

ECW05211-L

OUTDOOR ACCESS POINT



<u>INTRODUCTION</u>

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.

<u>HIGHLIGHTS</u>

WI-FI

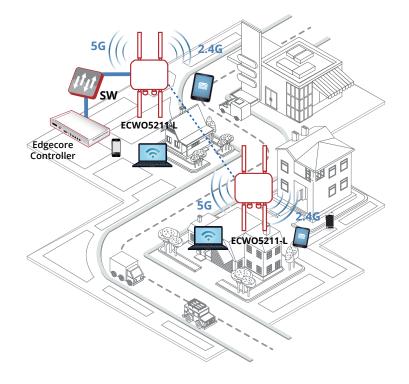
- Concurrent Dual-Band 2.4 & 5 GHz
- 802.11ac 2x2 MU-MIMO supporting up to 1.2 Gbps data rate
- Support up to 32 ESSIDs.
- Enterprise-Grade Wireless Security

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 	
Interraces	 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	
	IP68 Rating	
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	
	+ 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)	
Supported Data Rates	• 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	
RF Output Power	+ 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

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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 LLDP
Configuration	Web User Interface (HTTP/ HTTPS)SNMP v1, v2c, v3

SECURITY	
	+ WEP
Wireless Security	 WPA/WPA2 Mixed (TKIP/AES Mixed)
wireless security	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	
Hotspot 2.0	

CEIVE SENSITIVITY		
Operating Mode	Data Rate	Receive Sensitivity (dBm)
802.11b	1 Mbps	-96
	11 Mbps	-90
202.112	6 Mbps	-92
802.11a	54 Mbps	-75
202.11	6 Mbps	-93
802.11g	54 Mbps	-71
	MCS0	-93
002 11× /UT20\	MCS7	-71
802.11n (HT20)	MCS8	-93
	MCS15	-71
	MCS0	-92
902 11 × (UT40)	MCS7	-70
802.11n (HT40)	MCS8	-92
	MSC15	-70
902 11 as (VIIIT20)	MCS0	-92
802.11ac (VHT20)	MCS8	-69
802.11ac (VHT40)	MCS0	-90
002.11ac (V11140)	MCS9	-65
802.11ac (VHT80)	MCS0	-86
502.11dc (V11100)	MCS9	-61