ENH500-AX

Station6 2x2 Patch

EnGenius Station Wi-Fi 6 2x2 5GHz Outdoor Long Range CPE

Overview

The EnGenius Station Wi-Fi 6 2x2 5GHz Outdoor Long Range CPE offers reliable and efficient outdoor Wi-Fi connectivity with Wi-Fi 6 technology and beamforming optimization. It features high 26 dBm transmit power and high gain 16 dBi integrated directional antenna for extended Wi-Fi range up to 5 miles point-to-point. It's also weatherproof and offers flexible operation modes with easy installation over 100 meters.

Features & Benefits

- Wi-Fi 6 technology for high-performance and efficiency Wi-Fi in outdoor environments
- Beamforming optimizes antenna signal, reception & reliability for clients
- 2x2 directional antennas to support up to 1200 Mbps in 5-GHz
- High 26 dBm transmit power extends Wi-Fi to yard or building-to-building
- High gain 16 dBi Integrated directional antenna extend wireless networks up to 5 miles point-to-point
- IP55-rated weatherproof & dustproof housing
- Flexible Operation Modes: Access Point, Station, WDS Access Point, WDS Station, Repeater
- Gigabit Ethernet PoE port supports flexible power options

Technical Specifications

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Standards

802.11a/n/ac/ax

Antenna - 5GHz

16dBi

Physical Interfaces

1 x 10/100/1000 BASE-T(Proprietary PoE)

1 x 10/100/1000 BASE-T

Proceed reset and reboot when pushing this button

LED indicators

1 x Power

1 x LAN

1 x WLAN

3 x Signal

Power Source

Proprietary 54V (EPA5006GR)

Maximum Power Consumption

PoE: Max. 13W

Wireless & Radio Specifications

Operating Frequency

Single band 5 GHz

Operation Modes

AP/STA/WDS AP/WDS STA/Repeater

Frequency Radio

5 GHz: 5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725 MHz ~ 5850 MHz

Transmit Power

26 dBm

Radio Chains

2 × 2:2

SU-MIMO

Two (2) spatial stream Single User (SU) MIMO for up to 1,200 Mbps wireless data rate with VHT80 to a 2x2 wireless device under the 5GHz radio.

MU-MIMO

Two (2) spatial streams Multiple (MU)-MIMO up to 1,200 Mbps wireless data rate for transmitting to two (2) streams MU-MIMO 11ax capable wireless client devices under 5GHz simultaneously.

Supported Data Rates

802.11ax: 5 GHz: 18 to 1200 (MCS0 to MSC11, 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 Mbps (MCS0 to MCS15)

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

Supported Radio Technology

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

128 per radio

Environmental & Physical

Operating Temperature

-4°~140°F/-20°C~60°C

Storage Temperature

-40F°~176°F/-40°C~80°C

Storage Humidity

Storage: 90% or less

IP Rating(Outdoor only)

IP55

Surge Protection (Outdoor only)

1KV

ESD Protection(Outdoor only)

Contact: 4KV Air: 8 K

Dimensions & Weight

Weight

610g

Dimensions

260 x 84 x 55 mm

Package Contents

1 – ENH500-AX Outdoor CPE

1 – EPA5006GR with AC cord

2 – Pole-Mounting Brackets

1 – Wall-Mount Screw Set

1 – Quick Installation Guide

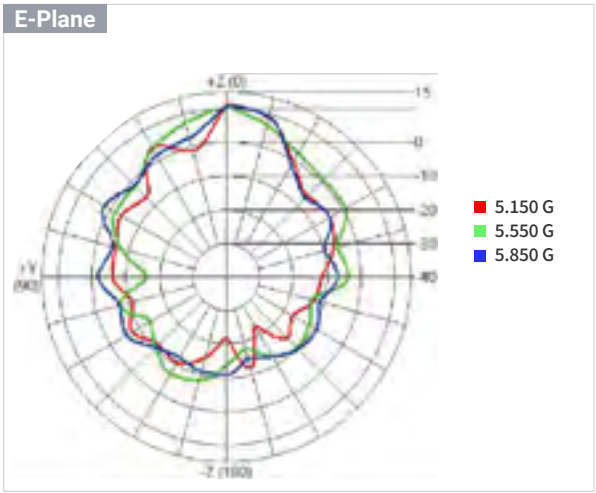
Technical Specifications

Compliance
Safety Compliance
CB
WEEE
Yes
RoHS
Yes
Regulatory Compliance
FCC
CE
IC
UKCA

Antennas Patterns

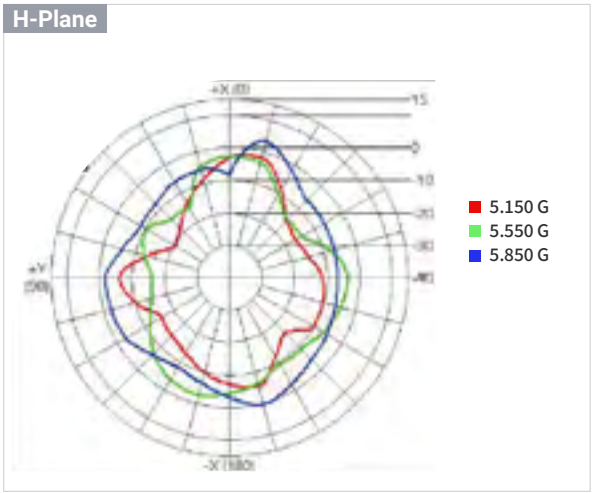
Port1

E-Plane



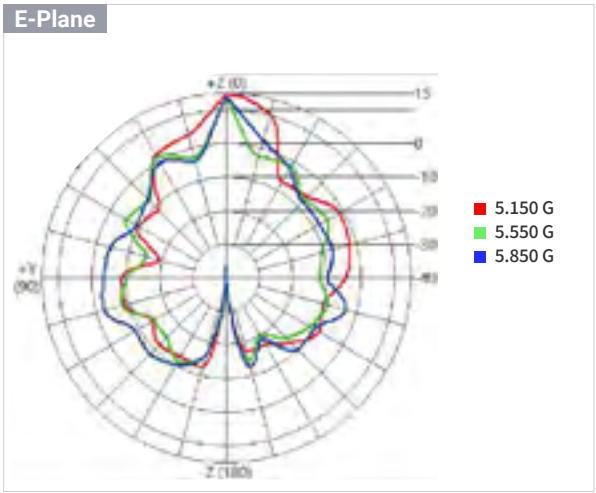
Port1

H-Plane



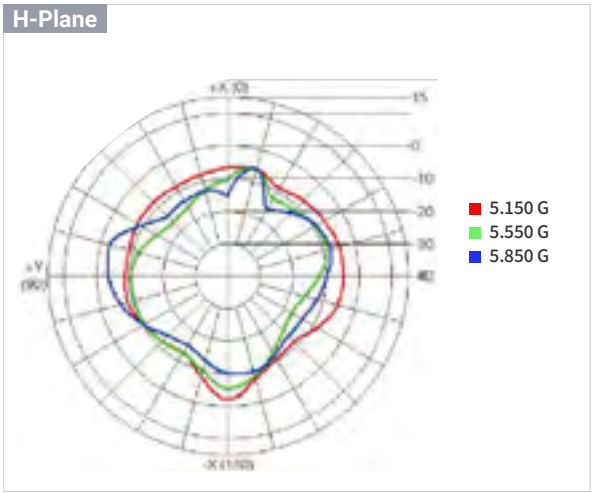
Port2

E-Plane



Port2

H-Plane



Hardware Overviews

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