ECW260

Cloud6 2x2 Outdoor

Cloud Managed Wi-Fi 6 2×2 Outdoor Access Point

Overview

EnGenius Cloud Managed Wi-Fi 6 2×2 Outdoor Access Point ECW260 supports dual concurrent 802.11ax with backward compatibility, providing up to1,200 Mbps in the 5 GHz band and 574 Mbps in the 2.4 GHz band. Its IP67-rated weatherproof and dustproof housing withstands harsh environments, and its Mesh Wireless Support simplifies setup and self-heals. The EnGenius Cloud App allows remote management of an unlimited number of APs.

Features & Benefits

- Dual concurrent 802.11ax & backward-compatible with 11ac/a/b/g/n client devices
- Supports up to 1,200 Mbps in 5 GHz band & 574 Mbps in 2.4 GHz band
- IP67-Rated weatherproof & dustproof housing withstands harsh environments
- 2.5 GigE PoE+ compatible port for easy placement where power outlets are scarce
- Four (4) (2x2) detachable 5 dbi high-gain, 360° SMA-type antennas
- 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

2 x 2.4 GHz: 5 dBi(External Omni-Directional)

2 x 5 GHz: 5 dBi(External Omni-Directional)

Physical Interfaces

1 x 2.5GE Port (PoE+)

LED indicators

1 x Power

1 x LAN

1 x 2.4 GHz

1 x 5 GHz

Power Source

Power-over-Ethernet: 802.3af/at Input

Active Ethernet (PoE)

Maximum Power Consumption

15.9W

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 ~ 2483 MHz

5 GHz: 5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725 MHz ~ 5875 MHz

Transmit Power

Up to 23 dBm on 2.4 GHz

Up to 25 dBm on 5 GHz

(Maximum power is limited by regulatory domain)

Radio Chains

2 × 2:2

SU-MIMO

Two(2) spatial streams SU-MIMO for 2.4GHz and two(2) spatial streams SU-MIMO for 5GHz up to totally 1,774Mbps wireless data rate to a single 11ax wireless client device under the both 2.4GHz and 5GHz radio.

MU-MIMO

Two(2) spatial streams multi-user (MU)-MIMO for up to 1201 Mbps wire-less data rate to transmit to one(1) two streams MU-MIMO 11ax capable wireless client devices under 5GHz simultaneously.

Two(2) spatial streams multi-user (MU)-MIMO for up to 574 Mbps wireless data rate to transmit to one(1) two streams MU-MIMO 11ax capable wireless client devices under 2.4GHz simultaneously.

Supported Data Rates

802.11ax:

2.4 GHz: 9 to 574 (MCS0 to MCS11, NSS = 1 to 2)

5 GHz: 18 to 1200 (MCS0 to MCS11, NSS = 1 to 2)

802.11b: 1, 2, 5.5, 11

802.11a/g: 6, 9, 12, 18, 36, 48, 54

802.11n: 6.5 to 300 (MCS0 to MCS15)

802.11ac: 6.5 to 867 (MCS0 to MCS9, NSS = 1 to 2)

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

CE

Max Concurrent User

512 Per radio

Client Balancing

Yes

Auto Channel Selection

Yes

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

Technical Specifications

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: -4º~140ºF/-20ºC~60ºC
Storage: -40Fº~176ºF/-40ºC~80ºC
Humidity (non-condensing)
Operating: 90% or less
Storage: 90% or less
IP Rating(Outdoor only)
IP67
Surge Protection (Outdoor only)
1KV
ESD Protection(Outdoor only)
Contact: 4KV Air: 8 K

Dimensions & Weight

Weight
720 g
Dimensions
124 x 190 x 52.5 mm
Package Contents
1 – ECW260 Cloud Managed Outdoor Access Point
2 – Pole-Mounting Brackets
1 – Wall-Mount Screw Set
2 – 2.4GHz 5dBi SMA Antennas
2 – 5GHz 5dBi SMA Antennas
1 – Quick Installation Guide

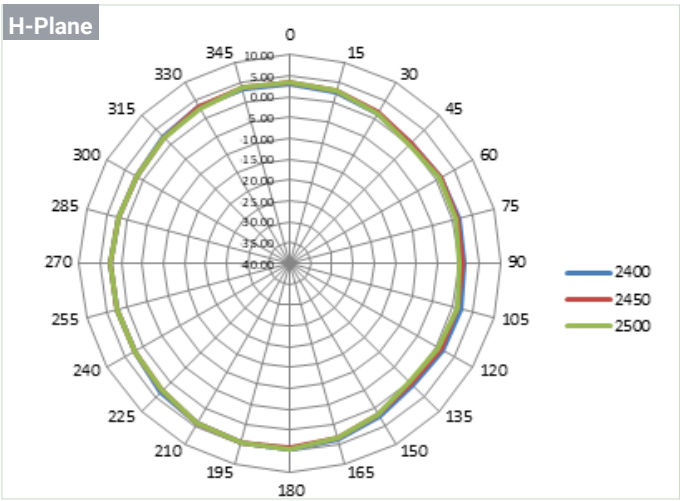
Compliance

Regulatory Compliance
FCC
CE
IC

Antennas Patterns

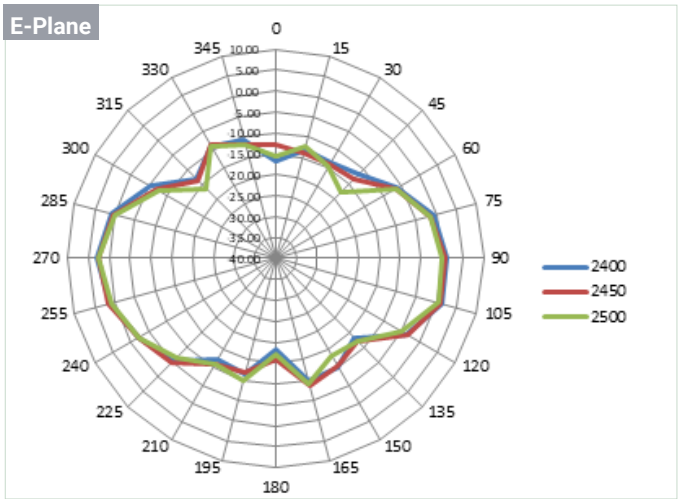
2.4GHz

H-Plane



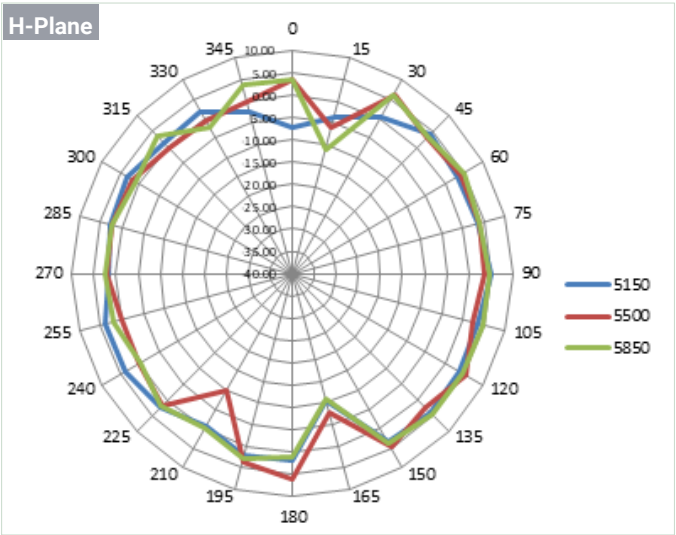
2.4GHz

E-Plane



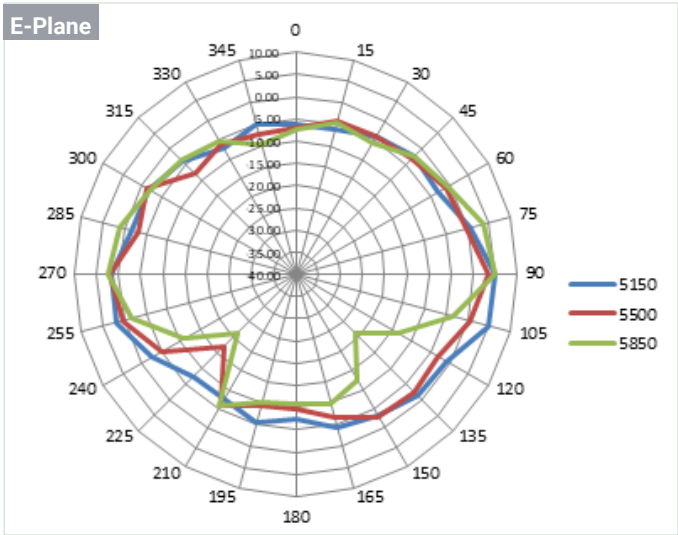
5GHz

H-Plane

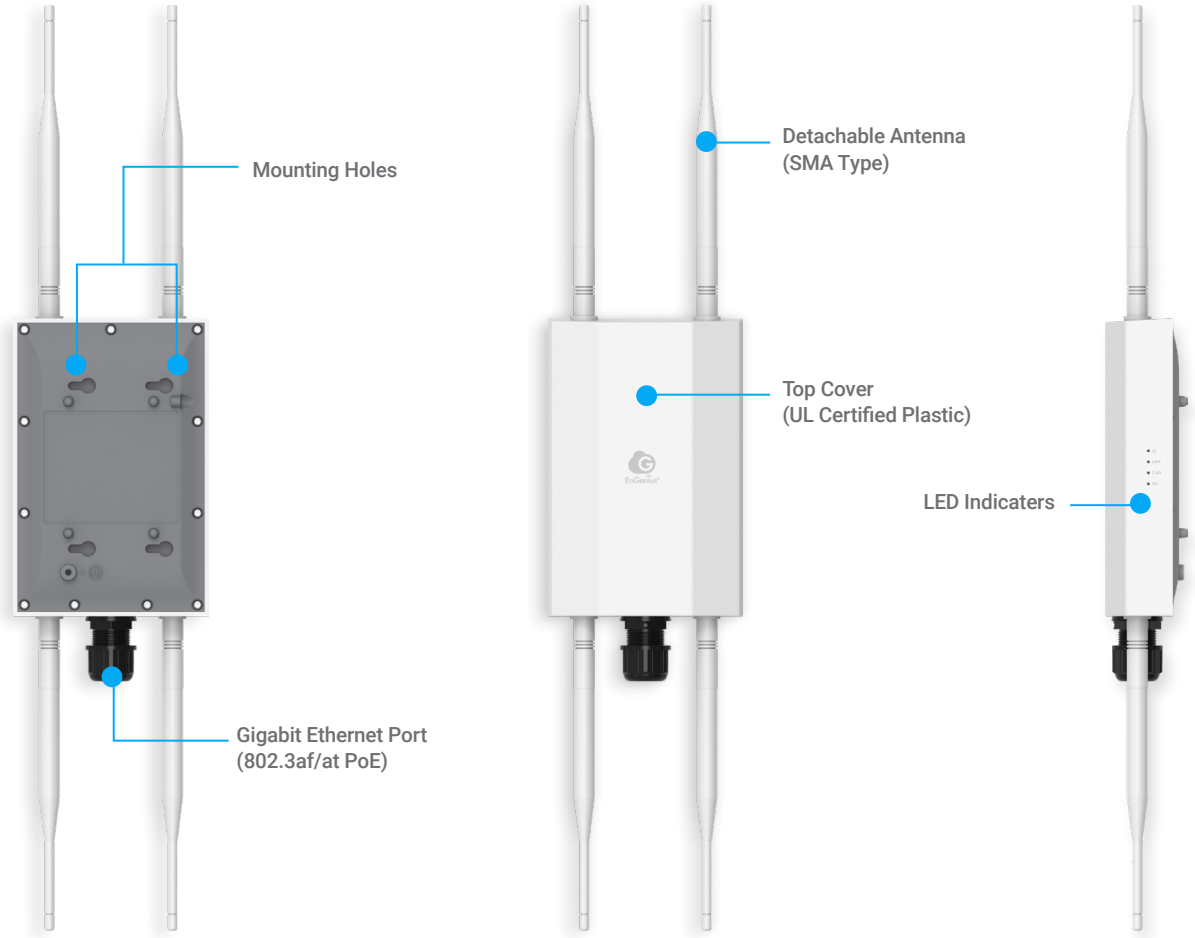


5GHz

E-Plane



Hardware Overviews



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