

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

ENH500-AX

- 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

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 x 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 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 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

127 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

Compliance

Safety Compliance

CB

WEEE

Yes

RoHS

Yes

Regulatory Compliance

FCC

CE

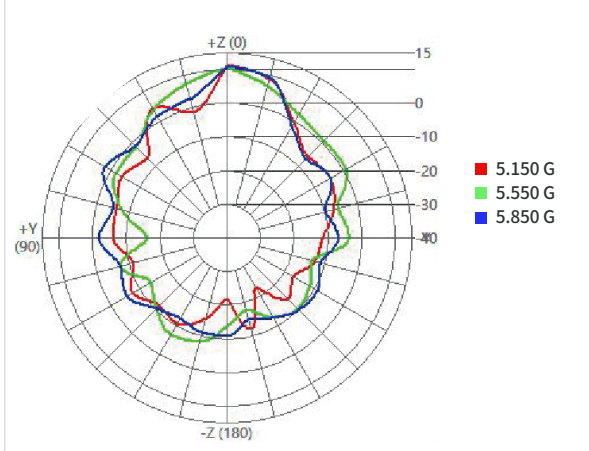
IC

UCKA

Antennas Patterns

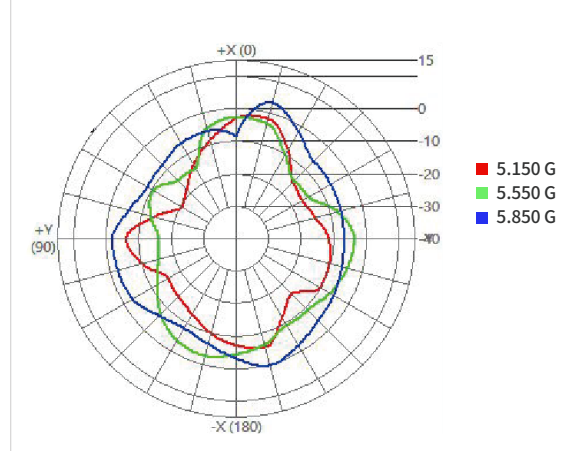
Port1

E-Plane



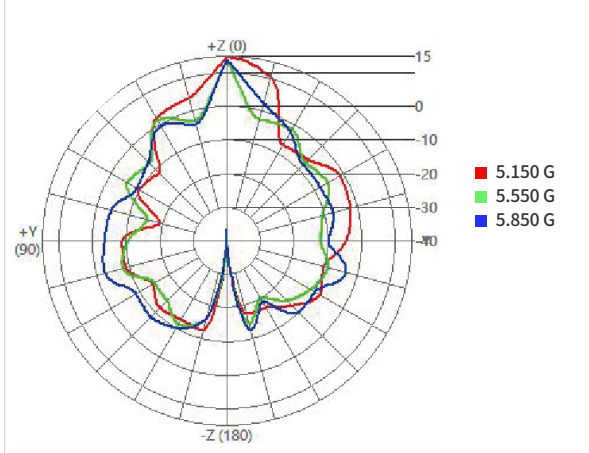
Port1

H-Plane



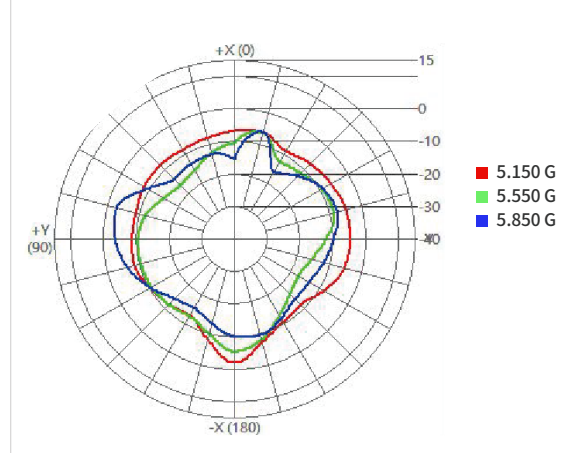
Port2

E-Plane



Port2

H-Plane



Hardware Overviews



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.

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