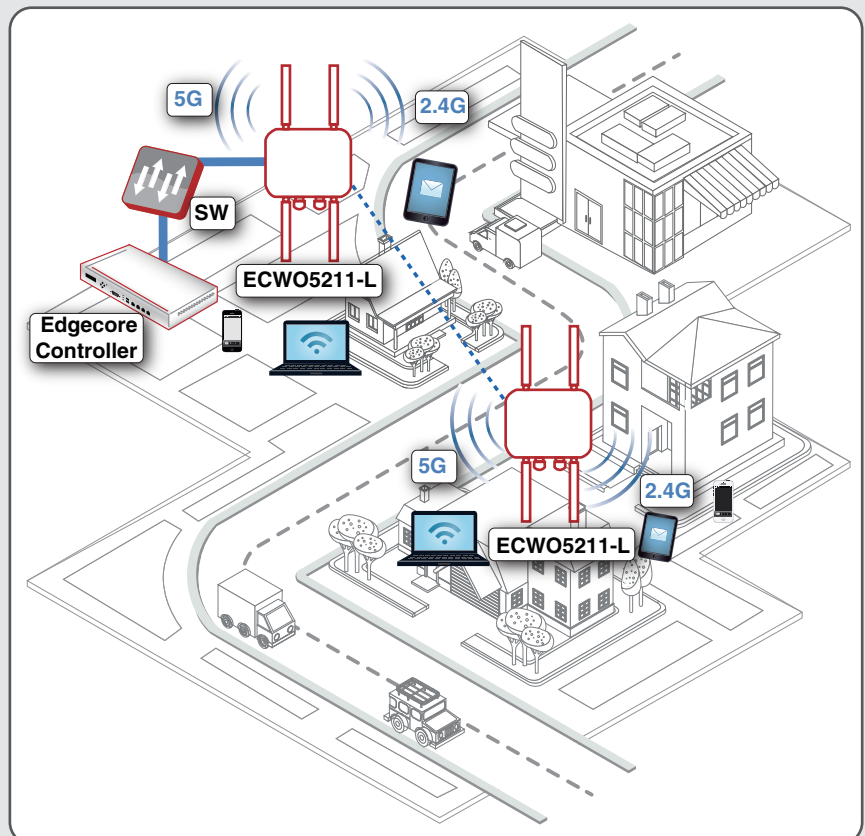
- Concurrent dual-band 2.4 GHz and 5 GHz
- 802.11ac 2x2 MU-MIMO supporting up to 1.2 Gbps data rate
- Support up to 32 ESSIDs
- Enterprise-grade wireless security

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)

Weight: 1.49 kg (3.28 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/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: Wall mount/pole mount hose clamp/uniaxial bracket

Protective vent plug

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 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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