**Technical Specifications**

**Standards**

IEEE 802.11b/g/n on 2.4 GHz
IEEE 802.11a/n/ac on 5 GHz

**Antenna**

2 x 2.4 GHz: 5 dBi
2 x 5 GHz: 5 dBi
Integrated Omni-Directional Antenna

**Physical Interface**

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

**LED Indicators**

1 x Power
1 x LAN
1 x 2.4 GHz
1 x 5 GHz

**Power Source**

Power-over-Ethernet: 802.3af/at
IEEE 802.11e Compliant Source
Active Ethernet (PoE)

**Maximum Power Consumption**

12.6W

**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**

2 x 2:2

**SU-MIMO**

Two(2) spatial stream Single User (SU) MIMO for up to 400 Mbps wireless data rate with VHT40 bandwidth to a 2×2 wireless device under the 2.4 GHz radio. Two(2) spatial stream Single User (SU) MIMO for up to 867 Mbps wireless data rate with VHT80 to a 2×2 wireless device under the 5 GHz radio.

**MU-MIMO**

Two (2) Spatial Stream MU-MIMO up to 867 Mbps wireless data rate for transmitting to two (2) streams MU-MIMO capable wireless devices under 5 GHz simultaneously.

**Supported Data Rates (Mbps):**

2.4 GHz: Max 400 (MCS0 to MCS11, NSS = 1 to 2)
5 GHz: Max 867 (MCS0 to MCS11, 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) (Additional 25% bandwidth when enabling 256-QAM uner HT40)
802.11ac: 6.5 to 867 Mbps (MCS0 to MCS9, NSS = 1 to 2)

**Supported Radio Technologies**

802.11a/g/n/ac: Orthogonal Frequency-Division Multiplexing (OFDM)
802.11b: Direct-Sequence Spread Spectrum (DSSS)
802.11n/ac: 2×2 MIMO with 2 Streams

**Channelization**

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 (VHT) Under the 2.4 GHz Radio—VHT 40 MHz (256-QAM)
802.11n/ac Packet Aggregation: A-MPDU, A-SPDU

**Supported Modulation**

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 Features**

**Multiple BSSID**

8 SSIDs on both 2.4 GHz and 5 GHz 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
Band Steering

**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
Client Isolation

**Environmental & Physical**

**Temperature Range**

Operating: -4ºF~140ºF/-20ºC~60ºC
Storage: -40Fº~176ºF/-40ºC~80ºC

**Humidity (non-condensing)**

Operating: 90% or less
Storage: 90% or less

**Waterproof & Dustproof**

IP67-Rated Enclosure

**Dimensions & Weight**

**ECW160 Device**

Weight: 829.5 g
Width: 111.2 mm
Length: 173.6 mm
Height: 30.29 mm

**Package Contents**

1 – ECW160 Cloud Managed Outdoor Access Point
2 – Pole-Mounting Brackets
1 – Wall-Mount Screw Set
2 – 2.4GHz 5dBi SMA Antennas
2 – 5GHz 5dBi SMA Antennas
1 – Quick Installation Guide

Compliance Regulatory

FCC
CE
IC

**Warranty**

2 Year