# Wi-Fi 5 Cloud-Managed Wave 2 Wall-Plate Access Point

Provides in-demand speeds for in-room wired and wireless connectivity

## Product Highlights

EnGenius Cloud Managed ECW115 11ac Wave 2 2x2:2 Wall Plate Access Point with built-in 2-port Gigabit switch offers in-demand, high-speed in-room wired and wireless connectivity that is flexible and reliable. Deploy in hotel guest rooms, dorms, classrooms, and multi-tenant dwellings.

## Features & Benefits

- Dual-radio 2x2 802.11ac/a/b/g/n with MU-MIMO & Beamforming technology
- Supports up-to 867 Mbps in 5-GHz band & 400 Mbps in 2.4-GHz band
- Sleek, Low Profile Design for In-Room Wi-Fi & Wired Connectivity
- On-Board 2-Port Switch Offers Port-Based 802.1Q VLAN Support
- Connect & Power VoIP or other PSE devices on LAN1 & LAN2
- Cloud Manage unlimited number of AP's from Anywhere with the EnGenius Cloud App

## Standards

IEEE 802.11b/g/n on 2.4 GHz

IEEE 802.11a/n/ac Wave 2 on 5 GHz

## Antenna

2 x  2.4 GHz: 4 dBi

2 x  5 GHz: 5 dBi

Integrated Omni-Directional Antenna

## LED Indicators

1 x Power

1 x Cloud Connecting

1 x Multi-Color LED

## Physical Interface

1 x 10/100/1000 BASE-T, RJ-45 Ethernet Uplink Port (back plate)

2 x 10/100/1000 BASE-T, RJ-45 Ethernet Switched Ports (client ports)

Port 1 (PSE) 802.3af PoE (requires 802.3at power source)

1 x DC Jack

1 x Reset Button

## Power Source

Power-over-Ethernet: 802.3at Input

IEEE 802.11e Compliant Source

12VDC /1A Power Adapter

## Maximum Power Consumption

12W

## Wireless & Radio Specifications Operating Frequency

Dual-Radio Concurrent 2.4 GHz & 5 GHz

## Operation Modes

Manage Mode: AP, AP Mesh

## Frequency Radio

2.4 GHz: 2400 MHz ~ 2472 MHz

5 GHz: 5150 MHz ~ 5250 MHz, 5725 MHz ~ 5850 MHz

### Transmit Power

Up to 17 dBm on 2.4 GHz

Up to 17 dBm on 5 GHz

### Tx Beamforming (TxBF)

**Radio Chains/Spatial Stream**

2×2:2

### SU-MIMO

Two (2) spatial streams Single User SU-MIMO for up to 400 Mbps wireless data rate with VHT40 bandwidth to a 2x2 wireless client 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 Streams 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 (Mbps):

2.4 GHz: Max 400

5 GHz: Max 867

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

802.11b: Direct-Sequence Spread Spectrum (DSSS)

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

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 Very High Throughput (VHT) Under the 2.4 GHz Radio—VHT 40 MHz (256-QAM)

802.11n/ac Packet Aggregation: AMPDU, ASPDU

### Supported Modulation

802.11b: BPSK, QPSK, CCK

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

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

### Multiple BSSID

8 SSIDs on both 2.4GHz and 5GHz radios.

### 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)

Compliant With IEEE 802.11e Standard

WMM

### SNMP

v1, v2c, v3

### MIB

I/II, Private MIB

### Wireless Security

OWE

WPA2 Personal

WPA3 Personal (SAE) - WPA3 Only

WPA3/WPA2 Personal Mixed

WPA2 Enterprise

WPA3 Enterprise Suite B

Hide SSID in Beacons

MAC Address Filtering, Up to 32 MACs per SSID

Wireless STA (Client) Connected List

SSH Tunnel

Client Isolation

### Environment & Physical Temperature Range

Operating: 32ºF~104ºF (0 ºC~40 ºC)

Storage: -40 ºF~176 ºF (-40 ºC~80 ºC)

### Humidity (non-condensing)

Operating: 90% or less

Storage: 90% or less

### Dimensions & Weight

Weight: .80 lbs. (.363 Kg)

Length: 3.5" (90 mm)

Width: 5.5" (140 mm)

Height: 1.6" (40 mm)

### Package Contents

1 - ECW115 Cloud Managed Indoor Access Point

1 - Ceiling and Wall Mount Screw Kits

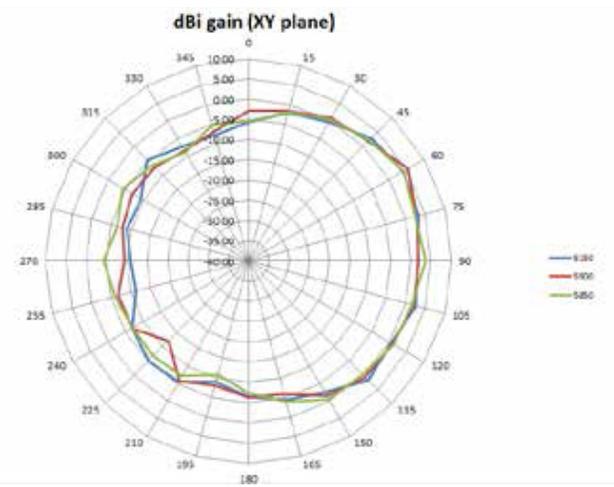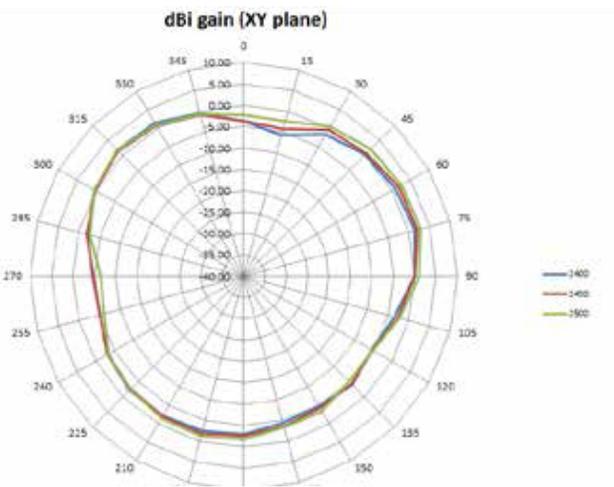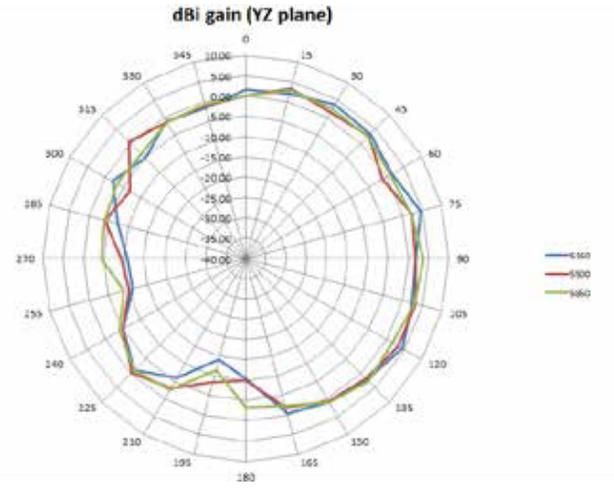2 - Junction-plates (tall/short)
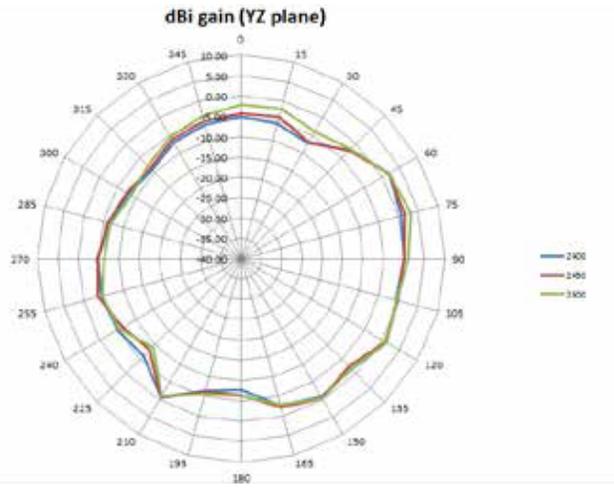
1 - Quick Installation Guide

### Warranty

2 Year

### Certifications

CE

FCC

IC

## dBi gain (YZ plane)



## dBi gain (YZ plane)



## dBi gain (XY plane)



## dBi gain (XY plane)

## ECW115 Indoor Access Point

**Power LED**

**Gigabit Ethernet Port (PoE)**

LAN1 (PoE In)
802.3 af/at

**Reset Button**

Reset

**Power connector**

**Port 1 - Gigabit Port (PoE+) Uplink**

**Port 2 - Gigabit Switch Port with PoE Support**
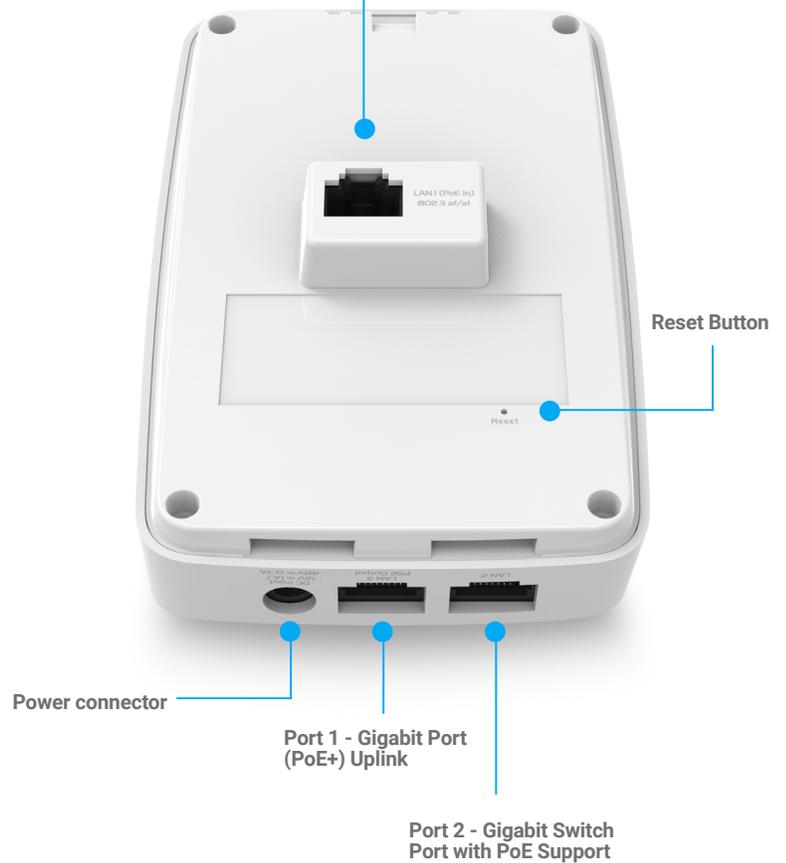
## Plug & Play with Zero Configuration

# Scan & Go