



## Cloud6 2x2 Lite

# Cloud Lite 802.11ax 2x2 Managed Dual Band Wireless Indoor Access Point

### Overview

EnGenius Cloud Lite 802.11ax 2x2 Managed Dual Band Wireless Indoor Access Point ECW210L offers advanced 802.11ax technology, granting users incredibly speedy and efficient performance with a maximum theoretical speed of 574 Mbps on the 2.4GHz frequency and an incredible 2,400Mbps on 5GHz frequency! Furthermore, it's safeguarded by top-tier WPA3/WPA2PSK AES encryption protocols for unparalleled security.



### Features & Benefits

- Dual concurrent 802.11ax architecture & backward-compatible with 11ac/a/b/g/n client devices
- WPA3 & WPA2-AES authentication support
- 5 dBi integrated 2x2 antenna
- Supports up to 2,400 Mbps in the 5GHz frequency band & 574 Mbps in the 2.4GHz frequency band
- Support 5GHz DFS channels
- Local and remote management over EnGenius cloud without fees
- 1x GE PoE port for easy placement up to 328 feet from a power source
- Choice of AP, STA and Mesh modes to meet your management & deployment requirements

# Technical Specifications

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### 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

IEEE 802.3az

### Antenna

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

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

### Physical Interfaces

1 x GE Port (PoE)

1 x DC Jack

1 x Reset Button

### LED indicators

1 x Multi-color LED

### Power Source

Power-over-Ethernet: 802.3af Input

12VDC /1.5A Power Adapter

### Maximum Power Consumption

10.7W

## 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 ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725 MHz ~ 5850 MHz

### Transmit Power

Up to 21 dBm on 2.4 GHz

Up to 21 dBm on 5 GHz

(Maximum power is limited by regulatory domain)

### Radio Chains

2 x 2:2

### SU-MIMO

Two (2) spatial stream Single User (SU) MIMO for up to 574 Mbps wireless data rate with HE40 bandwidth to a 2x2 wireless client device under the 2.4GHz radio.

Two (2) spatial stream Single User (SU) MIMO for up to 2,400 Mbps wireless data rate with HE160 to a 2x2 wireless device under the 5GHz radio.

### MU-MIMO

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

Two (2) spatial streams Multiple (MU)-MIMO up to 574 Mbps wireless data rate for transmitting to two (2) streams MU-MIMO 11ax capable wireless client devices under 2.4GHz simultaneously.

### Supported Data Rates

802.11ax:

2.4 GHz: 9 to 574 (MCS0 to MCS11, NSS = 1 to 2)

5 GHz: 18 to 2400 (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 300 Mbps (MCS0 to MCS15)

802.11ac: 6.5 to 867 Mbps (MCS0 to MCS9, NSS = 1 to 2)

### 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 20/40/80/160 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

### DFS Certification

FCC/CE/IC

### 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

# Technical Specifications

## Fast Roaming

802.11r/k

## Wireless Security

WPA2-PSK

WPA3-PSK

Hide SSID in Beacons

Wireless STA (Client) Connected List

Client Isolation

Client Access Control

## Interface

IPv4, IPv6

## 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

380g

### Dimensions

160 x 160 x 30 mm

### Package Contents

1 – ECW210L 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

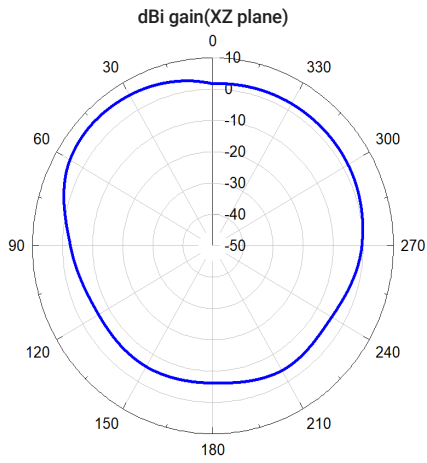
CE

IC

# Antennas Patterns

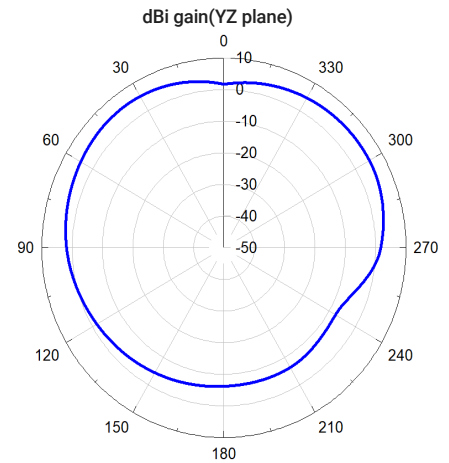
2.4GHz

H-Plane



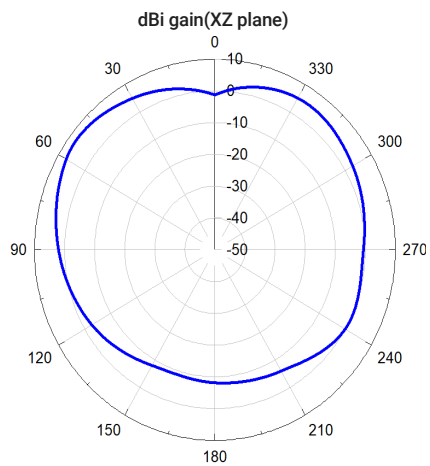
2.4GHz

E-Plane



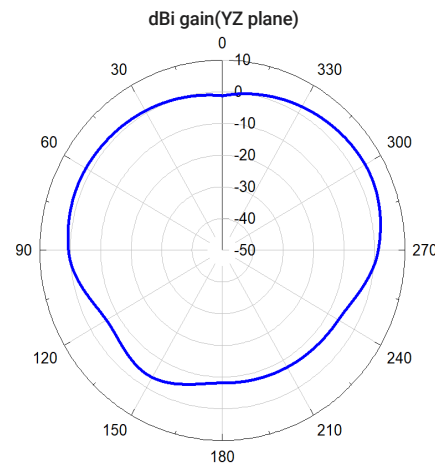
5GHz

H-Plane

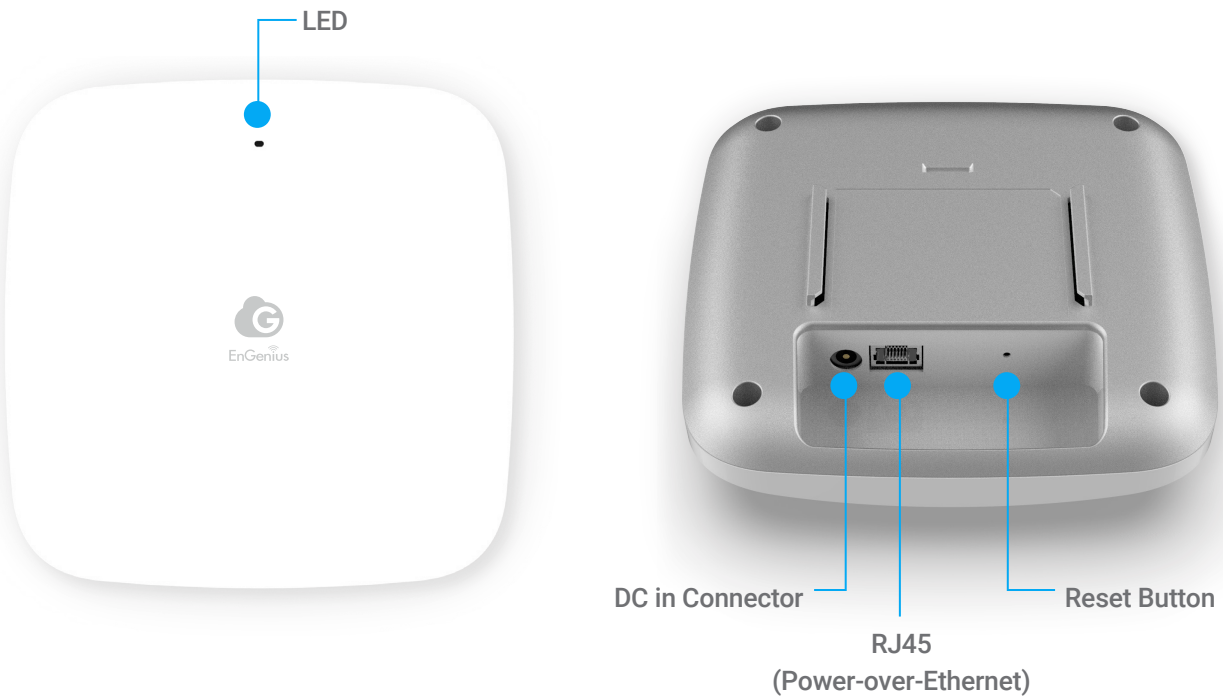


5GHz

E-Plane



## Hardware Overviews



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