



EnGenius Cloud Managed WiFi 6 4x4 Indoor Wireless Access Point

Optimal Performance, Enterprise Features & Cloud Management



EnGenius Cloud Managed ECW230 Wi-Fi 6 (802.11ax) 4x4 Indoor Wireless Access Point features 802.11ax technology, such as OFDMA, MU-MIMO, and spatial reuse, to expand the capabilities of Wi-Fi. The low-profile AP provides high-density support & maximum speeds of 1,148 Mbps (2.4 GHz frequency) and 2,400 Mbps (5 GHz frequency).

Features & Benefits

- Dual concurrent 802.11ax architecture & backward-compatible with 11ac/a/b/g/n client devices; 4x4 antenna
- Supports up to 2,400 Mbps in 5-GHz frequency band & 1,148 Mbps in 2.4-GHz frequency band
- 2.5 GbE realizes greater throughput and supports 802.3at & 48V PoE input for flexible installation up-to 100 meters (328 feet)
- Uplink and downlink of OFDMA improves transmission to APs and client devices
- Target wake time for power-saving of client & IoT devices

Technical Specifications

ECW230

Standards

IEEE 802.11ax on 2.4 GHz

IEEE 802.11ax on 5 GHz

Backward compatible with 802.11a/b/g/n/ac

Antenna

4 x 2.4 GHz: 5dBi

4 x 5 GHz: 6dBi

Integrated Omni-Directional Antenna

Physical Interface

1 x 10/100/1000/2500 N-BASE-T, RJ-45 Ethernet Port

1 x DC Jack

1 x Reset Button

LED Indicators

1 x Power

1 x LAN

1 x 2.4 GHz

1 x 5 GHz

Power Source

Power-over-Ethernet: 802.3at Input

12VDC /2A

Maximum Power Consumption

19.5W

Wireless & Radio Specifications

Dual-Radio Concurrent 2.4 GHz & 5 GHz

Operation Modes

Managed mode: AP and 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 23 dBm on 2.4 GHz

Up to 23 dBm on 5 GHz

(Maximum power is limited by regulatory domain)

Tx Beamforming (TxBF)

Radio Chains/Spatial Stream

4×4:4

SU-MIMO

Four(4) spatial stream SU-MIMO for 2.4GHz and four(4) spatial stream SU-MIMO for 5GHz up to 3,548 Mbps wireless data rate to a single wireless client device under the both 2.4GHz and 5GHz radio.

MU-MIMO

Four(4) spatial streams MU-MIMO for up to 2,400 Mbps wireless data rate to transmit to two(2) streams MU-MIMO 11ax capable wireless client devices under 5GHz simultaneously.

Four(4) MU-MIMO for up to 1,148 Mbps wireless data rate to transmit to two(2) streams MUMIMO 11ax capable wireless client devices under 2.4GHz simultaneously.

Supported Data Rates (Mbps)

802.11ax:

- 2.4 GHz: 9 to 1,148 (MCS0 to MCS11, NSS = 1 to 4)
- 5 GHz: 18 to 2,400 (MCS0 to MSC11, 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 600 (MCS0 to MCS31)

802.11ac: 6.5 to 1,733 (MCS0 to MCS9, NSS = 1 to 4)

Supported Radio Technologies

802.11ax: Orthogonal Frequency Division Multiple Access (OFDMA)

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

802.11b: Direct-sequence spread-spectrum (DSSS)

Channelization

802.11ax supports high efficiency (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 very high throughput under the 2.4GHz radio—VHT40 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

Management

Management 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)

Compliant With IEEE 802.11e Standard

WMM

SNMP

v1, v2c, v3

MIB

I/II, Private MIB

Wireless Security

WPA3

WPA2 Enterprise (AES)

WPA2 AES-PSK

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

Device ECW230

Weight: 1.31 lbs. (597 g)

Length: 8.27" (210 mm)

Width: 8.27" (210 mm)

Height: 1.31" (33.2 mm)

Packaging

Weight: 1.96 lbs. (891 g)

Length: 9.65" (245 mm)

Width: 9.65" (245 mm)

Height: 3.35" (85 mm)

Package Contents

1 – ECW230 Cloud Managed 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 – Quick Installation Guide

Certifications

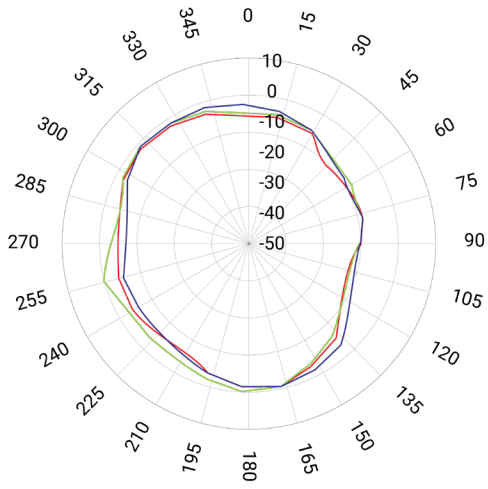
FCC, CE, IC

Warranty

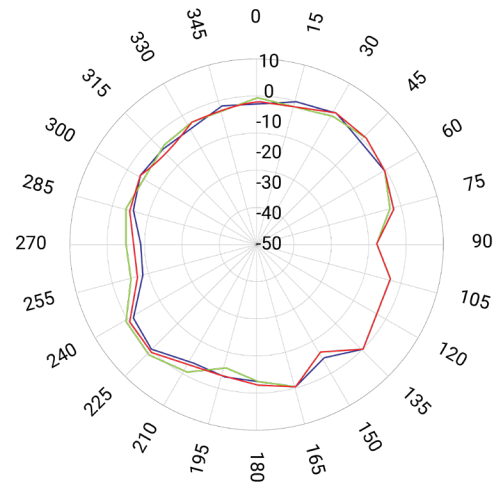
2 Year

Antennas Patterns

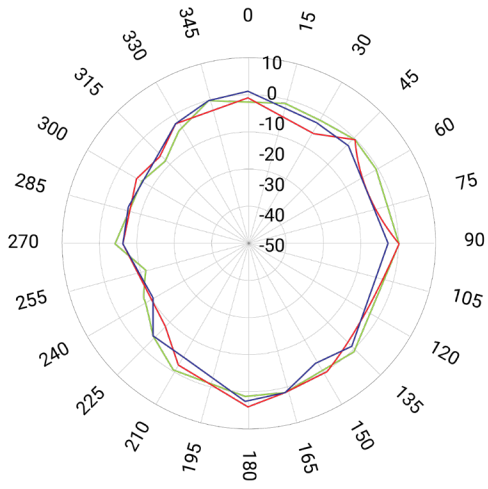
dBi Gain (XY plane)



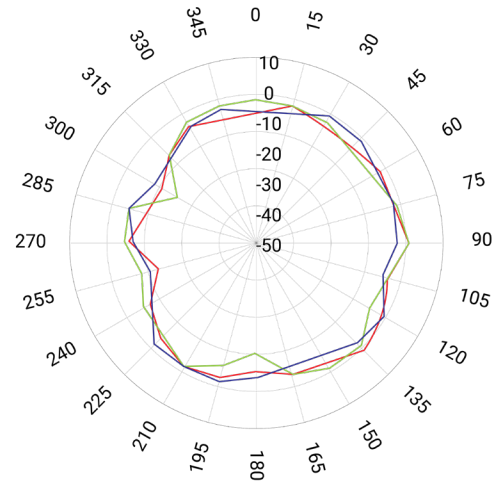
dBi Gain (YZ plane)



dBi Gain (XY plane)



dBi Gain (YZ plane)

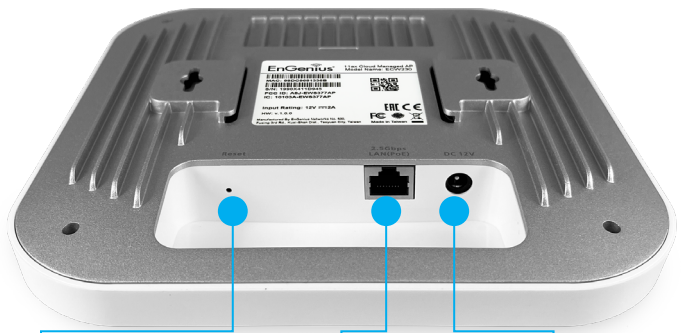


Product Images

LED Indicators



Kensington Security Slot



Reset Button

2.5Gbps LAN (PoE, 802.3at)

DC-Jack

Plug & Play with Zero Configuration

Scan & Go

