ECWO5211-L

OUTDOOR ACCESS POINT

INTRODUCTION

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

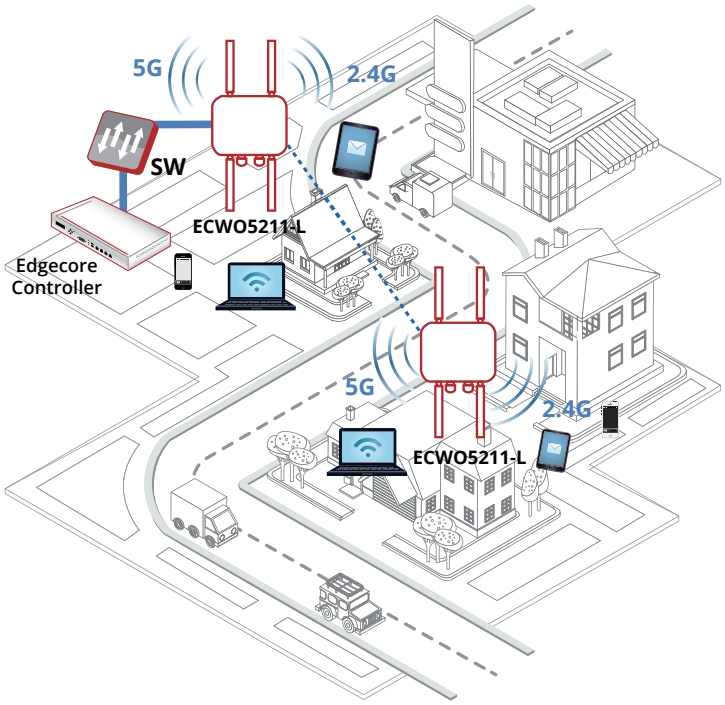
- Concurrent Dual-Band 2.4 & 5 GHz
- 802.11ac 2x2 MU-MIMO supporting up to 1.2 Gbps data rate
- Support up to 32 ESSIDs.
- Enterprise-Grade Wireless Security

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 & Guest Provisioning
- Fast Layer 2/Layer 3 Roaming
- User-based Access Management
  - Bandwidth Control
  - Firewall Policies
  - Routing Policies
- Wi-Fi Monetization



SPECIFICATIONS

PHYSICAL	
Power	• PoE: 802.3at compliant or 48V / 0.5A passive PoE injector (PoE injector optional)
Dimensions	• 25.0 cm (L) x 20.0 cm (W) x 8.0 cm (H)
Weight	• 1.53 kg (3.37 lbs) (Including antennas)
Interfaces	• LAN1: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE • LAN2: 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	• 20W 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 & 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
RF Output Power*1	• 2.4 GHz: Up to 23 dBm*2 • 5 GHz: Up to 23 dBm*2
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*3: 36 – 165 (US), 36 – 140 (Europe), 100 – 140 (Japan)
ESSIDs	• Up to 16 per radio (32 total)
Certifications	• FCC (United States), CE (Europe), NCC&BSMI (Taiwan)

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)

*1: RF output power aggregates across MIMO chains and doesn't contain antenna gain
*2: Maximum power is limited by local regulatory requirements
*3: Some channels are restricted by local regulatory requirements

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 • Tunneled management by Controller • IPv4 & 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	-92
	MSC15	-70
802.11ac (VHT20)	MCS0	-92
	MCS8	-69
802.11ac (VHT40)	MCS0	-90
	MCS9	-65
802.11ac (VHT80)	MCS0	-86
	MCS9	-61

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