



EWS357-Fit



EnGenius Fit Wi-Fi 6 2x2 Indoor Wireless Access Point

Simple • Secure • Smart



The EnGenius Fit Managed EWS357-Fit Wi-Fi 6 2x2 dual-band indoor wireless access point is a business-class device that provides secure and reliable high performance while reducing capital and operating expenses for cost-conscious small businesses. With support for the latest 802.11ax technology, this access point is capable of delivering maximum speeds of 574 Mbps (2.4 GHz frequency) and 1,200 Mbps (5 GHz frequency).

Manage your network onsite or on-the-go through our **FitXpress** cloud-based mobile app or web portal. Additionally, **FitController** gives you greater control of your network using plug-n-play hardware with embedded network management software. Admins can easily view detailed analytics from a single pane of glass as well as monitor and troubleshoot issues instantly.

Features & Benefits

- Dual concurrent 802.11ax architecture & backward-compatible with 11ac/a/b/g/n client devices; 2x2 antenna.
- Supports up to 1,200 Mbps in 5-GHz frequency band & 574 Mbps in 2.4-GHz frequency band.
- Manage your network onsite or on-the-go through our **FitXpress** cloud-based mobile app or web portal.
- **FitController** gives you greater control of your network using plug-n-play hardware with embedded network management software.
- Setup in minutes with app-based step by step instructions.
- Quick-scan device register, remote monitoring, and troubleshooting.
- Real-time system metrics, analytics, and remote configurations.
- No access point licensing or subscription fees.
- Uplink and downlink of OFDMA improves transmission to APs and client devices.
- Target wake time for power-saving of client & IoT devices.
- Uplink & downlink of MU-MIMO for optimal signal & reception reliability for up to 2 devices.
- BSS coloring for tagging packets with a “color” to differentiate between adjacent basic service sets.
- Spatial reuse identifies color sets via BSS coloring & simultaneously transmits on the same channel, reducing transmission waiting time and contention.
- GigE PoE-Compliance with 802.3af & 48V PoE input for flexible installation up-to 328 feet.
- Mesh wireless support simplifies setup, optimizes signals & self-heals.

Technical Specifications

EWS357-Fit

Standards

IEEE 802.11ax on 2.4 GHz

IEEE 802.11ax on 5 GHz

Backward compatible with 802.11a/b/g/n/ac

Processor

Qualcomm® Quad-Core CPU ARM Cortex A53s @ 1.0GHz

Antenna

2 x 2.4 GHz: 4 dBi

2 x 5 GHz: 5 dBi

Integrated Omni-Directional Antenna

Physical Interface

1 x 10/100/1000 BASE-T, RJ-45 Ethernet Port

1x DC Jack

1 x Reset Button

LED Indicators

1 x Power

1 x LAN

1 x 2.4 GHz

1 x 5 GHz

Power Source

Power-over-Ethernet: 802.3af Input

12VDC /1.5A

Maximum Power Consumption

12.8W

Wireless & Radio Specifications

Operating Frequency

Dual-Radio Concurrent 2.4 GHz & 5 GHz

Operation Modes

AP, 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 22 dBm on 2.4 GHz

Up to 22 dBm on 5 GHz

Tx Beamforming (TxBF)

Radio Chains/Spatial Stream

2x2:2

SU-MIMO

Two (2) spatial streams SU-MIMO for 2.4GHz and two (2) spatial streams SU-MIMO for 5GHz up to 1,774Mbps wireless data rate to a single 11ax wireless client device under both the 2.4GHz and 5GHz radios.

MU-MIMO

Two (2) spatial streams Multiple (MU)-MIMO for up to 1200 Mbps wireless data rate to transmit to one (1) two streams MU-MIMO 11ax capable wireless client devices under 5GHz simultaneously.

Two (2) multiple (MU)-MIMO for up to 574 Mbps wireless data rate to transmit to one (1) two streams MU-MIMO 11ax capable wireless client devices under 2.4GHz simultaneously.

Supported Data Rates (Mbps)

802.11ax:

- 2.4 GHz: 9 to 574 (MCS0 to MCS11, NSS = 1 to 2)
- 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 Technologies

802.11ax: Orthogonal Frequency Division Multiple Access (OFDMA)

802.11b: Direct-sequence spread-spectrum (DSSS)

802.11ac/a/g/n: Orthogonal Frequency Division Multiple (OFDM)

Channelization

802.11ax supports high efficiency (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 very high throughput under the 2.4GHz radio—VHT40 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

Management

Multiple BSSID

8 SSIDs for both 2.4GHz and 5GHz radios.

VLAN Tagging

Supports 802.1q SSID-to-VLAN Tagging

Cross-Band VLAN Pass-Through

Management VLAN

Spanning Tree

Supports 802.1d Spanning Tree Protocol

QoS (Quality of Service)

Compliant With IEEE 802.11e Standard

WMM

SNMP

v1, v2c, v3

MIB

I/II, Private MIB

Wireless Security

WPA3

WPA2 Enterprise (AES)

WPA2 AES-PSK

Hide SSID in Beacons

MAC Address Filtering, Up to 32 MACs per SSID

Wireless STA (Client) Connected List

SSH Tunnel

Client Isolation

Environment & Physical**Temperature Range**

Operating: 32°F~104°F (0 °C~40 °C)

Storage: -40 °F~176 °F (-40 °C~80 °C)

Humidity (non-condensing)

Operating: 90% or less

Storage: 90% or less

Dimensions & Weights

Device EWS357-Fit

Weight: 0.85 lbs. (382 g)

Length: 6.30" (160 mm)

Width: 6.30" (160 mm)

Height: 1.31" (33.2 mm)

Packaging

Weight: 1.28 lbs. (580 g)

Length: 8.07" (205 mm)

Width: 8.07" (205 mm)

Height: 3.27" (83 mm)

Package Contents

1 - EWS357-Fit Cloud Managed Indoor Access Point

1 - Ceiling Mount Base (9/16" Trail)

1 - Ceiling Mount Base (15/16" Trail)

1 - Ceiling and Wall Mount Screw Kits

1 - Quick Installation Guide

Certifications

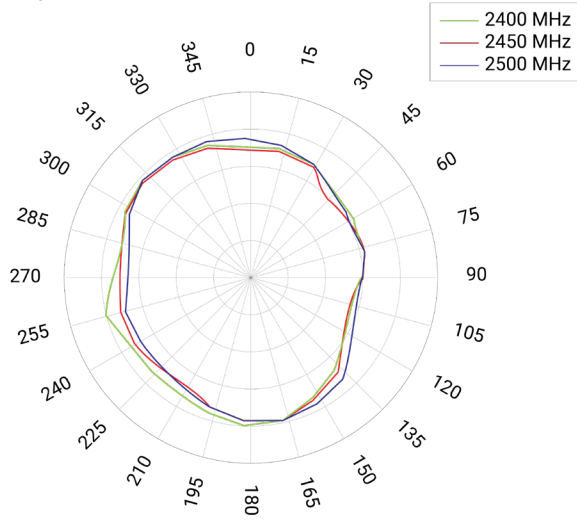
FCC, CE, IC

Warranty

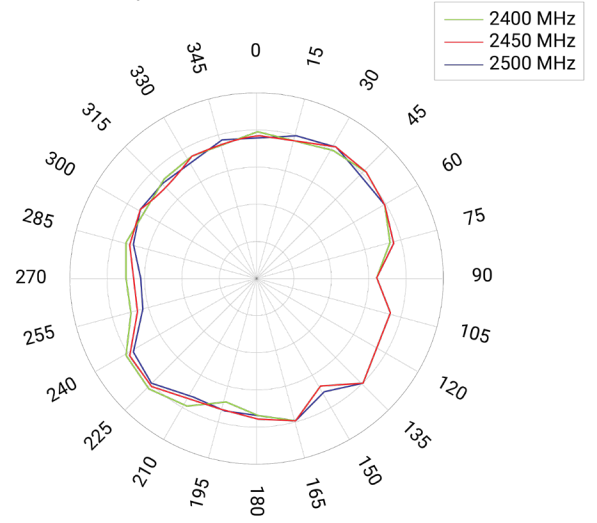
1 Year

Antennas Patterns

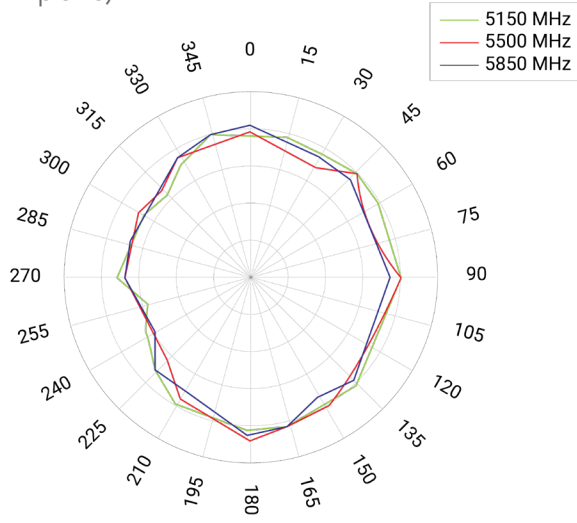
dBi Gain (XY plane)



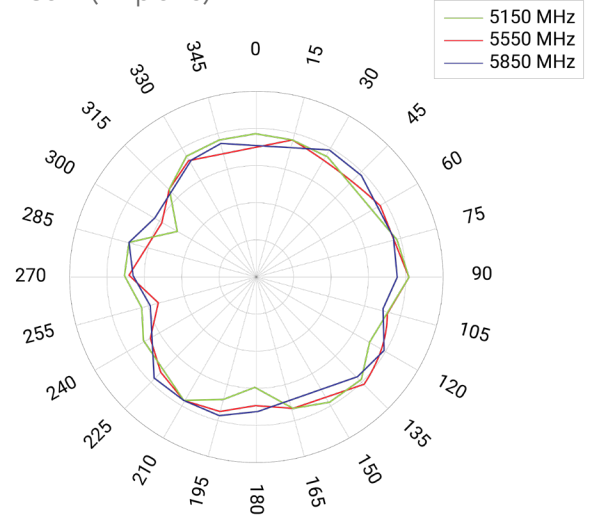
dBi Gain (YZ plane)



dBi Gain (XY plane)

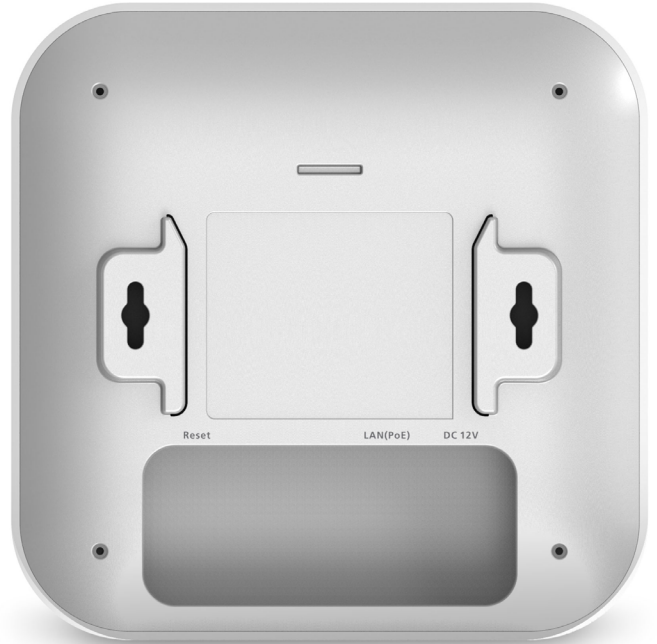


dBi Gain (YZ plane)

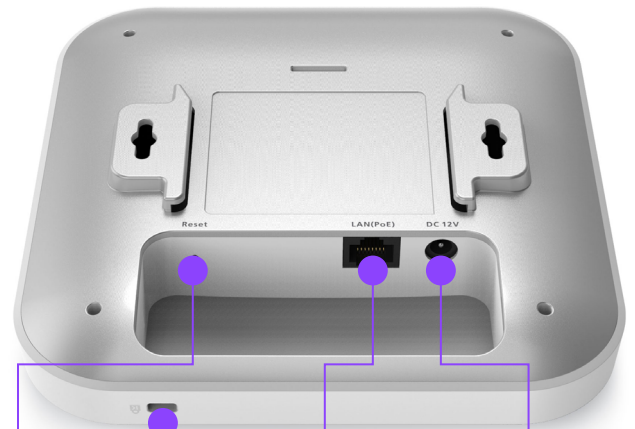


Product Images

LED Indicators



Kensington Security Slot



Reset Button Kensington Security Slot 2.5Gbps LAN (PoE, 802.3af/at) Power Connector