ECW115

Cloud5 2x2 Wallplate

Cloud Managed 11ac Wave 2 Indoor Access Point

Overview

EnGenius Cloud Managed 11ac Wave 2 Indoor Access Point ECW115 delivers throughput speeds up to 867 Mbps (5 GHz) & 400 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
- 802.11ac Wave 2 (Wi-Fi 5) technology
- Throughput speed of 400 Mbps (2.4 GHz) and 867 Mbps (5 GHz)
- Gigabit Ethernet PoE-in port and 12/48V DC Input for flexible power options
- 2 GE-port support 802.3af/at PoE-in
- 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 802.11b/g/n on 2.4 GHz

IEEE 802.11a/n/ac on 5 GHz

IEEE 802.3 u/ab

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 /1A Power Adapter

Maximum Power Consumption

11.9W

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 17 dBm on 2.4 GHz

Up to 17 dBm on 5 GHz

(Maximum power is limited by regulatory domain)

Radio Chains

2 × 2:2

SU-MIMO

Two(2) spatial stream Single User (SU) MIMO for up to 400 Mbps wireless data rate with VHT40 bandwidth to a 2x2 wireless device under the 2.4GHz radio.

Two(2) spatial stream Single User (SU) MIMO for up to 867 Mbps wireless data rate with VHT80 to a 2x2 wireless device under the 5GHz radio.

MU-MIMO

Two (2) Spatial Stream MU-MIMO up to 867 Mbps wireless data rate for transmitting to two (2) streams MU-MIMO capable wireless devices under 5GHz simultaneously.

Supported Data Rates

2.4 GHz: Max 400 (MCS0 to MCS11, NSS = 1 to 2)

5 GHz: Max 867 (MCS0 to MSC11, 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) (Additional 25% bandwidth when enabling 256-QAM uner HT40)

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

Supported Radio Technologies

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

802.11b: Direct-Sequence Spread Spectrum (DSSS)

802.11n/ac: 2×2 MIMO with 2 Streams

Channelization

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 (HT) Under the 2.4 GHz Radio—HT 40 MHz (256-QAM)

802.11n/ac Packet Aggregation: A-MPDU, A-SPDU

Supported Modulation

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

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)

Compliance 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

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

225 g

Dimensions

140 x 90 x 40 mm

Package Contents

1 – ECW115 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

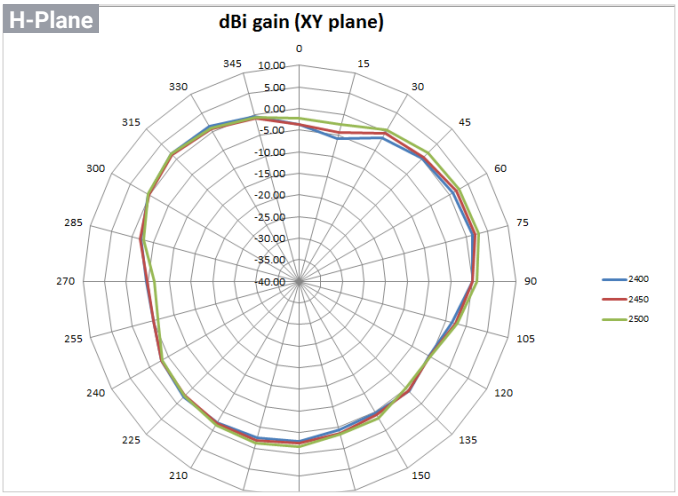
CE

IC

Antennas Patterns

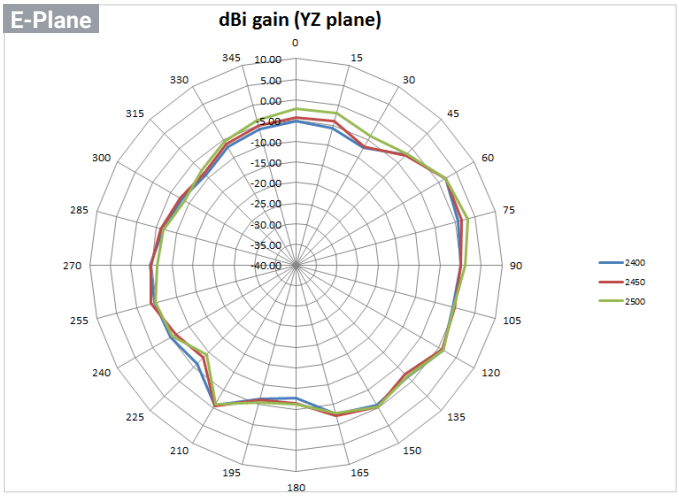
2.4GHz

H-Plane



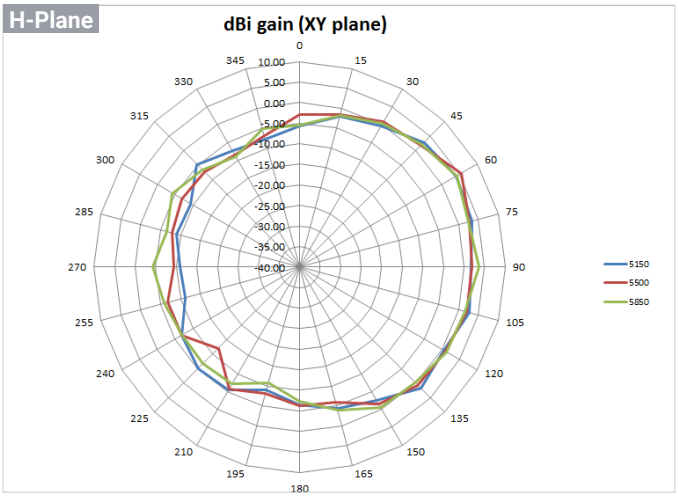
2.4GHz

E-Plane



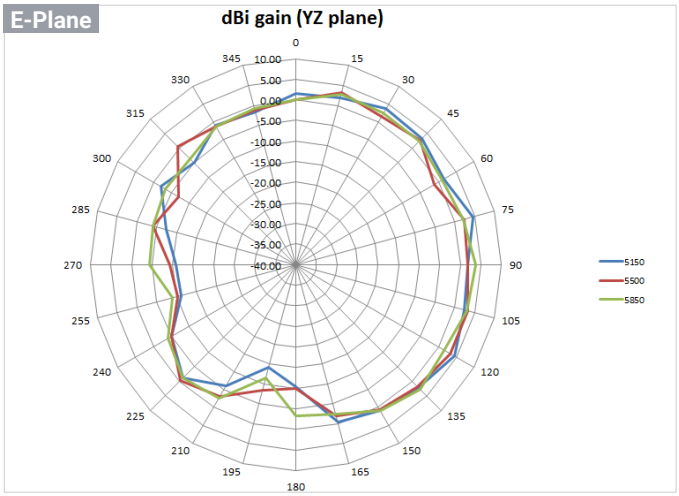
5GHz

H-Plane

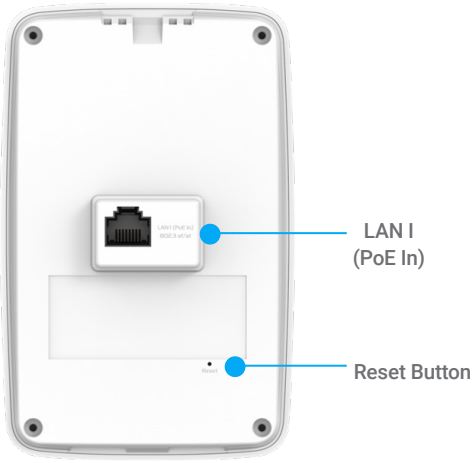


5GHz

E-Plane



Hardware Overviews



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

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