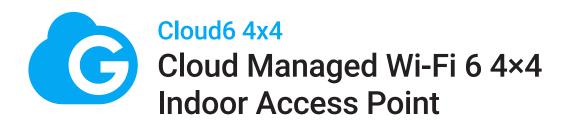


**ECW230** 



### **Overview**

EnGenius Cloud Managed Wi-Fi 6 4×4 Indoor
Access Point ECW230 supports dual concurrent
802.11ax Wi-Fi 6 architecture, delivering
supercharged speeds up to 2,400 Mbps (5 GHz),
and up to 1,200 Mbps (2.4 GHz). With WPA3
& WPA2-AES authentication support, remote
monitoring & troubleshooting, and Mesh Wireless
Support for optimized signal quality, it's easy to set
up and manage an unlimited number of APs with
the EnGenius Cloud App.



### **Features & Benefits**

- Dual concurrent 802.11ax Wi-Fi 6 architecture & backward-compatible
- Supercharged speeds up to 2,400 Mbps (5 GHz) & up to 1,200 Mbps (2.4 GHz)
- 2.5 GbE realizes greater throughput and supports 802.3at & 48V PoE input for flexible installation over 100 meters (328 feet)
- WPA3 & WPA2-AES authentication support

- · Cloud Managed with AP & Mesh mode
- 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

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# **Technical Specifications**

### Technical Specifications

#### **Standards**

IEEE 802.11ax on 2.4 GHz

IFFF 802 11ax on 5 GHz

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

#### Antenna

4 x 2.4 GHz: 5 dBi(Integrated Omni-Directional)

4 x 5 GHz: 6 dBi(Integrated Omni-Directional)

#### **Physical Interfaces**

1 x 2.5GE Port (PoE+)

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 Power Adapter

#### **Maximum Power Consumption**

19.5W

#### 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  $\sim$  5250 MHz, 5250 MHz  $\sim$  5350 MHz, 5470 MHz  $\sim$  5725 MHz, 5725 MHz  $\sim$  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)

#### **Radio Chains**

4 × 4:4

### SU-MIMO

Four (4) spatial stream Single User (SU) MIMO for up to 1148 Mbps wireless data rate with HE40 bandwidth to a 4x4 wireless client device under the 2.4GHz radio.

Four (4) spatial stream Single User (SU) MIMO for up to 2400 Mbps wireless data rate with HE80 to a 4x4 wireless device under the 5GHz radio.

#### MU-MIMO

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

Four (4) spatial streams Multiple (MU)-MIMO up to 1,148 Mbps wireless data rate for transmitting to four (4) streams MU-MIMO 11ax capable wireless client devices under 2.4GHz simultaneously.

#### **Supported Data Rates**

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)

802.11a/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**

512 Per radio

### 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

# **Technical Specifications**

# 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

597 g

### **Dimensions**

205 x 205 x 33.2 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

### Compliance

### **Regulatory Compliance**

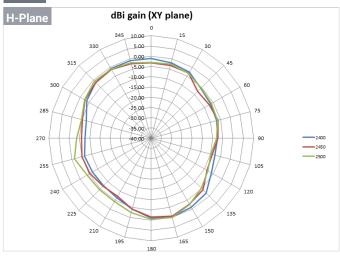
FCC

CE

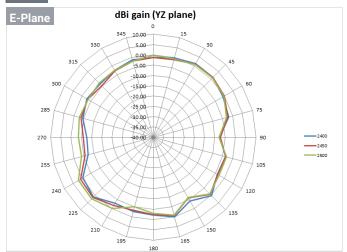
IC

# **Antennas Patterns**

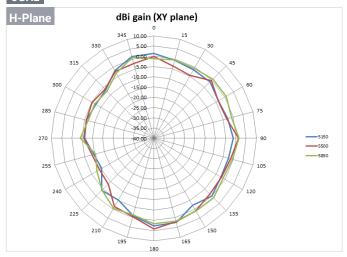
# 2.4GHz



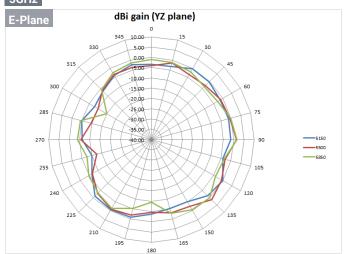
# 2.4GHz



### 5GHz

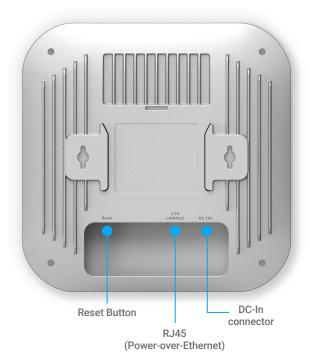


### 5GHz



### **Hardware Overviews**







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Version 1.1 09212023

