



Fit6 2x2 Lite

EnGenius Fit 802.11ax 2x2 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

Technical Specifications
Standards
802.11a/b/g/n/ac/ax
Antenna - 2.4GHz
6dBi
Antenna - 5GHz
7dBi
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 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 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 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 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

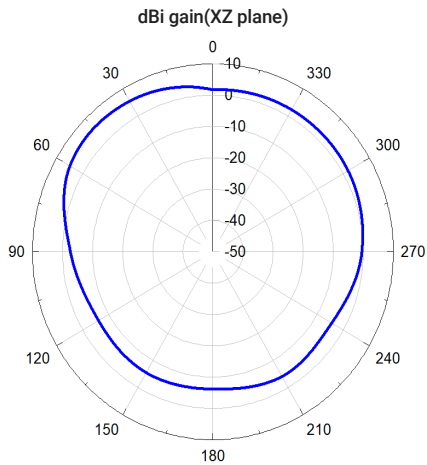
Technical Specifications

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

Antennas Patterns

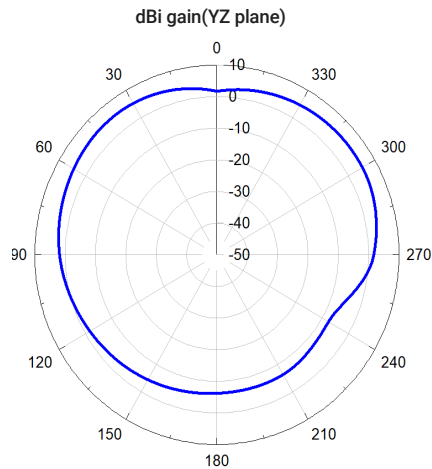
2.4GHz

H-Plane



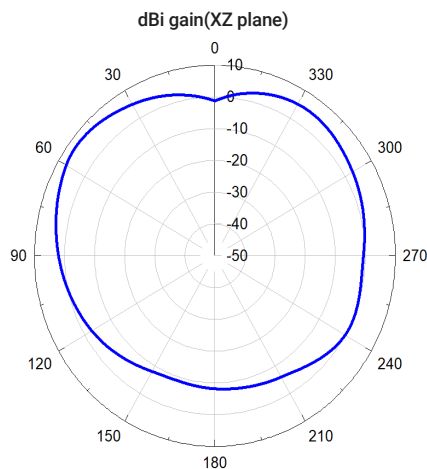
2.4GHz

E-Plane



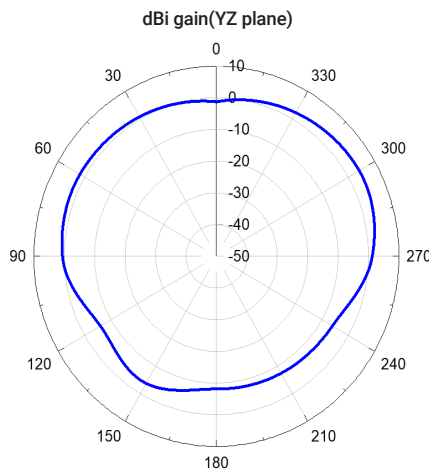
5GHz

H-Plane

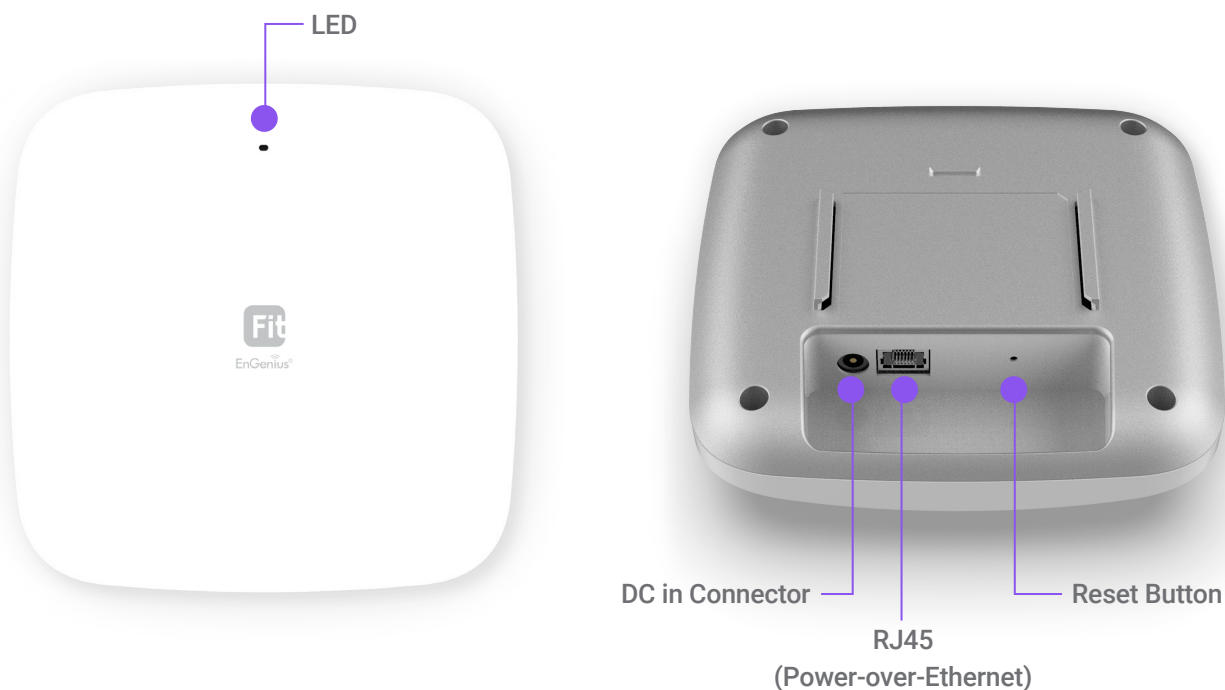


5GHz

E-Plane



Hardware Overviews



EnGenius Technologies | California, USA | Ontario, Canada

Email: support@engeniustech.com
Website: www.engeniustech.com
Local contact (USA): (+1) 714 432 8668
Local contact (Canada): (+1) 905 940 8181

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 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 Singapore Pte Ltd. | Singapore

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

EnGenius Networks Private Limited | Hyderabad, India

Email: indiasales@engeniustech.com
Website: www.engeniustech.com/in
Local contact: (+91) 9845514455

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 1.3 04/22/2025

EnGenius®