



Cloud6 2x2 Lite

Cloud Lite 802.11ax 2x2 Dual Band Indoor Access Point

Overview

EnGenius Cloud Managed Wi-Fi 6 2X2 Access Point ECW210L is a cost-effective model designed for small businesses. It supports dual-concurrent 802.11ax architecture, delivering speeds up to 574 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 574 Mbps (2.4GHz) throughput.
- **Advanced Security:** Integrated WPA3 and WPA2-AES authentication protection.
- **Professional-Grade Antenna:** 7 dBi integrated 2x2 antenna system.
- **Extended Coverage:** Supports 5GHz DFS channels for broader wireless coverage.
- **Flexible Installation:** GE PoE port enables placement up to 328 feet from power source.
- **Cloud Management:** Free local and remote management via EnGenius Cloud.
- **Flexible Deployment:** Multiple operating modes with AP, STA, and Mesh support.

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: 6 dBi(Integrated Omni-Directional)

2 x 5 GHz: 7 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

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

UKCA

UK PSTI

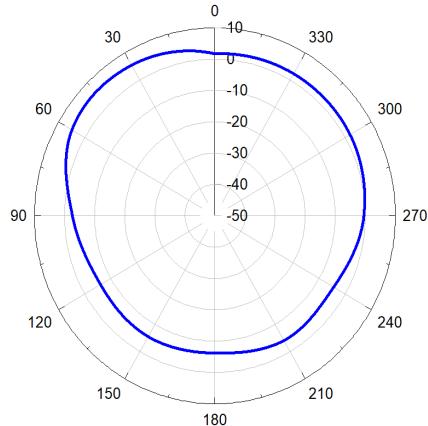
AU

Antennas Patterns

2.4GHz

H-Plane

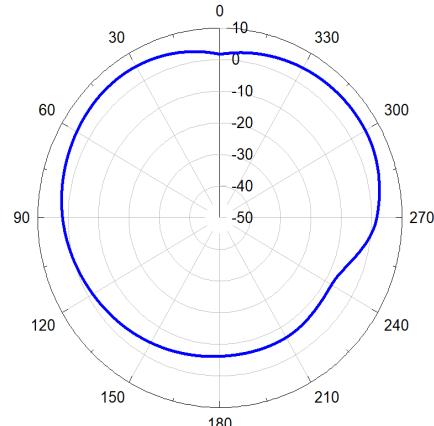
dB_i gain(XZ plane)



2.4GHz

E-Plane

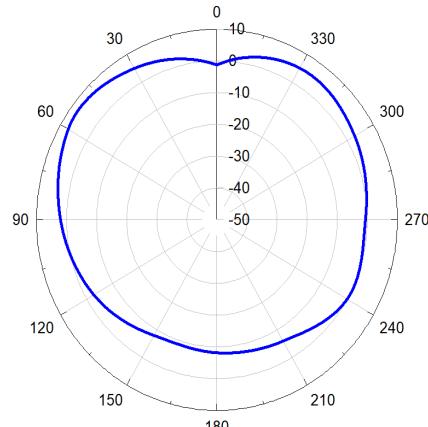
dB_i gain(YZ plane)



5GHz

H-Plane

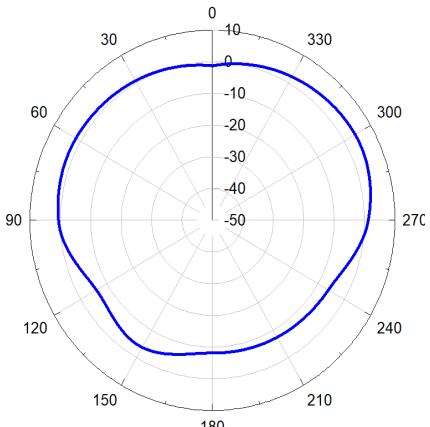
dB_i gain(XZ plane)



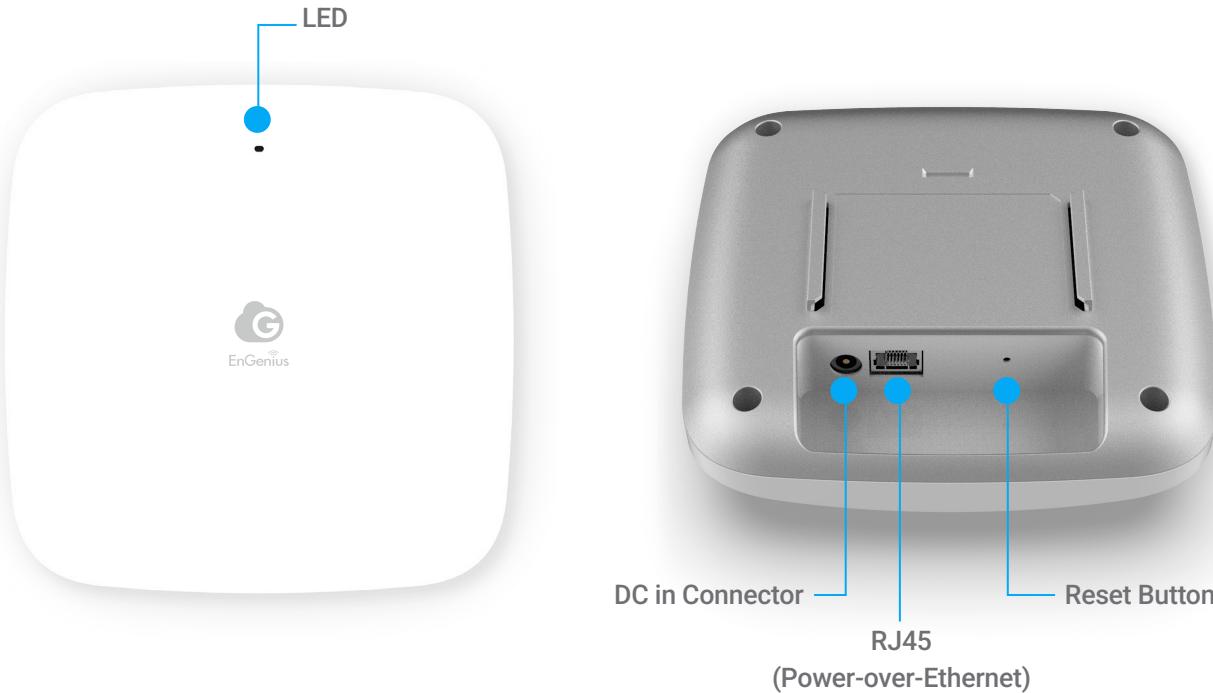
5GHz

E-Plane

dB_i gain(YZ plane)



Hardware Overviews



EnGenius Technologies | California, USA | Ontario, Canada

Email: support@engeniustech.com
Website: www.engeniustech.com
Local contact (USA): (+1) 714 432 8668
Local contact (Canada): (+1) 905 940 8181

EnGenius Networks Europe B.V. | Eindhoven, Netherlands

Email: support@engeniusnetworks.eu
Website: www.engeniustech.com/eu
Local contact: (+31) 40 8200 887

恩碩科技股份有限公司 | Taiwan, R.O.C.

Email: sales@engeniustech.com.tw
Website: www.engeniustech.com/tw
Local contact: (+886) 933 250 628

EnGenius Networks Japan 株式会社 | Tokyo, Japan

Email: jp.support@engenius.ai
Website: www.engeniustech.com/jp
Local contact: (+81) 3 6809 6608

EnGenius Networks Singapore Pte Ltd. | Singapore

Email: techsupport-sg@engeniustech.com
Website: www.engeniustech.com/apac
Local contact: (+65) 6227 1088

EnGenius Networks Private Limited | Hyderabad, India

Email: indiасales@engeniustech.com
Website: www.engeniustech.com/in/
Local contact: (+91) 9845514455

EnGenius Networks Dubai | Dubai, UAE

Email: support-me@engeniustech.com
Website: www.engeniustech.com/apac
Local contact: (+971) 4 339 1227

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