ECW230S

Cloud6 2x2 S

Cloud Managed Wi-Fi 6 4×4 Indoor Access Point

Overview

EnGenius Cloud Managed Wi-Fi 6 4×4 Indoor Access Point ECW230 S 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 1,200 Mbps (5 GHz) & up to 600 Mbps (2.4 GHz)
- 1 GbE realizes greater throughput and supports 802.3af & 48V PoE input for flexible installation over 100 meters (328 feet)
- Wireless security detection and protection by WIPS radio
- BLE client list by beacon scan
- 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

Technical Specifications

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Standards

IEEE 802.11ax on 2.4 GHz

IEEE 802.11ax on 5 GHz

IEEE 802.3 u/ab

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

1 x Scanning

1 x BLE

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 ~ 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)

Radio Chains

4 x 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

DFS Certification

FCC/CE/IC

AirGuard (WIPS/WIDS)

Yes

Zero-wait DFS

Yes

Dedicated Scanning Radio

Yes

Max Concurrent User

512 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

390 g

Dimensions

205 x 205 x 33.2 mm

Package Contents

1 – ECW230S 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

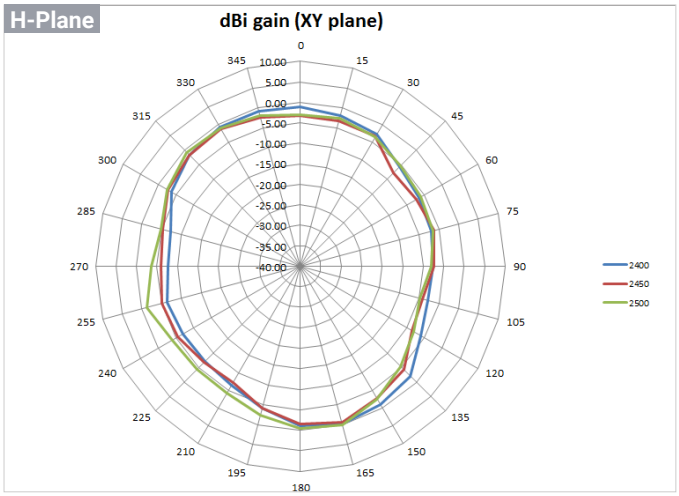
CE

IC

Antennas Patterns

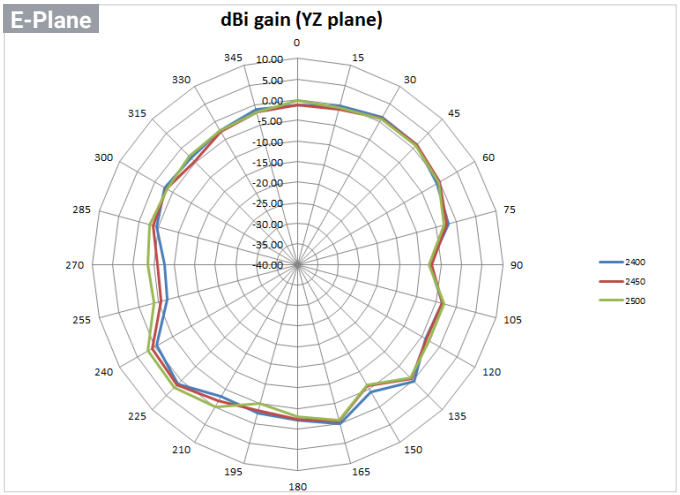
2.4GHz

H-Plane



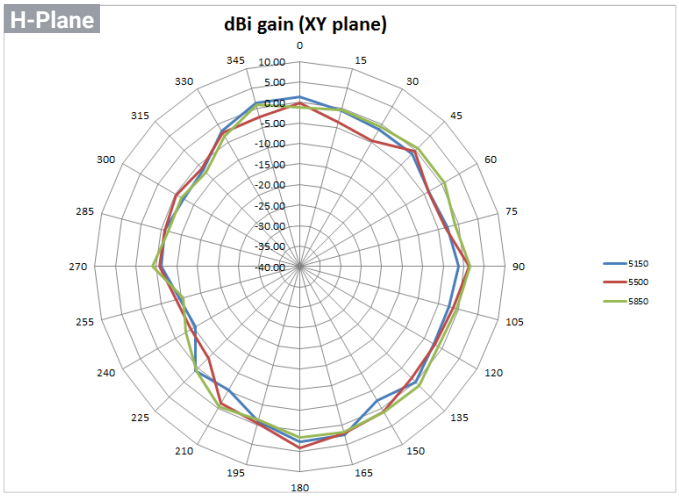
2.4GHz

E-Plane



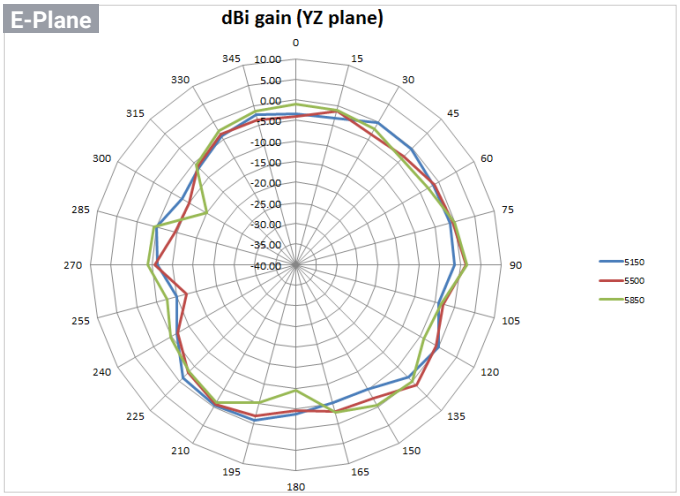
5GHz

H-Plane

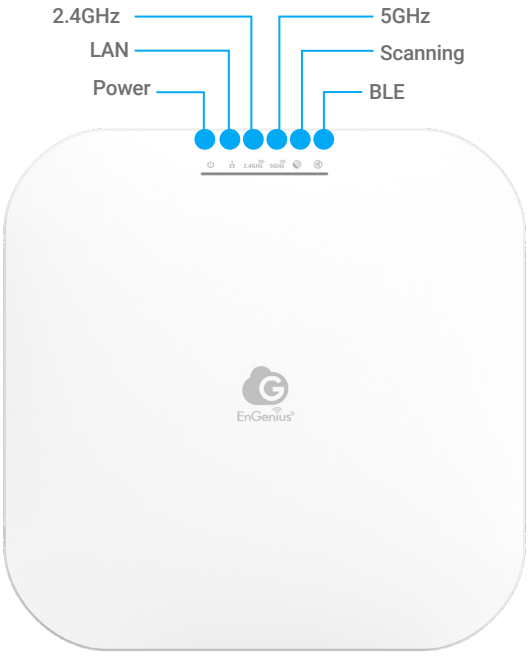


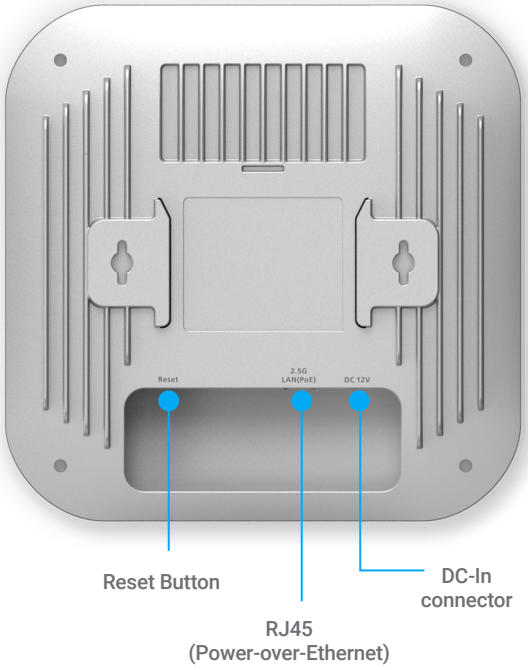
5GHz

E-Plane



Hardware Overviews





EnGenius Technologies | Costa Mesa, California, USA
Emaill: support@engeniustech.com
Website: www.engeniustech.com
Local contact: (+1) 714 432 8668

EnGenius Technologies Canada | Ontario, Canada
Email: support@engeniustech.com
Website: www.engeniustech.com
Local contact: (+1) 905 940 8181

EnGenius Networks Europe B.V. | Eindhoven, Netherlands
Email: support@engeniusnetworks.eu
Website: www.engeniustech.com/eu/
Local contact: (+31) 40 8200 887

EnGenius Networks Singapore Pte Ltd. | Singapore
Emaill: techsupport@engeniustech.com.sg
Website: www.engeniustech.com/apac/
Local contact: (+65) 6227 1088

EnGenius Networks Dubai | Dubai, UAE
Emaill: support@engenius-me.com
Website: www.engeniustech.com/apac/
Local contact: (+971) 4 339 1227

恩碩科技股份有限公司 | Taiwan, R.O.C.
Email: sales@engeniustech.com.tw
Website: www.engeniustech.com/tw/
Local contact: (+886) 933 250 628

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