**Technical Specifications**

Standards

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

Processor

Qualcomm® 717 MHz Quad-Core CPU
4x ARM Cortex A7

Antenna

2×2, Integrated Omni-directional antennas (5 dBi gain @ 2.4 GHz, 5 dBi gain @ 5 GHz)

Physical Interface

1 x 10/100/1000 BASE-T, RJ-45 Gigabit Ethernet Port
1x DC Jack
1 x Reset Button

LED Indicators

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

Power Source

Power-over-Ethernet: 802.3af Input
IEEE 802.11e Compliant Source
12VDC /1A Power Adapter

Maximum Power Consumption

12W

Surge Protection

0.5KV

**Wireless & Radio Specifications**

Operating Frequency

Dual-Radio Concurrent 2.4 GHz & 5 GHz

Operation Modes

Access Point Mode
AP, AP Mesh, Mesh

Frequency Radio

2.4 GHz: 2400 MHz ~ 2835 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

Tx Beamforming (TxBF)

Radio Chains/Spatial Stream
2×2:2

SU-MIMO

Two (2) Spatial Stream SU-MIMO up to 1,267 Mbps to a single client

MU-MIMO

Two (2) Spatial Stream MU-MIMO up to 867 Mbps to two (2) 1×1 wireless devices simultaneously

Supported Data Rates (Mbps):

2.4 GHz: Max 400
5 GHz: Max 867
802.11b: 1, 2, 5.5, 11
802.11a/g: 6, 9, 12, 18, 36, 48, 54
802.11n: 6.6 to 300 Mbps (MCS0 to MCS15)
802.11ac: 6.5 to 867 Mbps (MCS0 to MCS9, NSS = 1 to 2)

Supported Radio Technologies

802.11b: Direct-Sequence Spread Spectrum (DSSS)
802.11a/g/n/ac: Orthogonal Frequency-Division Multiplexing (OFDM)
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: AMPDU, ASPDU

Supported Modulation

802.11b: BPSK, QPSK, CCK
802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM
802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM

**Management Features**

Multiple BSSID

support 8 SSIDs on both 2.4GHz and 5GHz

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

WEP Encryption 64/128/152 bit
WPA/WPA2 Enterprise (WPA-EAP Using TKIP or AES)
Hide SSID in Beacons
MAC Address Filtering, Up to 32 MACs per SSID
Wireless STA (Client) Connected List
SSH Tunnel
Client Isolation

**Environmental & Physical**

Temperature Range

Operating: 32ºF~104ºF (0 ºC~40 ºC)
Storage: -22 ºF~176 ºF (-30 ºC~80 ºC)

Humidity (non-condensing)

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

**Dimensions & Weight**

ECW120 Device

Weight: 336g
Diameter: 161.54 mm
Height:41.66 mm

Package Contents

1 – ECW120 Cloud Managed Indoor Access Point
1 – T-Rail Mounting Kit
1 – Mounting  Kit
1 – Mounting Bracket
1 – Quick Installation Guide

Certifications

FCC
CE