



Cloud6 4x4 Outdoor

Cloud Managed Wi-Fi 6 4 x 4 Outdoor Access Point

Overview

EnGenius Cloud Managed Wi-Fi 6 4x4 Access Point ECW270 supports dual concurrent 802.11ax with backward compatibility, providing up to 2,400 Mbps in the 5 GHz band and 1,200 Mbps in the 2.4 GHz band. Its IP68-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 2,400 Mbps in 5 GHz band & 1,200 Mbps in 2.4 GHz band
- IP68-Rated weatherproof & dustproof housing withstands harsh environments
- 1 x 2.5 Giga PoE++ compatible port realizes greater throughput and supports Power over Ethernet (802.3bt) for flexible installation over 100 meters (328 feet)
- 1 x Gigabit Port
- Four detachable 5 dbi high-gain 2.4GHz antennas
- Four detachable 7 dbi high-gain 5GHz antennas
- Quick-scan device register & configuration and remote monitoring & troubleshooting
- Cloud manage an unlimited number of APs from anywhere with the EnGenius Cloud App

Technical Specifications

Technical Specifications

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(External Omni-Directional)

4 x 5 GHz: 7 dBi(External Omni-Directional)

Physical Interfaces

1 x GE Port

1 x 2.5GE Port (PoE++)

LED indicators

1 x Power

1 x LAN1

1 x LAN2

1 x 2.4 GHz

1 x 5 GHz

Power Source

Power-over-Ethernet: 802.3bt Input

Active Ethernet (PoE++)

Maximum Power Consumption

46W

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 24 dBm on 2.4 GHz

Up to 24 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 MCS11, 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

CE

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: -4°~149°F/-20°C~65°C

Storage: -40°F~-176°F/-40°C~80°C

Humidity (non-condensing)

Operating: 90% or less

Storage: 90% or less

IP Rating

IP68

Surge Protection

1KV

ESD Protection

Contact: 4KV Air: 8 K

Dimensions & Weight

Weight

1870g

Dimensions

218 x 285 x 53 mm

Package Contents

1 – ECW270 Cloud Managed Outdoor Access Point

2 – Mounting Brackets

1 – Wall-Mount Screw Set

4 – 2.4GHz 5dBi Detachable Antennas

4 – 5GHz 7dBi Detachable Antennas

1 – Quick Installation Guide

Compliance

Regulatory Compliance

FCC

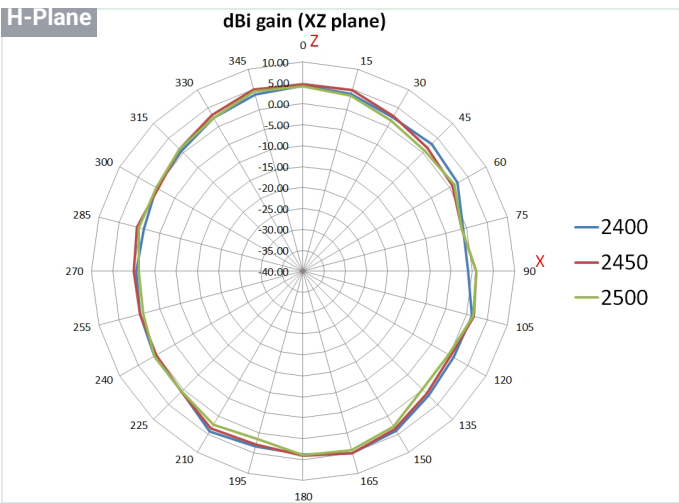
CE

IC

Antennas Patterns

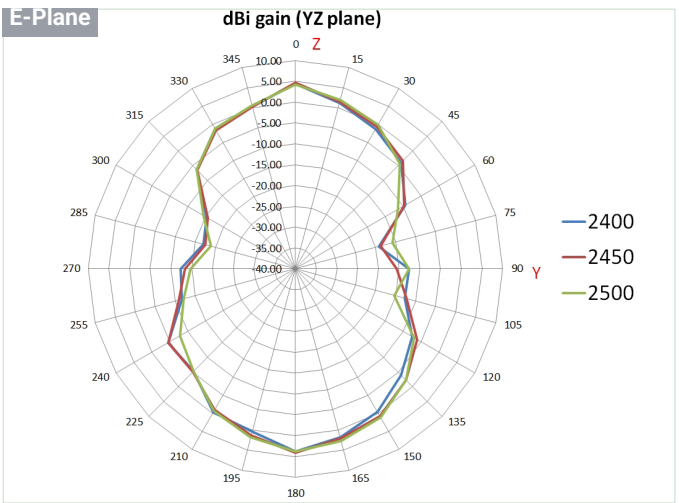
2.4GHz

H-Plane



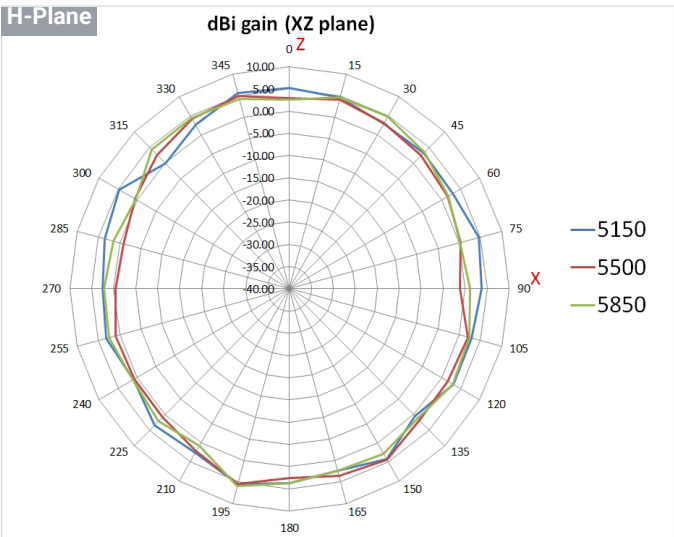
2.4GHz

E-Plane



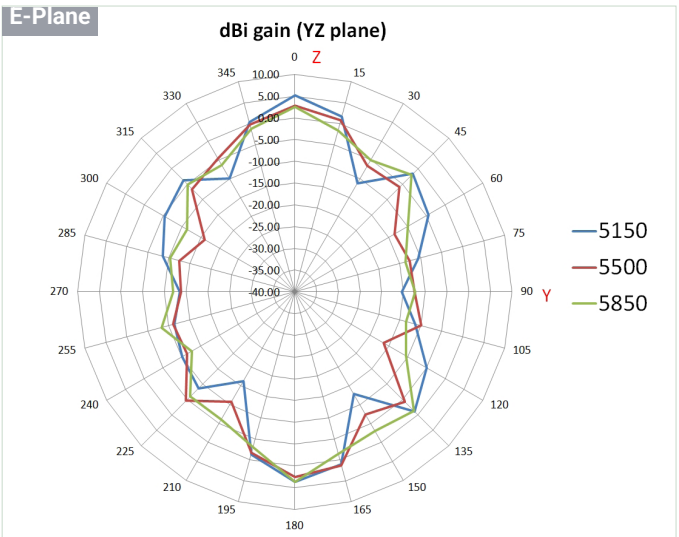
5GHz

H-Plane

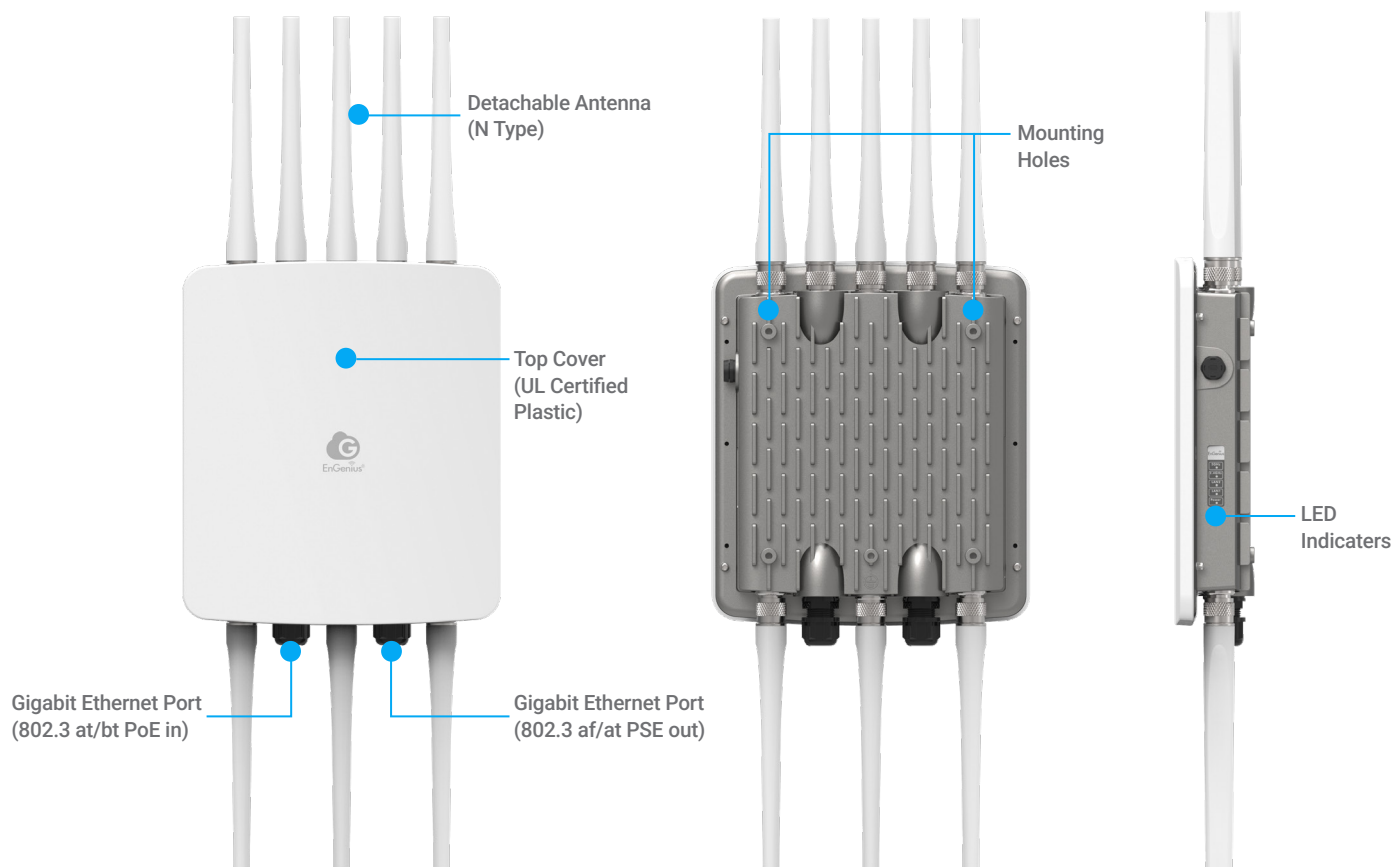


5GHz

E-Plane



Hardware Overviews



EnGenius Networks Japan 株式会社 | Tokyo, Japan

Email: jp.support@engeniustech.com
Website: www.engeniustech.com/jp
Local contact: (+81) 3 6809 6608

EnGenius Networks Europe B.V. | Eindhoven, Netherlands

Email: support@engeniustech.com
Website: www.engeniustech.com/eu
Local contact: (+31) 40 8200 887

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

EnGenius Technologies | Costa Mesa, California, USA

Email: support@engeniustech.com
Website: www.engeniustech.com
Local contact: (+1) 714 432 8668

EnGenius Networks Singapore Pte Ltd. | Singapore

Email: techsupport-sg@engeniustech.com
Website: www.engeniustech.com/apac
Local contact: (+65) 6227 1088

EnGenius Technologies Canada | Ontario, Canada

Email: support@engeniustech.com
Website: www.engeniustech.com
Local contact: (+1) 905 940 8181

EnGenius Networks Dubai | Dubai, UAE

Email: support-me@engeniustech.com
Website: www.engeniustech.com/apac
Local contact: (+971) 4 339 1227

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.

Version 1.2 06/ 16/ 2025

EnGenius®