EnGenius

Datasheet

EWS377-FIT

EnGenius Fit Managed EWS377-FIT Wi-Fi 6 4x4 Indoor Wireless Access Point

Simple • Secure • Smart

Product Highlights

The EnGenius Fit Managed EWS377-FIT Wi-Fi 6 4x4 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 1,148 Mbps (2.4 GHz frequency) and 2,400 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; 4x4 antenna.
- Supports up to 2,400 Mbps in 5-GHz frequency band & 1,148 Mbps in 2.4-GHz frequency band.
- 2.5 GbE realizes greater throughput and supports 802.3at & 48V PoE input for flexible installation over 100 meters (328 feet).
- 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.
- 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.
- Uplink & downlink of MU-MIMO for optimal signal & reception reliability for up to 2 devices.
- Target wake time for power-saving of client & IoT 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.
- Mesh wireless support simplifies setup, optimizes signals & self-heals.

Technical Specifications

EWS377-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 ARM Cortex A53s @ 2.0GHz CPU
Antenna
4 x 2.4 GHz: 5 dBi
4 x 5 GHz: 6 dBi
Integrated Omni-Directional Antenna
Physical Interface
1 x 10/100/1000/2500 N-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: 802.3at Input
12VDC /2A
Maximum Power Consumption
19.5W
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 23 dBm on 2.4 GHz
Up to 23 dBm on 5 GHz
(Maximum power is limited by regulatory domain)
TX BEAMFORMING (TXBF)
Radio Chains/Spatial Stream
4x4:4
SU-MIMO
Four (4) spatial stream SU-MIMO for 2.4GHz and four spatial stream SU-MIMO for 5GHz up to 3,548 Mbps wireless data rate to a single wireless client device under both the 2.4 GHz and 5GHz radios.
MU-MIMO
Four (4) spatial streams Multiple (MU)-MIMO for up to 2400 Mbps wireless data rate to transmit to two (2) two streams MU-MIMO 11ax capable wireless client devices under 5GHz simultaneously.
Four (4) multiple (MU)-MIMO for up to 1,148 Mbps wireless data rate to transmit to two streams MUMIMO 11ax capable wireless client devices under 2.4GHz simultaneously.
Supported Data Rates (Mbps):
802.11ax: 2.4 GHz: 9 to 1148 (MCS0 to MCS11, NSS = 1 to 4) 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 600 Mbps (MCS0 to MCS31)
802.11ac: 6.5 to 1733 Mbps (MCS0 to MCS9, NSS = 1 to 4)
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 very high throughput (VHT) —VHT 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

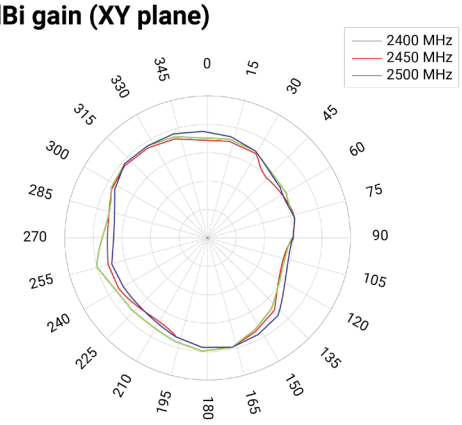
Cross-Band VLAN Pass-Through
Management VLAN
Spanning Tree
Supports 802.1d Spanning Tree Protocol
QoS (Quality of Service)
Compliant with IEEE 802.11e Standard
WMM
SNMP
v1, v2c, v3
MIB
I/II, Private MIB
Wireless Security
WPA3
WPA2 Enterprise (AES)
WPA2 AES-PSK
Hide SSID in Beacons
MAC Address Filtering, 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
EWS377-FIT
Device
Weight: 1.70 lbs. (776 g)
Length: 8.27" (210 mm)
Width: 8.27" (210 mm)
Height: 1.31" (33.2 mm)
Packaging
Weight: 2.36 lbs. (1072 g)
Length: 9.65" (245 mm)
Width: 9.65" (245 mm)
Height: 3.35" (85 mm)
Package Contents
1 - EWS377-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

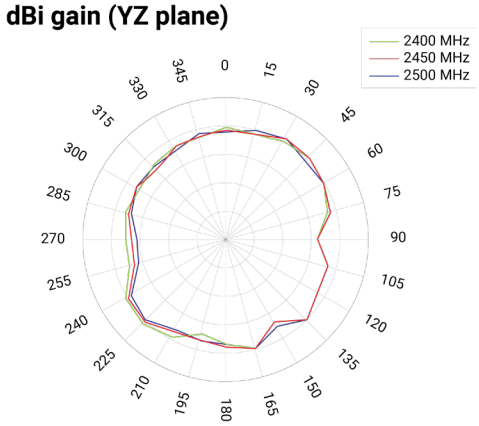
Product Dimensions

EWS377-FIT Antenna Patterns

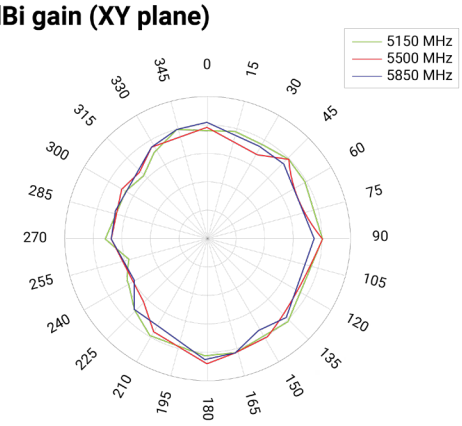
dBi gain (XY plane)



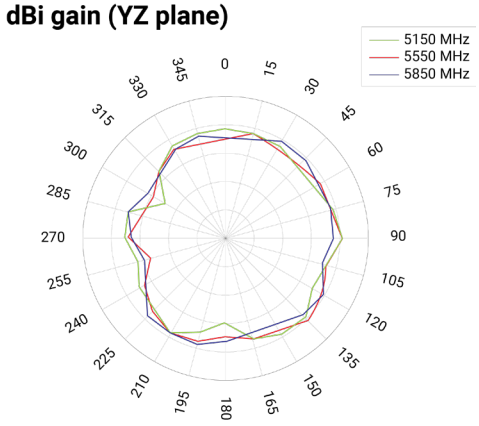
dBi gain (YZ plane)



dBi gain (XY plane)



dBi gain (YZ plane)



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Maximum data rates are based on IEEE 802.11 standards. Actual throughput and range may vary depending on distance between devices or traffic and bandwidth load in the network.

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