

ECWO5212-L

OUTDOOR ACCESS POINT



INTRODUCTION

The Edgecore ECWO5212-L is a concurrent dual-band 802.11ac outdoor access point ideal for providing outdoor Wi-Fi coverage and network access to equipment in remote locations such as IP video surveillance cameras. Featuring two 2x2 radios, the ECWO5212-L can simultaneously support up to 300 and 867 Mbps data rates in the 2.4 and 5 GHz bands respectively.

On top of that, with the standalone per user and per WDS bandwidth management features, ECWO5212-L can manage the user and WDS bandwidth more precisely and efficiently. When ECWO5212-L is deployed and centrally managed by Edgecore EWS Controller, additional value-added applications such as user authentication, and captive portals can be used to provide an ideal solution for all types of businesses.

HIGHLIGHTS

WI-FI

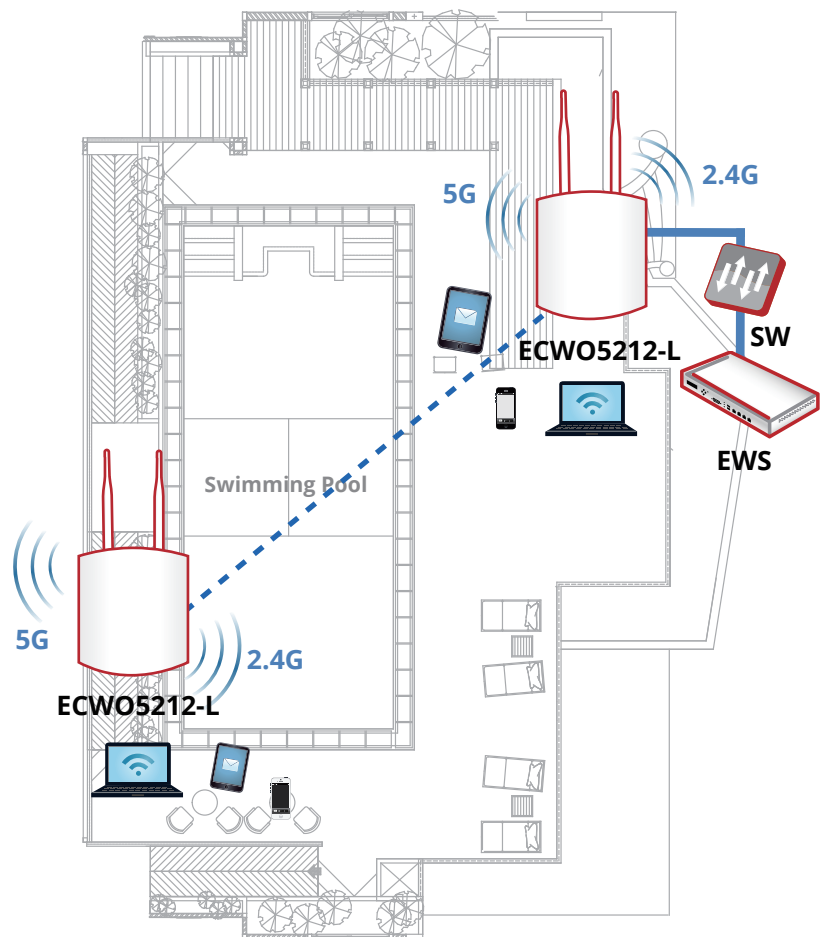
- Concurrent Dual-Band 2.4 & 5 GHz
- Supporting up to 1.2 Gbps data rate
- Support up to 32 ESSIDs.
- Enterprise-grade Wireless Security

PHYSICAL

- Simple installation with pole/wall mount
- Compact IP68 enclosure
- 802.3at PoE Uplink Port
- External Antennas with SMA connector (5G)

MANAGEMENT WITH EDGECORE EWS CONTROLLER

- Captive Portal & Guest Provisioning
- Fast Layer 2/Layer 3 Roaming
- Role-based Access Management
 - Firewall Policies
 - Routing Policies
- Wi-Fi Monetization



SPECIFICATIONS

PHYSICAL	
Power	<ul style="list-style-type: none"> ♦ PoE: 802.3at compliant (PoE injector optional)
Dimensions	<ul style="list-style-type: none"> ♦ 16.3 cm (L) x 16.3 cm (W) x 4.7 cm (H)
Weight	<ul style="list-style-type: none"> ♦ 0.35 kg (0.77 lbs)
Interfaces	<ul style="list-style-type: none"> ♦ 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
LED Indicator	<ul style="list-style-type: none"> ♦ 5G/2.4G/Power
Buttons	<ul style="list-style-type: none"> ♦ Restart/Reset
Environmental Conditions	<ul style="list-style-type: none"> ♦ Operating Temperature: -10°C (14°F) to 50°C (122°F) ♦ Operating Humidity: 10% to 90% non-condensing ♦ IP68 Rating
Power Consumption	<ul style="list-style-type: none"> ♦ 16 W max.
Antenna	<ul style="list-style-type: none"> ♦ 2.4 GHz: Gain: 3 dBi ♦ 5 GHz: Optional (SMA Connector)
Mounting	<ul style="list-style-type: none"> ♦ Wall/Pole mount (Hose Clamp included)
WI-FI	
Standards	<ul style="list-style-type: none"> ♦ 802.11 a/b/g/n/ac ♦ Concurrent dual-band 2.4 & 5 GHz
Supported Data Rates	<ul style="list-style-type: none"> ♦ 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	<ul style="list-style-type: none"> ♦ 2 x 2
Spatial Streams	<ul style="list-style-type: none"> ♦ 2
RF Output Power*1	<ul style="list-style-type: none"> ♦ 2.4 GHz: Up to 26 dBm*2 ♦ 5 GHz: Up to 25 dBm*2
Channelization	<ul style="list-style-type: none"> ♦ 20 MHz ♦ 40 MHz ♦ 80 MHz
Frequency Band	<ul style="list-style-type: none"> ♦ 2.412 – 2.472 GHz ♦ 5.180 – 5.825 GHz
Operating Channels	<ul style="list-style-type: none"> ♦ 2.4 GHz: 1 – 11 (US), 1 – 13 (Europe), 1 – 13 (Japan) ♦ 5 GHz*3: 36 – 165 (US), 36 – 140 (Europe), 36 – 140 (Japan)
ESSIDs	<ul style="list-style-type: none"> ♦ Up to 16 per radio (32 total)
Certifications	<ul style="list-style-type: none"> ♦ FCC (United States), CE (Europe), NCC (Taiwan)
PERFORMANCE	
Physical Data Rate	<ul style="list-style-type: none"> ♦ Up to 300 Mbps (2.4 GHz) ♦ Up to 867 Mbps (5 GHz)
Concurrent Users	<ul style="list-style-type: none"> ♦ Up to 384 (256 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

- Bandwidth Management
 - ◆ Per User
 - ◆ WDS
- 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 Edgecore EWS 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

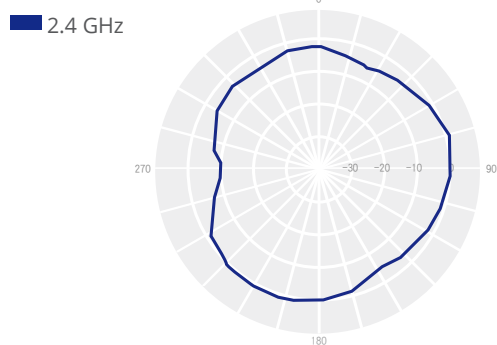
- Fast Layer 2/Layer 3 Roaming

RECEIVE SENSITIVITY

Operating Mode	Data Rate	Receive Sensitivity (dBm)
802.11b	1 Mbps	-90
	11 Mbps	-80
802.11a	6 Mbps	-90
	54 Mbps	-72
802.11g	6 Mbps	-87
	54 Mbps	-73
802.11n (HT20)	MCS0	-84
	MCS7	-66
	MCS8	-65
	MCS15	-65
802.11n (HT40)	MCS0	-84
	MCS7	-66
	MCS8	-62
	MCS15	-64
802.11ac (VHT20)	MCS0	-89
	MCS8	-69
802.11ac (VHT40)	MCS0	-86
	MCS9	-60
802.11ac (VHT80)	MCS0	-83
	MCS9	-57

SIGNAL COVERAGE PATTERN

H-plane (Horizontal)



E-plane (Vertical)

