

ECW212L



# Cloud6 4x4 Lite

# Cloud Lite 802.11ax 4×4 Dual Band Indoor **Access Point**

# **Overview**

EnGenius Cloud Managed Wi-Fi 6 4X4 Access Point ECW212L is a cost-effective model designed for small businesses. It support dual-concurrent 802.11ax architecture, delivering speeds up to 1,148 Mbps on the 2.4GHz and 2,400 Mbps on the 5 GHz band, providing high-performance connectivity. With seamless integration into the EnGenius Cloud platform, it offers easy management and robust security through WPA3, making it an ideal solution for businesses seeking enterprise-grade performance at an affordable price.



# Features & Benefits

- Wi-Fi 6 Technology: Dual concurrent 802.11ax architecture with backward compatibility for legacy Wi-Fi devices.
- High-Performance Speeds: Delivers 2,400 Mbps (5GHz) and 1,148 Mbps (2.4GHz) throughput.
- Advanced Security: Integrated WPA3 and WPA2-AES authentication protection.
- Professional-Grade Antenna: 5 dBi integrated 4x4 antenna system.

- Versatile Connectivity: 2.5GE PoE+ port for power and high-speed networking.
- Cloud Management: Free local and remote management via EnGenius Cloud.
- Flexible Deployment: Multiple operating modes with AP, STA, and Mesh support.

# **Technical Specifications**

#### Technical Specifications

#### **Standards**

IEEE 802.11ax on 2.4 GHz

IEEE 802.11ax on 5 GHz

Backward compatible with 802.11a/b/g/n/ac

IEEE 802.3 u/ab

#### Antenna

4 x 2.4 GHz: 5 dBi(Integrated Omni-Directional)

4 x 5 GHz: 5 dBi(Integrated Omni-Directional)

#### **Physical Interfaces**

1 x 2.5GE Port (PoE+)

1 x DC Jack

1 x Reset Button

#### **LED** indicators

1 x Power

1 x LAN

1 x 2.4 GHz

1 x 5 GHz

#### **Power Source**

Power-over-Ethernet: 802.3at Input

12VDC /2A Power Adapter

#### **Maximum Power Consumption**

17W

#### Wireless & Radio Specifications

#### **Operating Frequency**

Dual-Radio Concurrent 2.4 GHz & 5 GHz

#### **Operation Modes**

Managed mode: AP, AP Mesh, Mesh

#### Frequency Radio

2.4 GHz: 2400 MHz ~ 2482 MHz

5 GHz: 5150 MHz  $\sim$  5250 MHz, 5250 MHz  $\sim$  5350 MHz, 5470 MHz  $\sim$  5725 MHz, 5725 MHz  $\sim$  5850 MHz

#### **Transmit Power**

Up to 23 dBm on 2.4 GHz

Up to 23 dBm on 5 GHz

(Maximum power is limited by regulatory domain)

#### **Radio Chains**

4 × 4:4

#### SU-MIMO

Four (4) spatial stream Single User (SU) MIMO for up to 1148 Mbps wireless data rate with HE40 bandwidth to a 4x4 wireless client device under the 2.4GHz radio.

Four (4) spatial stream Single User (SU) MIMO for up to 2400 Mbps wireless data rate with HE80 to a 4x4 wireless device under the 5GHz radio.

#### MU-MIMO

Four (4) spatial streams Multiple (MU)-MIMO up to 2,400 Mbps wireless data rate for transmitting to four (4) streams MU-MIMO 11ax capable wireless client devices under 5GHz simultaneously.

Four (4) spatial streams Multiple (MU)-MIMO up to 1,148 Mbps wireless data rate for transmitting to four (4) streams MU-MIMO 11ax capable wireless client devices under 2.4GHz simultaneously.

#### **Supported Data Rates**

802.11ax:

2.4 GHz: 9 to 1,148 (MCS0 to MCS11, NSS = 1 to 4)

5 GHz: 18 to 2,400 (MCS0 to MCS11, NSS = 1 to 4)

802.11b: 1, 2, 5.5, 11

802.11a/g: 6, 9, 12, 18, 36, 48, 54

802.11n: 6.5 to 600 (MCS0 to MCS31)

802.11ac: 6.5 to 1,733 (MCS0 to MCS9, NSS = 1 to 4)

#### **Supported Radio Technologies**

802.11ax: Orthogonal Frequency Division Multiple Access(OFDMA)

802.11a/g/n/ac: Orthogonal Frequency Division Multiple (OFDM)

802.11b: Direct-sequence spread-spectrum (DSSS)

#### Channelization

802.11ax supports high efficiency throughput (HE) -HE 20/40/80 MHz

802.11ac supports very high throughput (VHT) -VHT 20/40/80 MHz

802.11n supports high throughput (HT) -HT 20/40 MHz

802.11n supports high throughput under the 2.4GHz radio -HT40 MHz (256-QAM)

802.11n/ac/ax packet aggregation: A-MPDU, A-SPDU

#### **Supported Modulation**

802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM

802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM

802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM

802.11b: BPSK, QPSK, CCK

#### **Max Concurrent User**

128 per radio

#### **Client Balancing**

Yes

#### **Auto Channel Selection**

Yes

#### Management Features

#### Multiple BSSID

8 SSIDs on both 2.4GHz and 5GHz bands

#### **VLAN Tagging**

Supports 802.1q SSID-to-VLAN Tagging

Cross-Band VLAN Pass-Through

Management VLAN

#### **Spanning Tree**

Supports 802.1d Spanning Tree Protocol

#### QoS (Quality of Service)

Compliance With IEEE 802.11e Standard

WMM

#### SNMP

v1, v2c, v3

#### MIB

I/II, Private MIB

#### **Fast Roaming**

802.11r/k

# **Technical Specifications**

Wireless Security
WPA2-PSK
WPA3-PSK
Hide SSID in Beacons
Wireless STA (Client) Connected List
Client Isolation
Client Access Control
Interface
IPv4
Local Web Access
Supports HTTP or HTTPS

#### Environmental & Physical

#### **Temperature Range**

Operating: 32°F~104°F (0 °C~40 °C)
Storage: -40 °F~176 °F (-40 °C~80 °C)

#### **Humidity (non-condensing)**

Operating: 90% or less

Storage: 90% or less

#### Dimensions & Weight

#### Weight

570g

#### **Dimensions**

205 x 205 x 33 mm

#### Package Contents

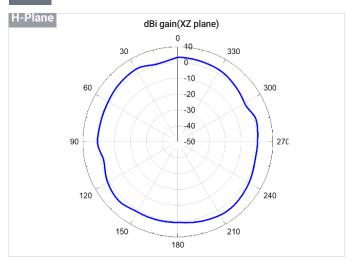
- 1 ECW212L Indoor Access Point
- 1 Ceiling Mount Base (9/16" Trail)
- 1 Ceiling Mount Base (15/16" Trail)
- 1 Ceiling and Wall Mount Screw Kit
- 1 Product Card

#### Compliance

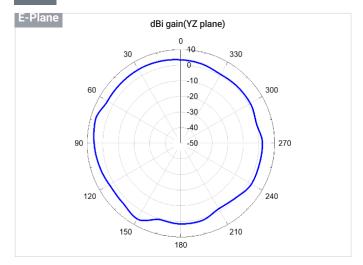
# Regulatory Compliance FCC CE IC UKCA UK PSTI AU

# **Antennas Patterns**

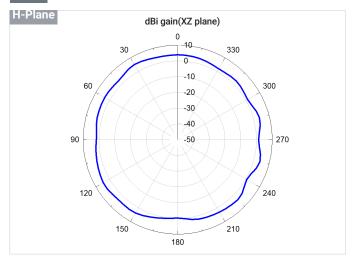
# 2.4GHz



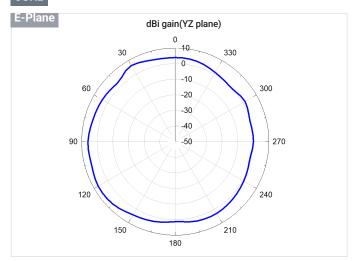
# 2.4GHz



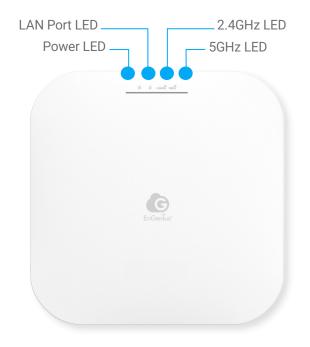
# 5GHz



# 5GHz



# **Hardware Overviews**







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