EnGenius

Datasheet

ECW215

Wi-Fi 6 Cloud-Managed Wall-Plate Access Point

Provides exceptional in-room wired and wireless connectivity

Product Highlights

EnGenius Cloud Managed ECW215 Wi-Fi 6 dual-band 2x2:2 wall-plate access point with built-in 2-port gigabit switch, with port 2 supporting PoE power transfer to other PoE devices, provides exceptional in-room wired and wireless connectivity for superior entertainment in hotel rooms, student housing, assisted living, senior living, multi-tenant dwellings, and classrooms.

Features & Benefits

- Dual-band 802.11ax 2x2 supports up-to 1,200 Mbps (5 GHz) & 574 Mbps in 2.4 GHz
- Sleek, low-profile design for in-room Wi-Fi & wired connectivity
- On-board 2-port switch offers port-based 802.1Q VLAN support
- LAN1 & LAN2 support 802.3af/at PoE input for flexible installation up-to 328 feet
- Connect & power VoIP phones or other PoE devices with PSE Support
- SmartCasting to personalize in-room media with mobile device streaming to TV's
- Extend SSID settings to LAN ports & provide captive portal, splash page, and advanced security
- Mesh wireless support simplifies setup, optimizes signals & self-heals
- Remote connectivity diagnostics, Wi-Fi quality testing, and device configurations
- Manage an unlimited number of AP's from anywhere with the EnGenius Cloud
- Quick-Scan Device register, installation, and remote monitoring & troubleshooting
- No Access Point Licensing or Subscription Fees

Technical Specifications

Standards

IEEE 802.11ax on 2.4 GHz

IEEE 802.11ax on 5 GHz

Backward compatible with 802.11b/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 Mbps Ethernet Uplink Port (back plate)

2 x 10/100/1000 Mbps Ethernet Switched Ports (client ports)

- Port 3 PoE PSE (ECW215 requires 802.3at power source)

1 x Reset Button

1 x DC Jack

LED Indicators

1 x Multi- color LED for following behavior

- Power up
- Cloud connecting
- Disconnected

Power Source

Power-over-Ethernet: 802.3af/at Input

- PoE Output w/ 802.3at Input

IEEE 802.11e Compliant Source

DC Jack: 12V/1.5A 48V

Maximum Power Consumption

14.2W

Wireless & Radio Specifications

Operating Frequency

Dual-Radio Concurrent 2.4 GHz & 5 GHz

Operation Modes

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 20 dBm on 2.4 GHz

Up to 20 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 2.4GHz and 5GHz radio.

MU-MIMO

Two (2) spatial streams multi-user (MU)-MIMO for up to 1,200 Mbps wireless data rate to transmit to one (1) two streams MU-MIMO 11ax capable wireless client devices under 5GHz simultaneously.

Two (2) spatial streams multi-user (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

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)

Complaint with IEEE 802.11e Standard

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 (-30 °C~80 °C)

Humidity (non-condensing)

Operating: 90% or less

Storage: 90% or less

Dimensions & Weights

ECW215 Device

Weight: .80 lbs. (.363 Kg)

Length: 5.5” (140 mm)

Width: 3.5” (90 mm)

Height: 1.6” (40 mm)

Packaging

Weight: .86 lbs. (.390 Kg)

Length: 7.375” (187.3 mm)

Width: 5.375” (136.5 mm)

Height: 2.75” (69.9 mm)

Master Carton

Weight: 11.5 lbs. (5.23Kg)

Length: 17.72” (450mm)

Width: 11.42” (290 mm)

Height: 8.5” (215 mm)

No. of boxes per carton: 12 units

Package Contents

1 - ECW215 Cloud Managed Indoor Access Point

1 - Ceiling and Wall Mount Screw Kits

2 - Junction-plates (tall/short)

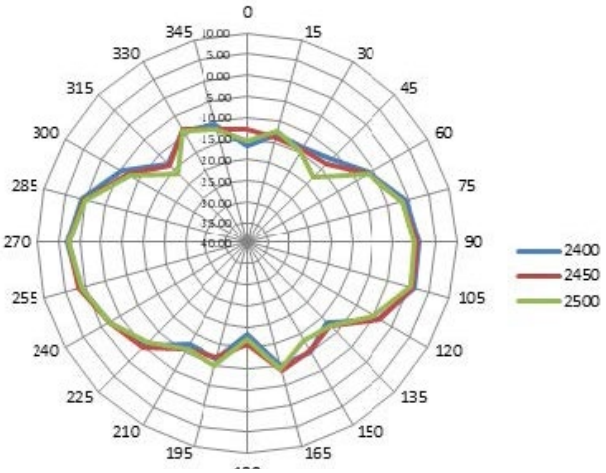
1 - Quick Installation Guide

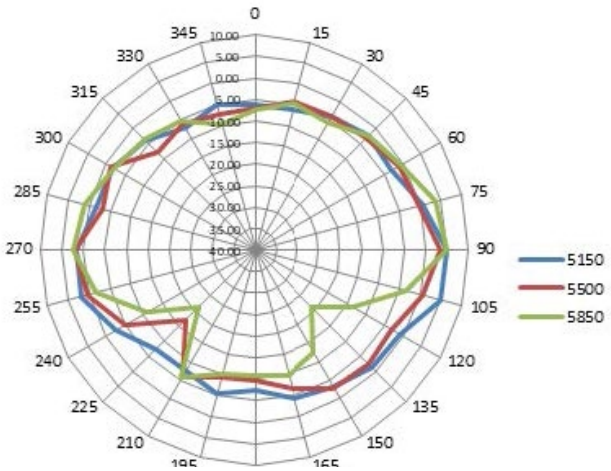
Certifications

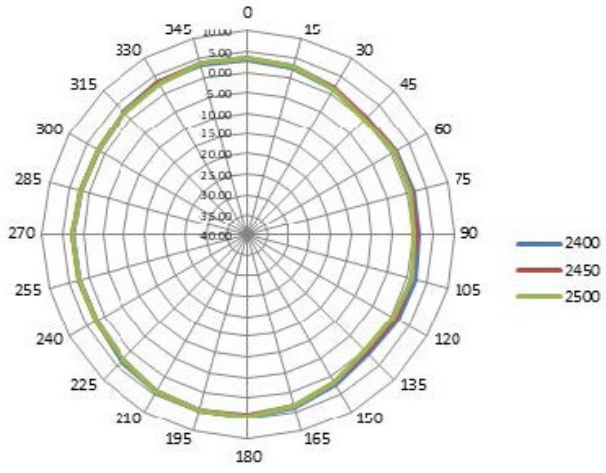
FCC, CE, IC

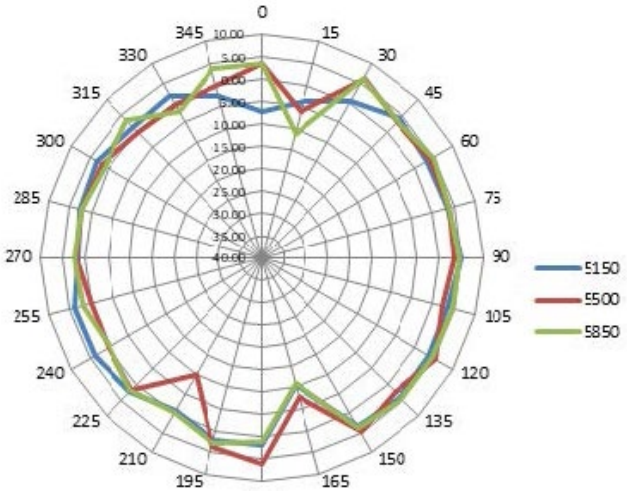
Warranty

2 Year

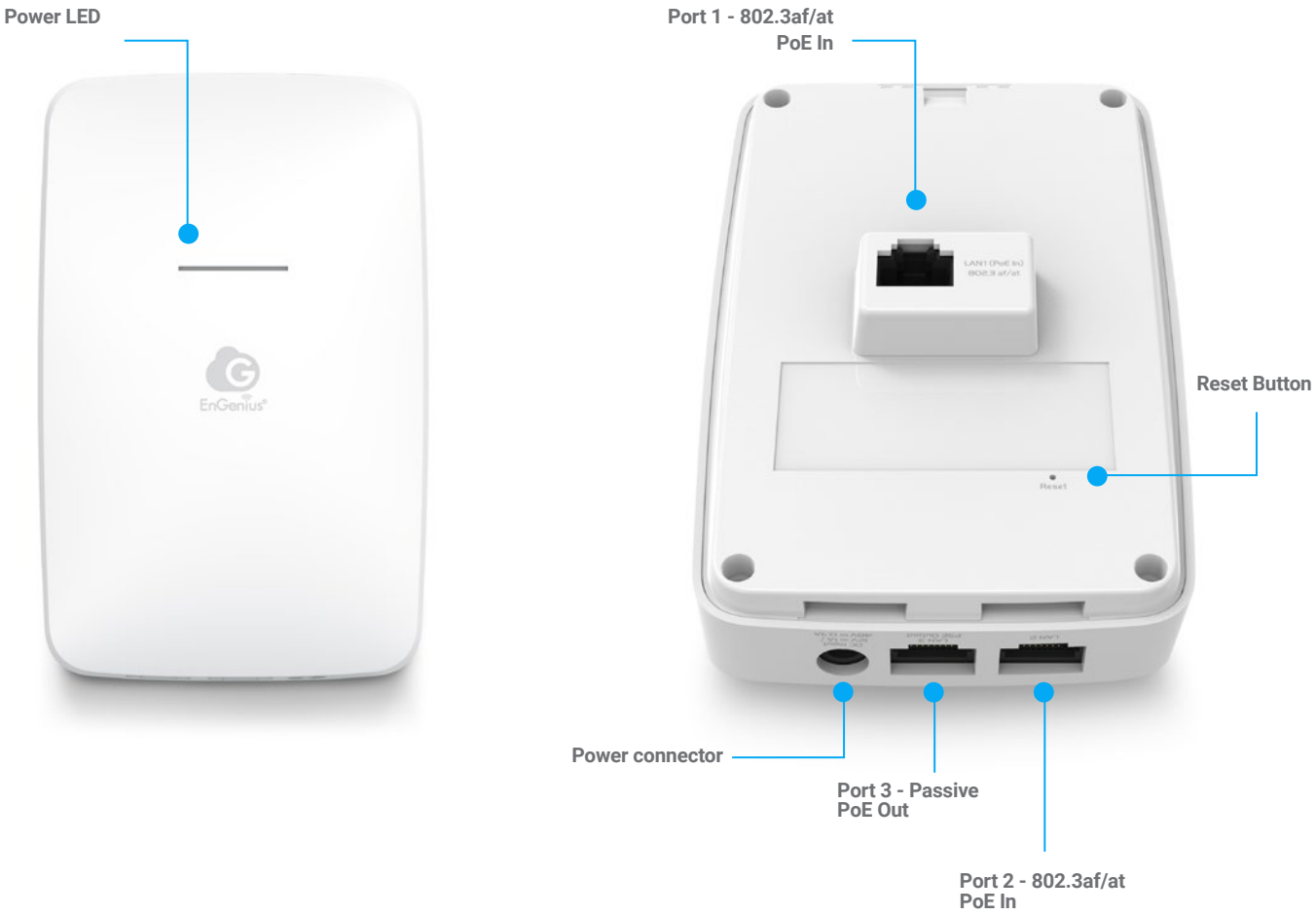








ECW115 Indoor Access Point



Plug & Play with Zero Configuration

Scan & Go

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Version: 1.00 04/2022