



ECW336



EnGenius Cloud Managed Wi-Fi 6E Access Point

Greatly increase performance, network capacity, and wireless efficiency

Product Highlights

The EnGenius Cloud Managed ECW336 Wi-Fi 6E tri-band 4x4 access point uses the newly-released 6 GHz band with super-wide 160 MHz channels to greatly increase your company's network capacity and reduce its overall bandwidth congestion. Built-in security includes features such as WPA3 Enterprise with radius for stronger encryption and authentication.



Features & Benefits

- 4x4:4 MU-MIMO Wi-Fi 6 (802.11ax) compatible for top speeds
- 8.4 Gbps tri-radio aggregate frame rate for gigabit Wi-Fi
- 5 GbE PoE+ port to maximize the connection speed and AP placement
- Tri-concurrent 802.11ax architecture backward compatible with all ac/a/b/g/n client devices
- The 1200 MHz band that supports AR/VR, ultra-high HD, and other applications
- The 6 GHz interference-free band allows ultra-fast speeds
- Integrated enterprise security and guest access
- Powerful built-in Qualcomm Quad-core CPU for superior performance and advanced 1024-QAM for faster packet transmission
- OFDMA and MU-MIMO for fast, efficient transmissions between the AP and client devices and BSS coloring for increased spatial reuse
- Access point diagnostic tools for real time channel utilization

Standards

IEEE 802.11ax on 2.4 GHz

IEEE 802.11ax on 5 GHz

IEEE 802.11ax on 6 GHz

(Backward compatible with 802.11b/g/n/ac)

Processor

Qualcomm® Networking Pro 1210 Platform

Antenna

4 x 2.4 GHz: 5 dBi

4 x 5 GHz: 6 dBi

4 x 6 GHz: 5 dBi

Physical Interface

1 x 10/100/1000/2500/5000 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

1 x 6 GHz

Power Source

Power-over-Ethernet: 802.3at Input

12VDC /2A Power Adapter (Not Included)

Maximum Power Consumption

22.5W

Wireless & Radio Specifications

Operating Frequency

Dual-Radio Concurrent 2.4 GHz, 5 GHz, & 6 GHz

Operation Modes

AP, Mesh

Frequency Radio

2.4 GHz: 2400 MHz ~ 2482 GHz

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

6 GHz: 5.925GHz~6.425GHz, 6.425GHz~6.525GHz, 6.525GHz~6.875GHz, 6.875GHz~7.125GHz

Transmit Power

Up to 23 dBm on 2.4 GHz

Up to 23 dBm on 5 GHz

Up to 23 dBm on 6 GHz

(Maximum power is limited by regulatory domain)

Tx Beamforming (TxBF)

Increasing signal reliability and transmitting distance

Radio Chains/Spatial Stream

4x4:4

SU-MIMO

Four (4) spatial stream SU-MIMO for 2.4GHz, Four (4) spatial stream SU-MIMO for 5GHz and Four (4) spatial stream SU-MIMO for 6GHz up to 8,400 Mbps wireless data rate to a single wireless client device under 2.4 GHz, 5 GHz, and 6 GHz radios.

MU-MIMO

Four (4) spatial streams multi-user (MU)-MIMO for up to 4800 Mbps wireless data rate to transmit to two (2) two streams MU-MIMO 11ax capable wireless client devices under 6GHz simultaneously.

Four (4) spatial streams multi-user (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) spatial streams multi-user (MU)-MIMO for up to 1148 Mbps wireless data rate to transmit to two (2) two streams MU-MIMO 11ax capable wireless client devices under 2.4GHz simultaneously.

Supported Data Rates (Mbps):

802.11ax:

6 GHz: 18 to 4800 (MCS0 to MCS13, NSS = 1 to 4)

5 GHz: 18 to 2400 (MCS0 to MCS11, NSS = 1 to 4)

2.4 GHz: 9 to 1148 (MCS0 to MCS11, NSS = 1 to 4)

802.11ac: 6.5 to 1733 Mbps (MCS0 to MCS9, NSS = 1 to 4)

802.11n: 6.5 to 600 Mbps (MCS0 to MCS15)

802.11a/g: 6, 9, 12, 18, 36, 48, 54

802.11b: 1, 2, 5.5, 11

Supported Radio Technologies

802.11ax: Orthogonal Frequency Division Multiple Access (OFDMA)

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

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

Channelization

802.11ax supports high efficiency (HE) –HE 20/40/80/160 (6GHz only) 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

Dynamic Frequency Selection (DFS) Certified

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 2.4GHz, 5GHz, & 6 GHz 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)

IEEE 802.11e compliant

WMM

SNMP

v1, v2c, v3

MIB

I/II, Private MIB

Wireless Security

WPA3 Enterprise

WPA3-PSK (SAE)

WPA3/WPA2-PSK Mixed

WPA2 Enterprise

WPA2 AES-PSK

Hide SSID in Beacons

MAC Address Filtering, up to 256 MACs per SSID

Wireless STA (Client) Connected List

SSH Tunnel

Client Isolation

L2 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

ECW336 Device

Weight: 1.39 lbs. (630 g)

Length: 8.07" (205 mm)

Width: 8.07" (205 mm)

Height: 1.31" (33.2 mm)

Packaging

Weight: 2.6 lbs. (1157 g)

Length: 9.65" (245 mm)

Width: 9.65" (245 mm)

Height: 3.35" (85 mm)

Master Carton

Weight: 27.18 lbs. (12.33 kg)

Length: 19.77" (502 mm)

Width: 17.40" (442 mm)

Height: 10.00" (254 mm)

No. of boxes per carton: 10 units

Package Contents

1 – ECW336 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

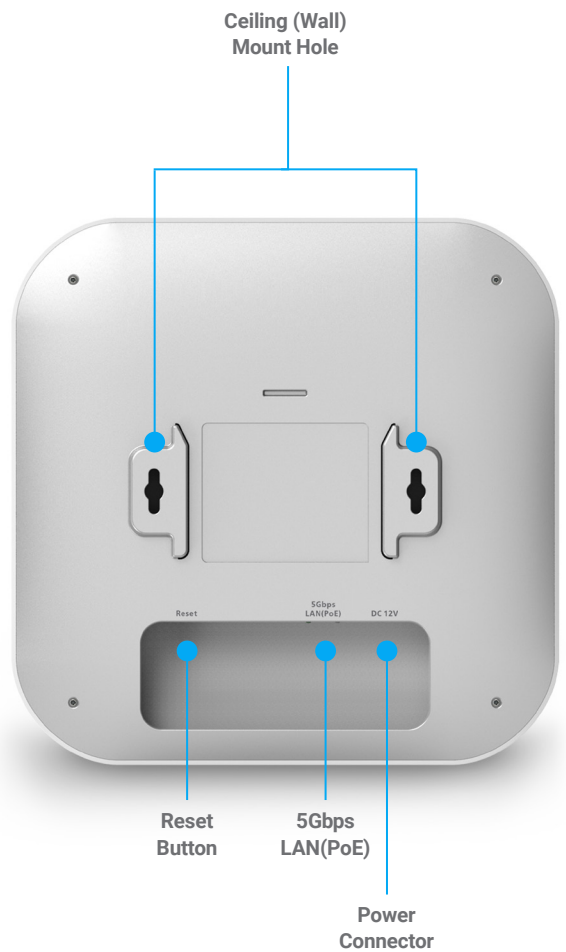
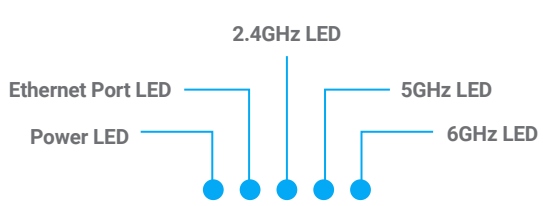
1 - Quick Installation Guide

Certification

FCC, CE, IC

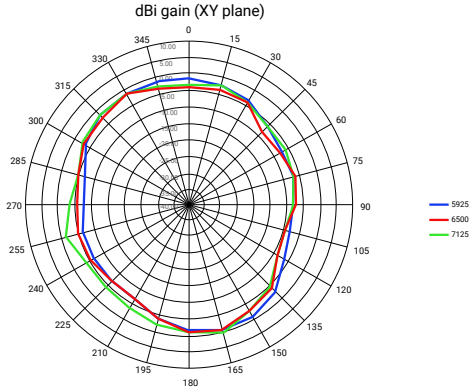
Warranty:

2 Year

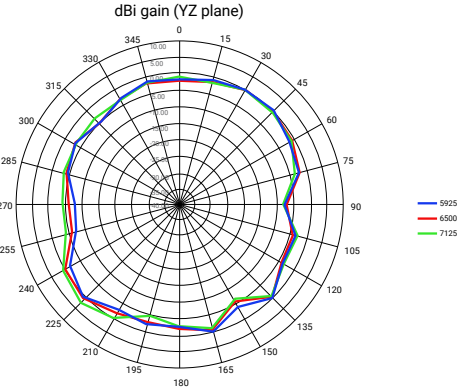


Antennas Patterns Wireless Indoor Cloud Security Access Point ECW336

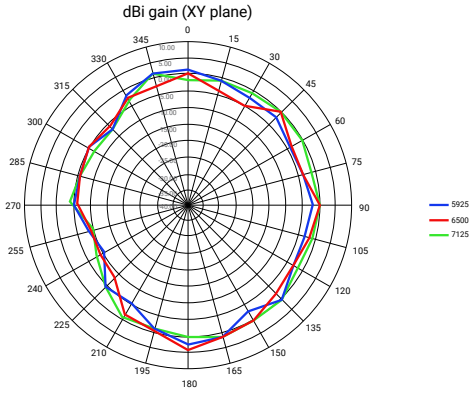
2.4GHz H-Plane



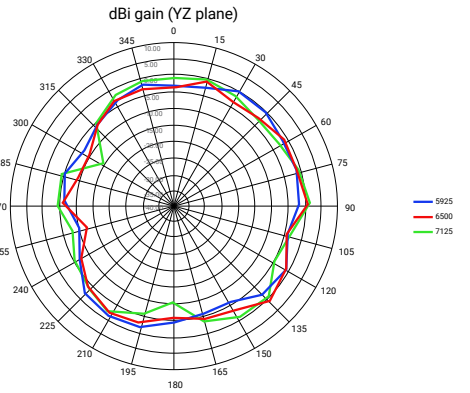
2.4GHz E-Plane



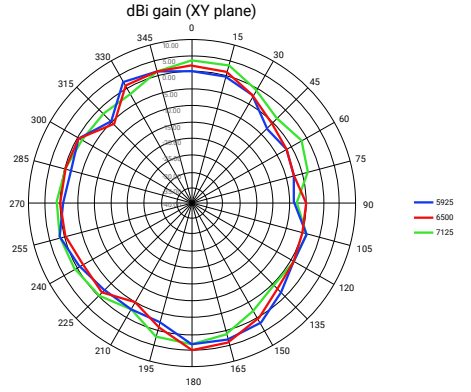
5GHz H-Plane



5GHz E-Plane



6GHz H-Plane



6GHz E-Plane

