

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

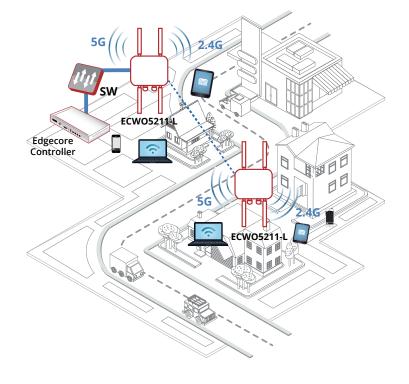
- Concurrent Dual-Band 2.4 & 5 GHz
- 802.11ac 2x2 MU-MIMO supporting up to 1.2 Gbps data rate
- Support up to 32 ESSIDs.
- Enterprise-Grade Wireless Security

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
Dimensions	+ 25.0 cm (L) x 20.0 cm (W) x 8.0 cm (H)
Weight	+ 1.53 kg (3.37 lbs) (Including antennas)
list aufo as a	Uplink: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 with 802.3af PoE
Interfaces	 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)
Environmental Conditions	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	
Ctandarda	• 802.11a/b/g/n/ac; Wave 2
Standards	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
Output Power	• 2.4 GHz: Up to 23 dBm*1
Output Power	• 5 GHz: Up to 23 dBm*1
	+ 20 MHz
Channelization	+ 40 MHz
	+ 80 MHz
Fuerus au Dand	+ 2.412 – 2.472 GHz
Frequency Band	+ 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)

^{*1:} Maximum power is limited by local regulatory requirements *2: Some channels are restricted by local regulatory requirements

Station Isolation **DHCP Snooping** Layer-2 Firewall

QUALITY OF SERVICE
Wireless QoS (802.11e/WMM)
DSCP (802.1p)
Airtime Fairness
Band Steering
Multicast to Unicast Conversion
Optimal Client Filtering

SECURITY	
Wireless Security	* WEP
	 WPA/WPA2 Mixed (TKIP/AES Mixed)
	WPA2-Personal (AES)
	WPA2-Enterprise (AES)
VLAN Tagging (802.1	Q)

MANAGEMENT	
Deployment	 Standalone Tunneled management by Controller IPv4 & IPv6 compatible
Configuration	Web User Interface (HTTP/ HTTPS)SNMP v1, v2c, v3

MOBILITY/ROAMING
Layer 2/Layer 3 Fast Roaming

VE SENSITIVITY		
Operating Mode	Data Rate	Receive Sensitivity (dBm)
802.11b	1 Mbps	-96
802.110	11 Mbps	-90
902.112	6 Mbps	-92
802.11a	54 Mbps	-75
002.11~	6 Mbps	-93
802.11g	54 Mbps	-71
	MCS0	-93
002.44 (UT20)	MCS7	-71
802.11n (HT20)	MCS8	-93
	MCS15	-71
	MCS0	-92
002.44 (UTA0)	MCS7	-70
802.11n (HT40)	MCS8	-92
	MSC15	-70
002 44 (/////720)	MCS0	-92
802.11ac (VHT20)	MCS8	-69
902 11ac (//HT40)	MCS0	-90
802.11ac (VHT40)	MCS9	-65
802.11ac (VHT80)	MCS0	-86
002.11dC (VITTOU)	MCS9	-61