

ECW560



Cloud7 2x2 Outdoor Cloud Managed Wi-Fi 7 2x2 Outdoor Access Point

Overview

The EnGenius ECW560 brings dual-concurrent 802.11be Wi-Fi 7 to demanding outdoor deployments — from stadiums and campuses to warehouses and waterfront venues. With aggregate throughput up to 3.6 Gbps, an IP66-rated enclosure, and a 2.5 GbE PoE uplink, the ECW560 delivers the speed, coverage, and resilience that modern high-density environments require. Centralized management through the EnGenius Cloud platform scales from a single site to thousands of APs — with no device-count limit.



Features & Benefits

- Dual-concurrent 802.11be Wi-Fi 7, backward-compatible
- Up to 2,900 Mbps (5 GHz) & 700 Mbps (2.4 GHz)
- IP66-rated weatherproof & dustproof housing
- 2.5 GbE uplink with 802.3at PoE and PoE injector support (up to 100 m / 328 ft)
- Four detachable 5 dBi antennas (2× 2.4 GHz + 2× 5 GHz)
- WPA3 & WPA2-AES authentication
- Cloud-managed AP & Mesh modes
- Quick-scan registration & configuration
- Remote monitoring & troubleshooting via the EnGenius Cloud App
- Self-healing mesh simplifies setup & optimizes signal

Technical Specifications

General

Standards

IEEE 802.11be on 2.4 GHz
IEEE 802.11be on 5 GHz
Backward compatible with 802.11a/b/g/n/ac/ax
IEEE 802.3 u/ab

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+)
1 x 2.5GE Port
1 x Reset Button

LED Indicators

1 x Multi-color LED

Power Source

Power-over-Ethernet: 802.3at Input

Maximum Power Consumption

22.5W

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, 5850MHz ~ 5895MHz

Transmit Power

Up to 26 dBm on 2.4 GHz
Up to 26 dBm on 5 GHz
(Maximum power is limited by regulatory domain)

Radio Chains

2 x 2:2

SU-MIMO Capability

Two(2) spatial stream Single User (SU) MIMO for up to 700 Mbps wireless data rate with EHT40 bandwidth to a 2x2 wireless device under the 2.4GHz radio.
Two(2) spatial stream Single User (SU) MIMO for up to 2,900 Mbps wireless data rate with EHT160 to a 2x2 wireless device under the 5GHz radio.

MU-MIMO Capability

Two(2) spatial stream MU-MIMO for up to 700 Mbps wireless data rate with EHT40 bandwidth to a 2x2 wireless device under the 2.4GHz radio.
Two(2) spatial stream MU-MIMO for up to 2,900 Mbps wireless data rate with EHT160 to a 2x2 wireless device under the 5GHz radio simultaneously.

Supported Data Rates

802.11be:
2.4 GHz: Max 700 (MCS0 to MCS13, NSS = 1 to 2)
5 GHz: Max 2,900 (MCS0 to MCS13, NSS = 1 to 2)
802.11ax:
2.4 GHz: 9 to 574 (MCS0 to MCS11, NSS = 1 to 2)
5 GHz: 18 to 1,200 (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

802.11be/ax: Orthogonal Frequency Division Multiple Access(OFDMA)
802.11a/g/n/ac: Orthogonal Frequency Division Multiple (OFDM)
802.11b: Direct-sequence spread-spectrum (DSSS)

Channelization

802.11be supports extreme high efficiency (EHT) —EHT 20/40/80/160MHz
802.11ax supports high efficiency throughput (HE) —HE 20/40/80/160 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

802.11be: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
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

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

Technical Specifications

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: -4°~140°F/-20°C~60°C
Storage: -40°F~176°F/-40°C~80°C

Humidity (non-condensing)

Operating: 90% or less
Storage: 90% or less

IP Rating(Outdoor only)

IP66

Surge Protection (Outdoor only)

1KV

ESD Protection(Outdoor only)

Contact: 4KV Air: 8 K

Dimensions & Weight

Weight

1242g

Dimensions

Width: 152 mm
Length: 220 mm
Height: 44 mm

Package Contents

1 – ECW560 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 – Product Card

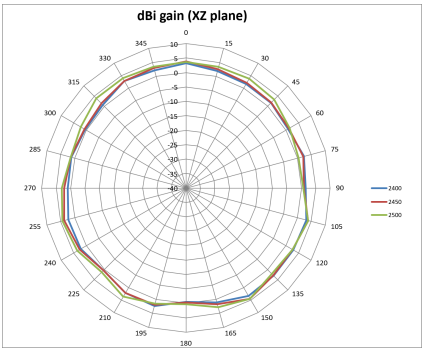
Compliance

Regulatory Compliance

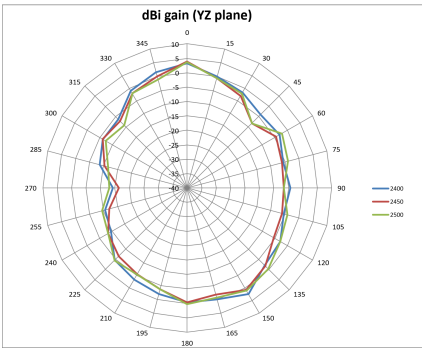
FCC
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Antennas Patterns

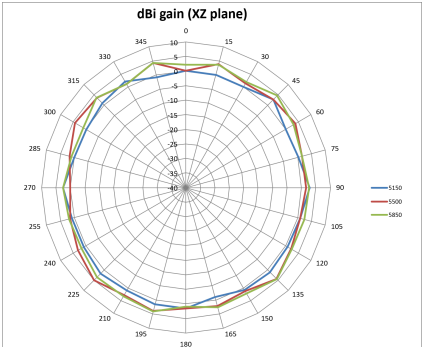
2.4GHz H-Plane



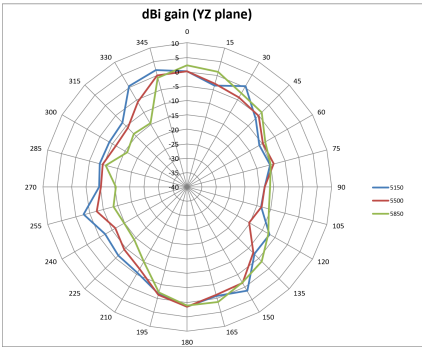
2.4GHz E-Plane



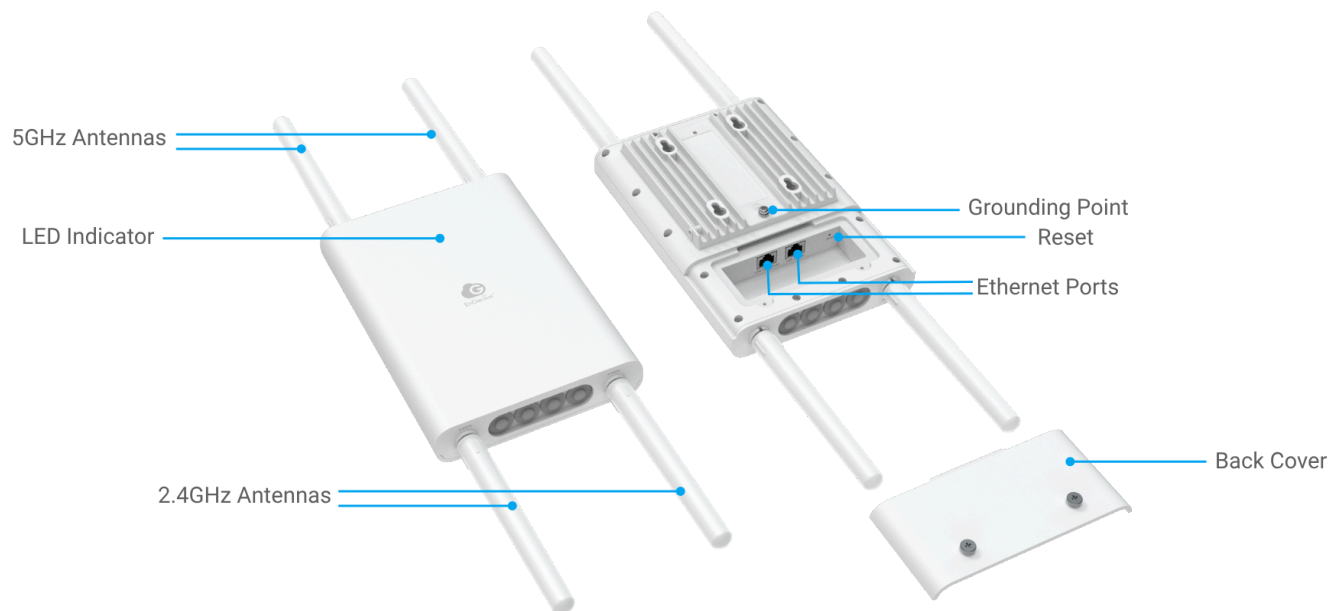
5GHz H-Plane



5GHz E-Plane



Hardware Overview



Features and specifications subject to change without notice. Trademarks and registered trademarks are the property of their respective owners. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense. Prior to installing any surveillance equipment, it is your responsibility to ensure the installation is in compliance with local, state and federal video and audio surveillance and privacy laws.

