Technical Specifications

**Standards**

IEEE 802.11ax on 2.4 GHz

IEEE 802.11ax on 5 GHz

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

**Antenna**

4 x 2.4 GHz: 3 dBi

4 x 5 GHz: 3 dBi

Integrated Omni-Directional Antenna

**Physical Interface**

1 x 10/100/1000/2500 Ethernet Port (PoE+)

1 x 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

IEEE 802.11e Compliant Source

12VDC /2A Power Adapter

**Maximum Power Consumption**

19.5W

**Wireless & Radio Specifications Operating Frequency**

Dual-Radio Concurrent 2.4 GHz & 5 GHz

**Operation Modes**

Managed mode: 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 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**

4 x 4:4

**SU-MIMO**

Four (4) spatial stream Single User (SU) MIMO for up to 1148 Mbps wireless data rate with HE40 bandwidth to a 4x4 wireless client device under the 2.4GHz radio. Four (4) spatial stream Single User (SU) MIMO for up to 2400 Mbps wireless data rate with HE80 to a 4x4 wireless device under the 5GHz radio.

**MU-MIMO**

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.

Four (4) spatial streams Multiple (MU)-MIMO up to 1,148 Mbps wireless data rate for transmitting to four (4) streams MU-MIMO 11ax capable wireless client devices under 2.4GHz simultaneously.

**Supported Data Rates (Mbps):**

802.11ax:

2.4 GHz: 9 to 1,148 (MCS0 to MCS11, NSS = 1 to 4)

5 GHz: 18 to 2,400 (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 (MCS0 to MCS31)

802.11ac: 6.5 to 1,733 (MCS0 to MCS9, NSS = 1 to 4)

**Supported Radio Technologies**

802.11ax: Orthogonal Frequency Division Multiple Access (OFDMA)

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

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

**Channelization**

802.11ax supports high efficiency throughput (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 on both 2.4GHz and 5GHz bands.

**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

**Fast Roaming**

802.11r/k

**Wireless Security**

WPA2-PSK

WPA2-Enterprise

Hide SSID in Beacons

MAC Address Filtering, Up to 32 MACs per SSID

Wireless STA (Client) Connected List

Https

SSH Tunnel

Client Isolation

**Environment & Physical Temperature Range**

Operating: 32ºF~104ºF (0 ºC~40 ºC)

Storage: -40 ºF~176 ºF (-40 ºC~80 ºC)

**Humidity (Non-Condensing)**

Operating: 90% or less

Storage: 90% or less

**Dimensions & Weight**

Weight: 597 g

Width: 205 mm

Length: 205 mm

Height: 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**

FCC

CE

IC

**Warranty**

2 Year