ECW120

Cloud Managed 11ac Wave 2 Indoor Wireless Access Point

Delivers higher speeds and user capacity and supercharges performance faster than 11ac Wave 1 APs

Product Highlights

EnGenius Cloud Managed ECW120 Beamforming Wi-Fi 802.11ac Wave 2 Indoor Access Point delivers 1.3 Gbps speeds and higher user capacity. It supercharges performance up to 30% faster than legacy 11ac Wave 1 APs. This dual-band AP with MU-MIMO and Beamforming features meshing, supports PoE, and improves connection reliability for business-class Wi-Fi.

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
- Compliance with 802.3af & 48V PoE input for flexible installation up-to 328 feet
- Quick-Scan Device Register & Configuration and Remote Monitoring & Troubleshooting
- Cloud Manage unlimited number of AP's from Anywhere with the EnGenius Cloud App

LED Indicators

1 x Power

1 x LAN

1 x 2.4 GHz

1 x 5 GHz

1 x Mesh (ECW120)

Power Source

Power-over-Ethernet: 802.3af Input

IEEE 802.11e Compliant Source

12VDC /2A

Maximum Power Consumption

12W

Operating Frequency

Dual-Radio Concurrent 2.4 GHz & 5 GHz

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

Standards

IEEE 802.11b/g/n on 2.4 GHz

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

Antenna

1 x 2.4 GHz: 5 dBi

1 x 5 GHz: 5 dBi

Integrated Omni-Directional Antenna

Physical Interface

1 x 10/100/1000 BASE-T, RJ-45 Ethernet Port

1 x DC Jack

1 x Reset Button

Transmit Power

Up to 23 dBm on 2.4 GHz

Up to 23 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/ac Packet Aggregation: AMPDU, ASPDU

802.11n Supports Very High Throughput (VHT) Under the 2.4 GHz Radio—VHT 40 MHz (256-QAM)

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: 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: 0.80 lbs. (362 g)

Diameter: 6.36" (161.5 mm)

Height: 1.64" (41.5 mm)

Package Contents

1 – ECW120 Cloud Managed Indoor Access Point

1 – T-Rail Mounting Kit

1 – Ceiling and Wall Mount Screw Kit

1 – Mounting Bracket
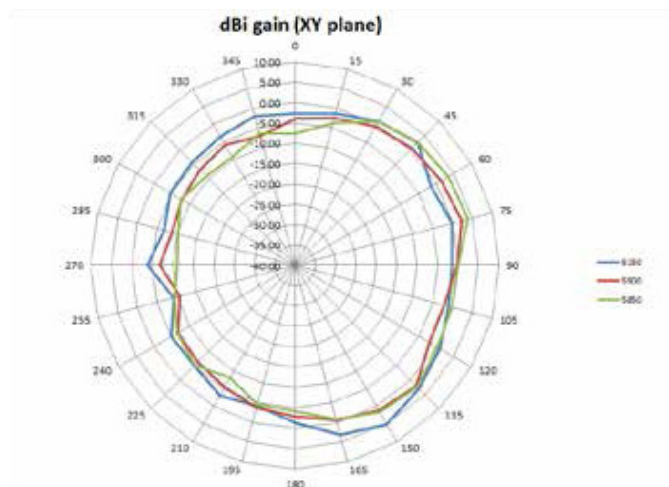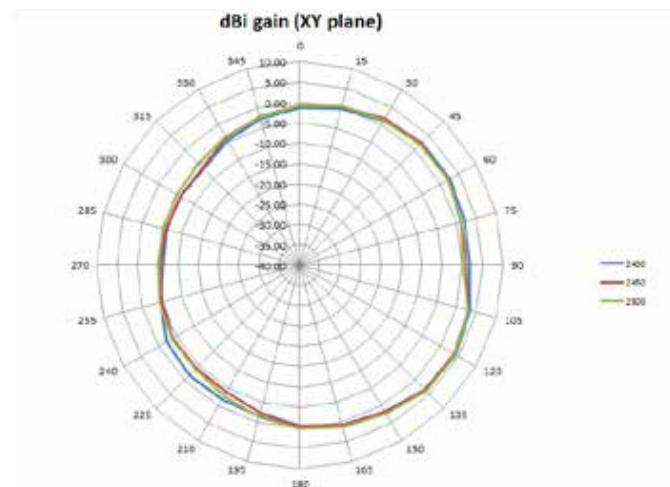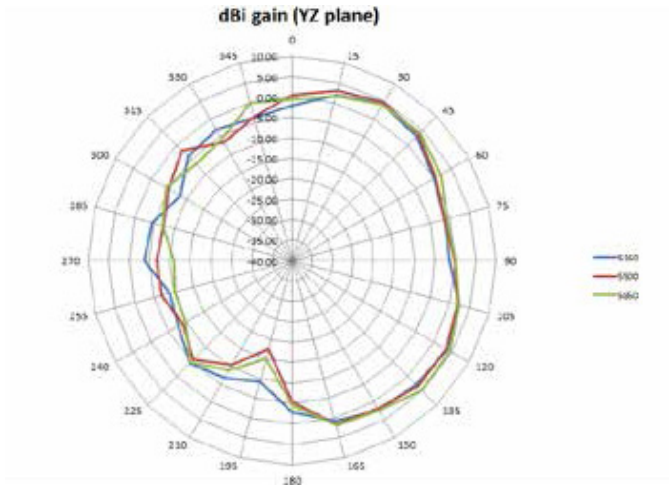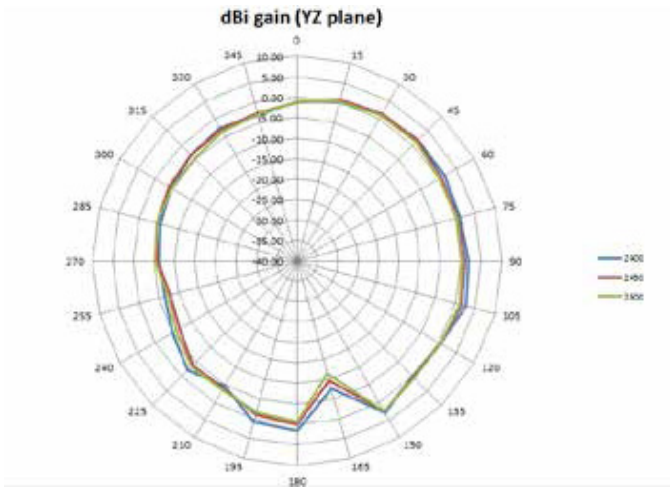
1 – Quick Installation Guide

Warranty

2 Year

Certifications

CE

FCC

IC

dBi gain (YZ plane)

dBi gain (YZ plane)

dBi gain (XY plane)

dBi gain (XY plane)

ECW120 Indoor Access Point

2.4GHz LED

Ethernet Port LED

5GHz LED

Power LED

Mesh LED

Reset Button

Gigabit Ethernet Port (PoE)

Power connector

Kensington Security Slot

Ceiling (Wall) Mount Hole
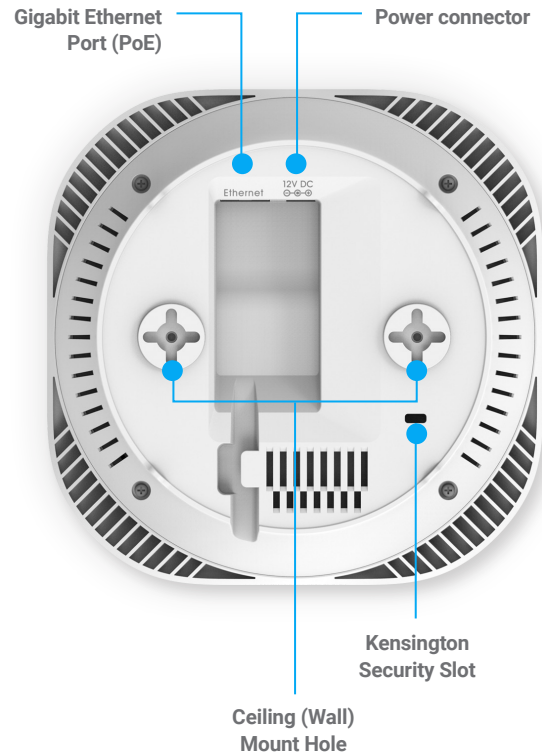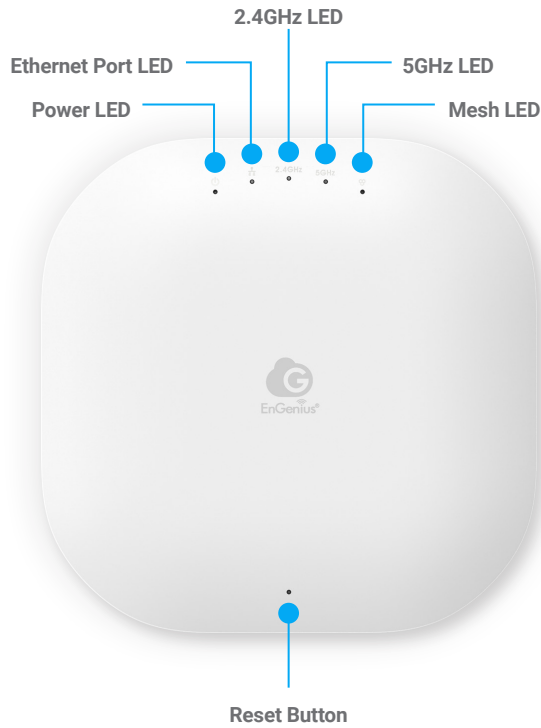
Plug & Play with Zero Configuration

Scan & Go