

ECW230

Cloud6 4x4 Cloud Managed Wi-Fi 6 4×4 Indoor Access Point

Overview

EnGenius Cloud Managed Wi-Fi 6 4×4 Indoor Access Point ECW230 supports dual concurrent 802.11ax Wi-Fi 6 architecture, delivering supercharged speeds up to 2,400 Mbps (5 GHz), and up to 1,200 Mbps (2.4 GHz). With WPA3 & WPA2-AES authentication support, remote monitoring & troubleshooting, and Mesh Wireless Support for optimized signal quality, it's easy to set up and manage an unlimited number of APs with the EnGenius Cloud App.



Features & Benefits

- Dual concurrent 802.11ax Wi-Fi 6 architecture & backward-compatible
- Supercharged speeds up to 2,400 Mbps (5 GHz) & up to1,200 Mbps (2.4 GHz)
- 2.5 GbE realizes greater throughput and supports 802.3at & 48V PoE input for flexible installation over 100 meters (328 feet)
- WPA3 & WPA2-AES authentication support

- Cloud Managed with AP & Mesh mode
- Quick-scan device register & configuration and remote monitoring & troubleshooting
- Cloud manage an unlimited number of APs from anywhere with the EnGenius Cloud App
- Mesh Wireless Support simplifies setup, optimizes signals & self-heals

Technical Specifications

Technical Specifications	Supported Data Rates
Standards	802.11ax:
IEEE 802.11ax on 2.4 GHz	2.4 GHz: 9 to 1,148 (MCS0 to MCS11, NSS = 1 to 4)
IEEE 802.11ax on 5 GHz	5 GHz: 18 to 2,400 (MCS0 to MSC11, NSS = 1 to 4)
Backward compatible with 802.11a/b/g/n/ac	802.11b: 1, 2, 5.5, 11
Antenna	802.11a/g: 6, 9, 12, 18, 36, 48, 54
4 x 2.4 GHz: 5 dBi(Integrated Omni-Directional)	802.11n: 6.5 to 600 (MCS0 to MCS31)
4 x 5 GHz: 6 dBi(Integrated Omni-Directional)	802.11ac: 6.5 to 1,733 (MCS0 to MCS9, NSS = 1 to 4)
Physical Interfaces	Supported Radio Technologies
1 x 10/100/1000/2500 Ethernet Port (PoE at)	802.11ax: Orthogonal Frequency Division Multiple Access(OFDMA)
1 x DC Jack	802.11a/g/n/ac: Orthogonal Frequency Division Multiple (OFDM)
1 x Reset Button	802.11b: Direct-sequence spread-spectrum (DSSS)
LED indicators	Channelization
1 x Power	
1 x LAN	802.11ax supports high efficiency throughput (HE) —HE 20/40/80 MHz
1 x 2.4 GHz	802.11ac supports very high throughput (VHT) –VHT 20/40/80 MHz
1 x 5 GHz	802.11n supports high throughput (HT) —HT 20/40 MHz
Power Source	802.11n supports high throughput under the 2.4GHz radio –HT40 MHz (256-QAM)
Power-over-Ethernet: 802.3at Input	802.11n/ac/ax packet aggregation: A-MPDU, A-SPDU
12VDC /2A Power Adapter	Supported Modulation
Maximum Power Consumption	802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM
19.5W	802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
	802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM
Wireless & Radio Specifications	802.11b: BPSK, QPSK, CCK
Operating Frequency	Max Concurrent User
Dual-Radio Concurrent 2.4 GHz & 5 GHz	512 Per radio
Operation Modes	Management Features
Managed mode: AP, AP Mesh, Mesh	Multiple BSSID
Frequency Radio	8 SSIDs on both 2.4GHz and 5GHz bands
2.4 GHz: 2400 MHz ~ 2482 MHz	VLAN Tagging
5 GHz: 5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725 MHz ~ 5850 MHz	Supports 802.1q SSID-to-VLAN Tagging
5725 MHz ~ 5850 MHz	Cross-Band VLAN Pass-Through
Up to 23 dBm on 2.4 GHz	Management VLAN
Up to 23 dBm on 5 GHz	Spanning Tree
(Maximum power is limited by regulatory domain)	Supports 802.1d Spanning Tree Protocol
Radio Chains	QoS (Quality of Service)
4 × 4:4	Complaint With IEEE 802.11e Standard
SU-MIMO	WMM
Four (4) spatial stream Single User (SU) MIMO for up to 1148 Mbps wireless data	SNMP
rate with HE40 bandwidth to a 4x4 wireless client device under the 2.4GHz radio.	v1, v2c, v3
Four (4) spatial stream Single User (SU) MIMO for up to 2400 Mbps wireless data	МІВ
rate with HE80 to a 4x4 wireless device under the 5GHz radio.	I/II, Private MIB
MU-MIMO	Fast Roaming
Four (4) spatial streams Multiple (MU)-MIMO up to 2,400 Mbps wireless data rate for transmitting to four (4) streams MU-MIMO 11ax capable wireless client devices under 5GHz simultaneously.	802.11r/k
Four (4) spatial streams Multiple (MU)-MIMO up to 1,148 Mbps wireless data	Wireless Security WPA2-PSK
rate for transmitting to four (4) streams MU-MIMO 11ax capable wireless client	WPA2-PSN WPA2-Enterprise
devices under 2.4GHz simultaneously.	WPA2-Enterprise WPA3-PSK
	WPAS-PSN WPA3-Enterprise
	Hide SSID in Beacons
	Wireless STA (Client) Connected List

Client Isolation

Technical Specifications

Environmental & 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 & Weight	
Weight	
597 g	
Dimensions	
205 x 205 x 33.2 mm	
Package Contents	
1 – ECW230 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 Kit	
1 – Quick Installation Guide	
Compliance	
Regulatory Compliance	
FCC	
CE	

CE IC

Antennas Patterns









5GHz



Hardware Overviews











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