EWS356-FIT

Fit6 2x2 Lite

802.11ax 2×2 Managed Dual Band Wireless Indoor Access Point

Overview

EnGenius Fit6 2x2 Lite Managed Indoor Wireless Access Point offers advanced 802.11ax technology, granting users incredibly speedy and efficient performance with a maximum theoretical speed of 574 Mbps on the 2.4GHz frequency and an incredible 2,400Mbps on 5GHz frequency! Furthermore it's safeguarded by top-tier WPA3/ WPA2PSK AES encryption protocols for unparalleled security.



Features & Benefits

- Dual concurrent 802.11ax architecture & backward-compatible with 11ac/a/b/ g/n client devices
- WPA3 & WPA2-AES authentication support
- 5 dBi integrated 2x2 antenna
- Supports up to 2,400 Mbps in the 5GHz frequency band & 574 Mbps in the 2.4GHz frequency band
- Support 5GHz DFS channels
- Local and remote management over Fitcon controller without fees
- 1x GE PoE port for easy placement up to 328 feet from a power source
- Choice of AP and WDS modes to meet your management & deployment requirements

Technical Specifications

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Standards

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

Antenna - 2.4GHz

4dBi

Antenna - 5GHz

5dBi

Physical Interfaces

1 x 10/100/1000 BASE-T

DC12V

Reset/Reboot button

LED indicators

1 x Multi-color LED

Power Source

PoE 802.3af

DC12V

Maximum Power Consumption

10.7W

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 21 dBm on 2.4 GHz

Up to 21 dBm on 5 GHz

(Maximum power is limited by regulatory domain)

Radio Chains

2 × 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 2,400 Mbps wireless data rate with HE160 to a 2x2 wireless device under the 5GHz radio.

MU-MIMO

Two (2) spatial streams Multiple (MU)-MIMO up to 2,400 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 2400 (MCS0 to MSC11, 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 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 20/40/80/160 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

802.11ax: 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

32°F~104°F (0 °C~40 °C)

Storage Temperature

-40 °F~176 °F (-40 °C~80 °C)

Storage Humidity

Storage: 90% or less

Dimensions & Weight

Weight

380 g

Dimensions

160 x 160 x 30 mm

Package Contents

1 – EWS356-FIT Indoor Access Point

1 – Ceiling Mount Base (9/16" Trail)

1 – Ceiling Mount Base (15/16" Trail)

1 – Ceiling and Wall Mount Screw Kit

1 – Quick Installation Guide

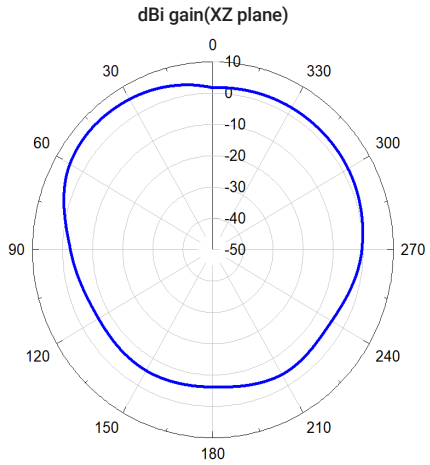
Technical Specifications

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

Antennas Patterns

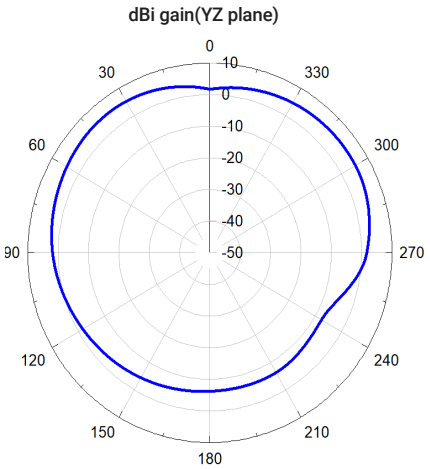
2.4GHz

H-Plane



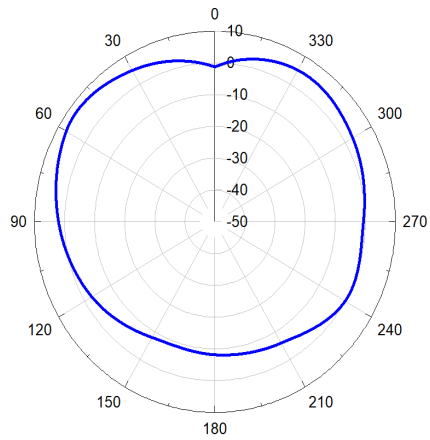
2.4GHz

E-Plane



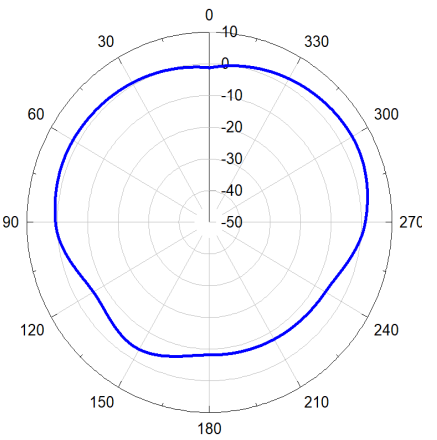
5GHz

H-Plane



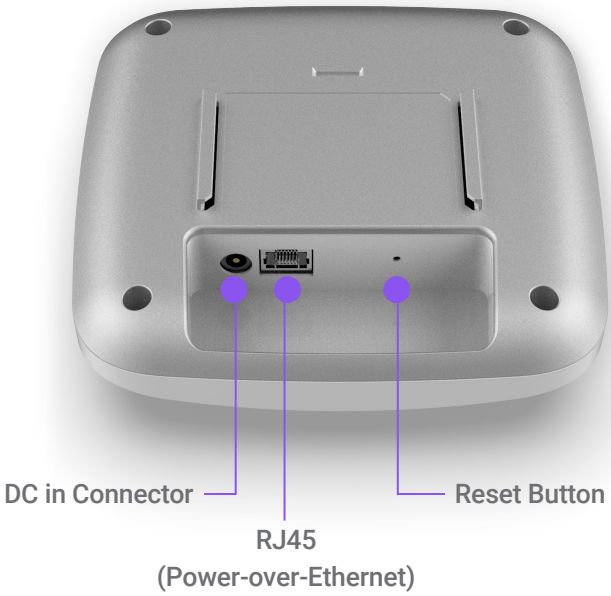
5GHz

E-Plane



Hardware Overviews





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