



Fit6 2x2 Outdoor

EnGenius Fit 802.11ax 2x2 Dual-Band Managed Outdoor Wireless Access Point

Overview

EnGenius Fit6 2x2 Managed Outdoor Wireless Access Point brings Wi-Fi 6 to your outdoor space with lightning speeds of up to 574 Mbps/2.4 GHz and 1,200 Mbps/5GHz for unparalleled performance. Its IP67 weatherproof housing provides a safe haven from the elements while its high gain antenna ensures that you remain connected in even the most remote locations without sacrificing security thanks to WPA3/WPA2-PSK (AES) encryption capabilities.



Features & Benefits

- Dual concurrent 802.11ax architecture and backward compatible with ac/a/b/g/n client devices.
- 360° omni-directional antennas to achieve comprehensive coverage for networking client devices under a pervasive environment.
- 5 dBi integrated 2x2 antenna
- Supports up to 1,200 Mbps in the 5GHz frequency band & 574 Mbps in the 2.4GHz frequency band
- 1x 2.5GE PoE+ port for flexible power options
- Compliance with Proprietary 48V PoE Input for flexible installation and implementing remotely reset/reboot Access Point over 100 meters (328 feet).
- Robust housing with IP67 enclosure rated to deploy at extremely weather .
- WPA3 & WPA2-AES authentication support
- Local and remote management over Fitcon controller without fees

Technical Specifications

Technical Specifications

Standards

802.11a/b/g/n/ac/ax

Antenna - 2.4GHz

5dBi

Antenna - 5GHz

5dBi

Physical Interfaces

1 x 10/100/1000/2500 BASE-T

LED indicators

1 x Power

1 x LAN

1 x 2.4 GHz

1 x 5 GHz

Power Source

PoE 802.3af/at

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 ~ 2482 MHz

5 GHz: 5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725 MHz ~ 5850 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 x 2:2

SU-MIMO

Two (2) spatial stream Single User (SU) MIMO for up to 574 Mbps wireless data rate with HE40 bandwidth to a 2x2 wireless client device under the 2.4GHz radio.

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.

Two (2) spatial streams Multiple (MU)-MIMO up to 574 Mbps wireless data rate for transmitting to two (2) 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 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

-40°F~-176°F/-40°C~80°C

Storage Humidity

Storage: 90% or less

IP Rating

IP67

Surge Protection

1KV

ESD Protection

Contact: 4KV Air: 8 K

Technical Specifications

Dimensions & Weight

Weight

720 g

Dimensions

190x 124 x 47 mm

Package Contents

1 – EWS850-FIT 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

1 – EPA5006GR PoE Injector

Compliance

Safety Compliance

CB

WEEE

Yes

RoHS

Yes

Regulatory Compliance

FCC

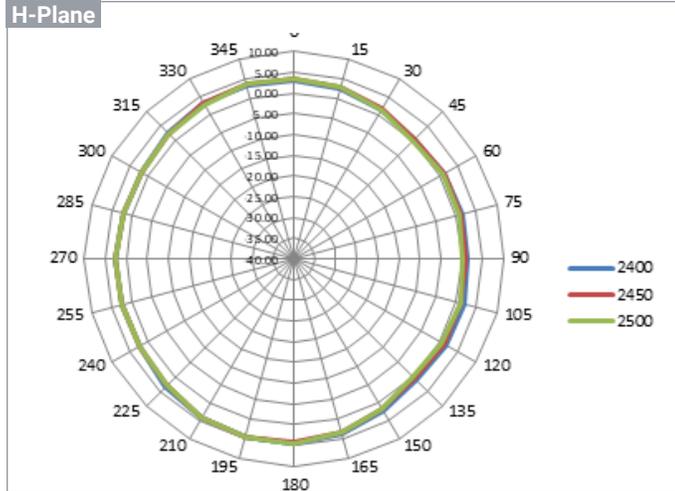
CE

IC

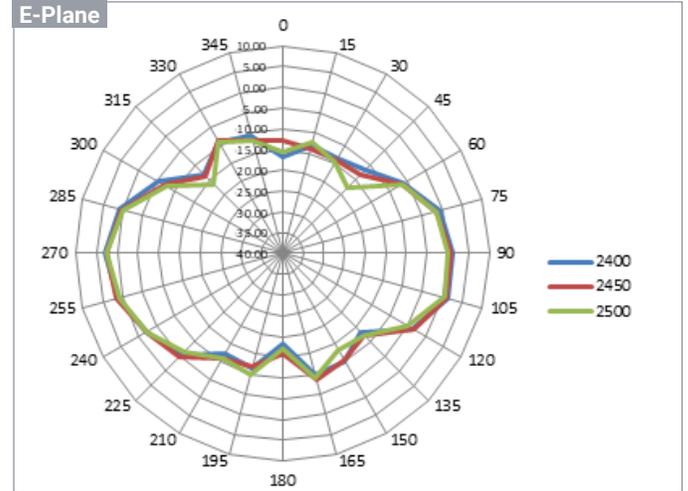
UKCA

Antennas Patterns

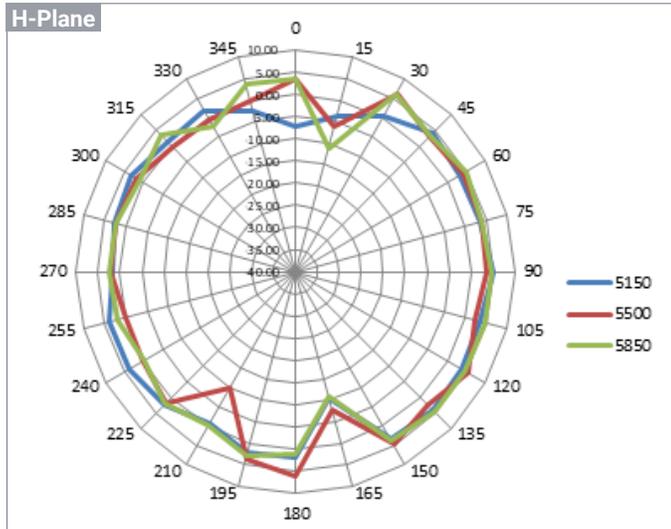
2.4GHz



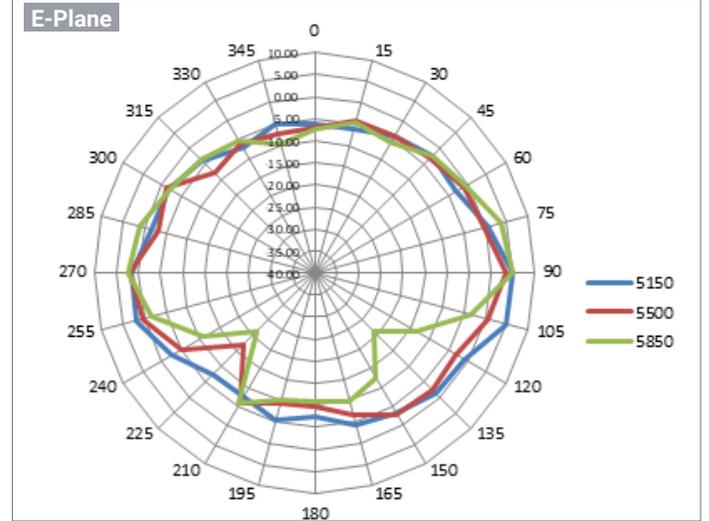
2.4GHz



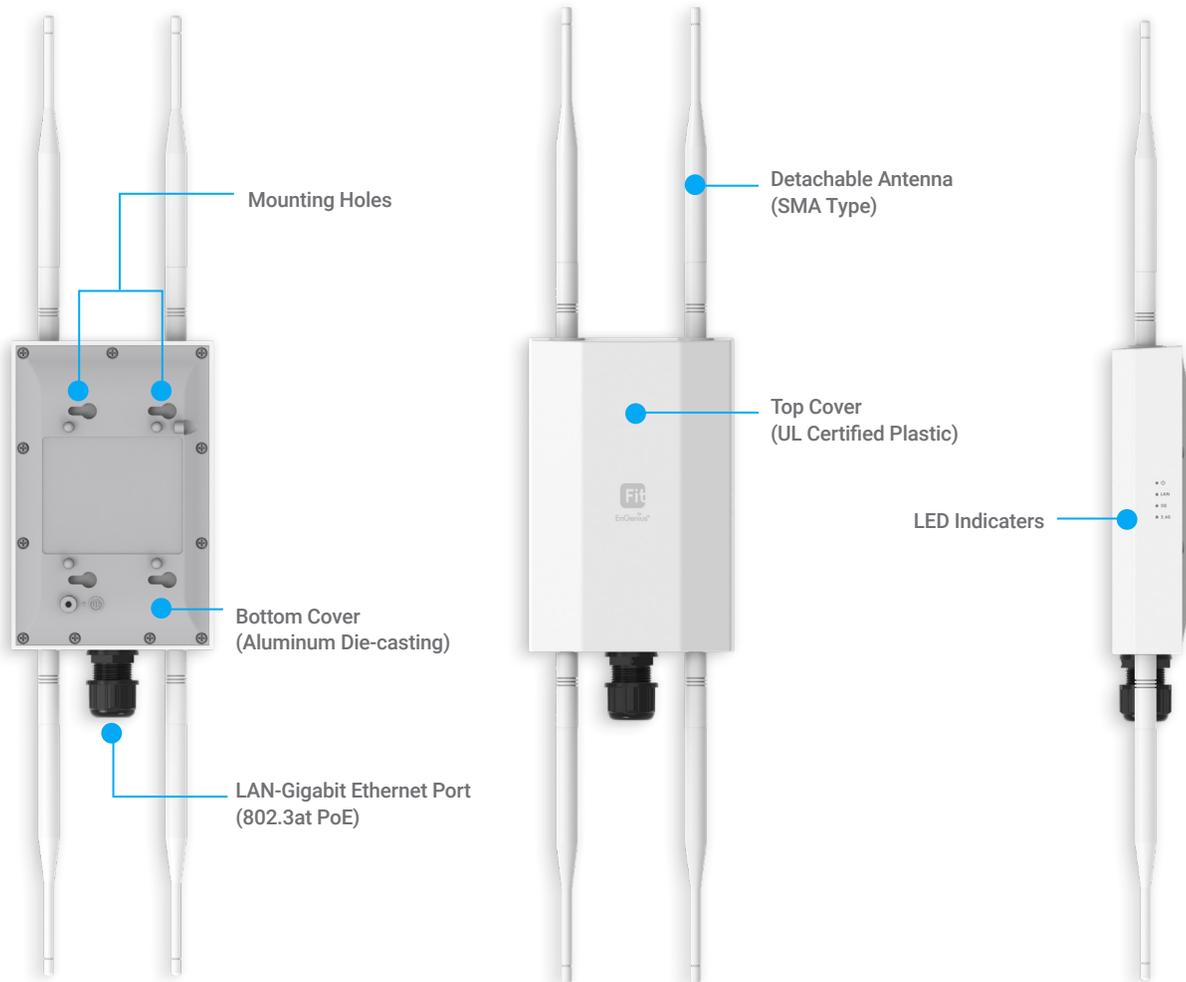
5GHz



5GHz



Hardware Overviews



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@engeniustech.com.sg
Website: www.engeniustech.com.sg
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@engeniustech-me.com
Website: www.engeniustech-me.com
Local contact: (+971) 4 339 1227

EnGenius Networks Europe B.V. | Eindhoven, Netherlands

Email: support@engeniustech.com
Website: www.engeniustech.com
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

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 1.0 11222023

