



Cloud6 2x2 Wallplate

Cloud Managed Wi-Fi 6 Wall-Plate Access Point

Overview

EnGenius Cloud Managed Wi-Fi 6 Wall-Plate Access Point ECW215 delivers throughput speeds up to 1,200 Mbps (5 GHz) & 574 Mbps (2.4 GHz), and equips with 2 GE-port supporting 802.3af/at PoE-in. Featuring remote management, Gigabit Ethernet PoE port, 12/48V DC input, quick-scan device registration, and EnGenius Cloud App for unlimited AP management. Mesh Wireless Support streamlines setup and optimizes signal quality.



Features & Benefits

- Cloud Managed with AP & Mesh mode
- 802.11ax Wave 2 (Wi-Fi 6) technology
- Throughput speed of 1,200 Mbps (5 GHz) and 574 Mbps (2.5 GHz)
- Gigabit Ethernet PoE-in port and 12V DC Input for flexible power options
- 2 GE-port support 802.3af/at PoE-in
- Power VoIP Phones or other PoE devices with PoE out
- Quick-scan device register & configuration and remote monitoring & troubleshooting
- Cloud manage an unlimited number of APs from anywhere with the EnGenius Cloud App
- Mesh Wireless Support simplifies setup, optimizes signals & self-heals

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

Antenna

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

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

Physical Interfaces

2 x GE Port (PoE+)

1 x GE Port (PSE Out ; requires 802.3at power source)

1 x DC Jack

1 x Reset Button

LED indicators

1 x Multi-color LED

Power Source

Power-over-Ethernet: 802.3af/at Input

12VDC /1.5A Power Adapter

Maximum Power Consumption

14.2W

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 20 dBm on 2.4 GHz

Up to 20 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 1,200 Mbps wireless data rate with VHT80 to a 2x2 wireless device under the 5GHz radio.

MU-MIMO

Two (2) spatial streams Multiple (MU)-MIMO up to 1,200 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 1200 (MCS0 to MCS11, NSS = 1 to 2)

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 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

Technical Specifications

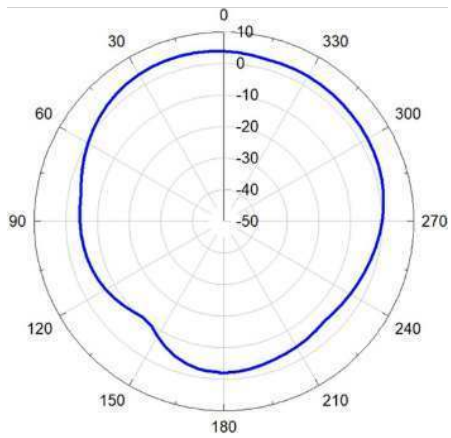
Management Features
Multiple BSSID
8 SSIDs on both 2.4GHz and 5GHz bands
VLAN Tagging
Supports 802.1q SSID-to-VLAN Tagging
Cross-Band VLAN Pass-Through
Management VLAN
Spanning Tree
Supports 802.1d Spanning Tree Protocol
QoS (Quality of Service)
Complaint With IEEE 802.11e Standard
WMM
SNMP
v1, v2c, v3
MIB
I/II, Private MIB
Fast Roaming
802.11r/k
Wireless Security
WPA2-PSK
WPA2-Enterprise
WPA3-PSK
WPA3-Enterprise
Hide SSID in Beacons
Wireless STA (Client) Connected List
Client Isolation
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
269 g
Dimensions
140 x 90 x 40 mm
Package Contents
1 – ECW215 Cloud Managed Indoor Access Point
1 – Junction Plate (short)
1 – Junction Plate (tall)
1 – Mounting Screw Kit
1 – Quick Installation Guide
Compliance
Regulatory Compliance
FCC
CE
IC

Antennas Patterns

2.4GHz

H-Plane

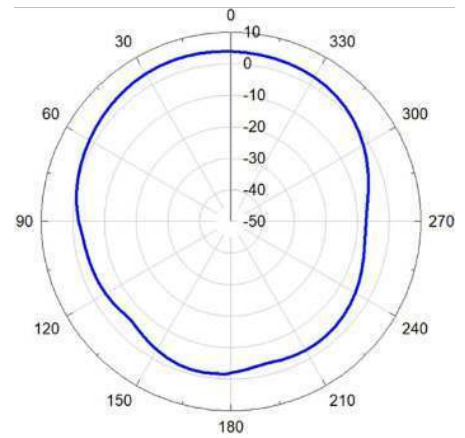
dBi gain(XZ plane)



2.4GHz

E-Plane

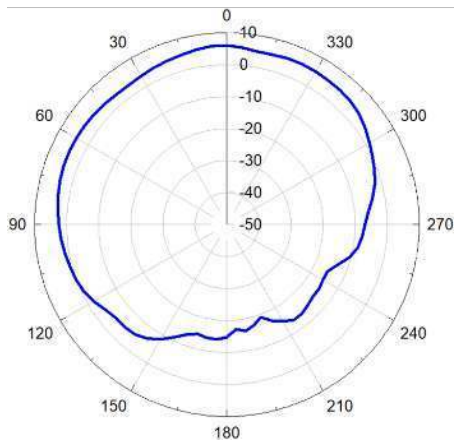
dBi gain(YZ plane)



5GHz

H-Plane

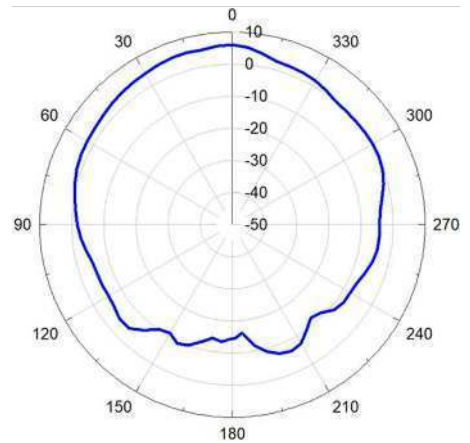
dBi gain(XZ plane)



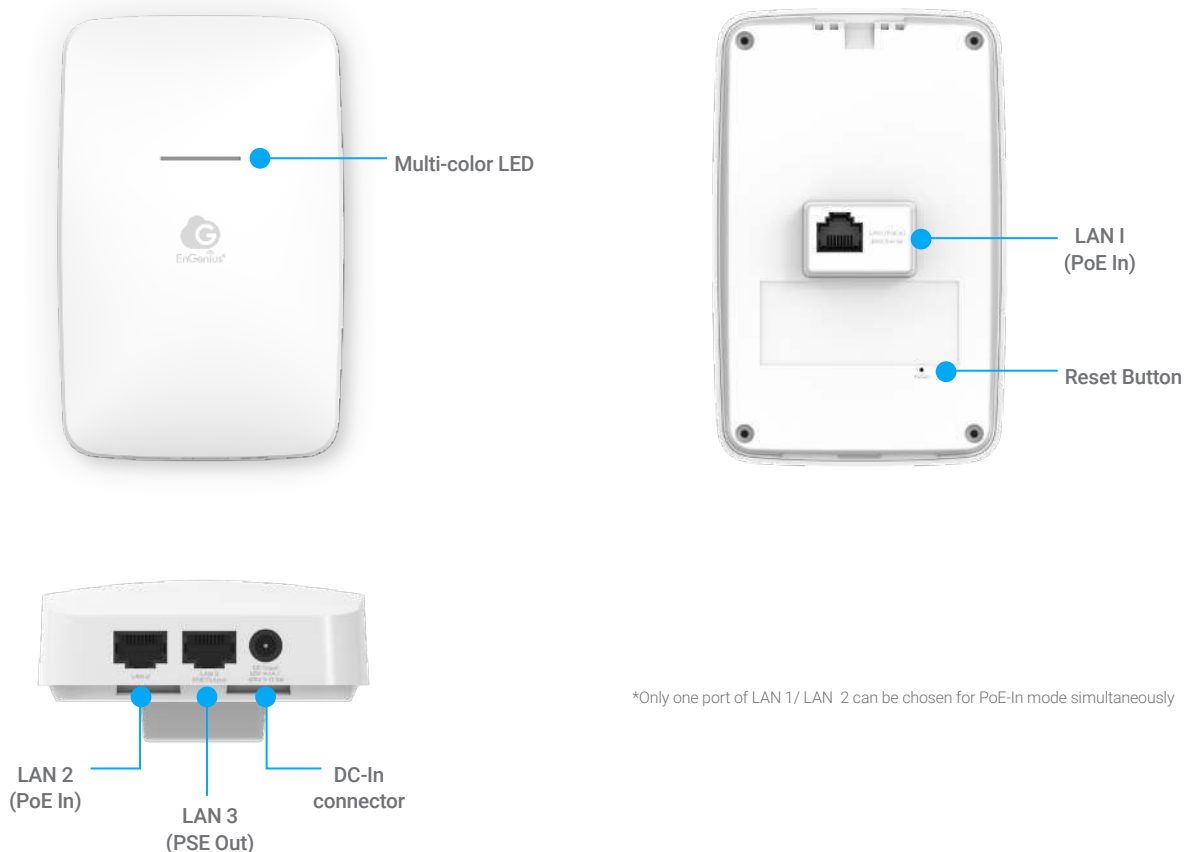
5GHz

E-Plane

dBi gain(YZ plane)



Hardware Overviews



*Only one port of LAN 1/ LAN 2 can be chosen for PoE-In mode simultaneously

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