**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 ARM Cortex A53s @ 1.0GHz CPU

Antenna

2 x 2.4 GHz: 3 dBi
2 x 5 GHz: 3 dBi
Integrated Omni-Directional Antenna

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 LAN
1 x 2.4 GHz
1 x 5 GHz

Power Source

Power-over-Ethernet: 802.3af Input
12VDC /1.25A Power Adapter

Maximum Power Consumption

12.5W

**Wireless & Radio Specifications**

Operating Frequency

Dual-Radio Concurrent 2.4 GHz & 5 GHz

Operation Modes

Managed mode: AP, Mesh
Stand alone: AP, Mesh, WDS AP, WDS BR, WDS STA

 **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 20 dBm on 2.4 GHz
Up to 20 dBm on 5 GHz

Tx Beamforming (TxBF)

Radio Chains/Spatial Stream

2×2

SU-MIMO

Two(2) spatial stream SU-MIMO for 2.4GHz and Two(2) spatial stream SU-MIMO for 5GHz up to 1,774 Mbps wireless data rate to a single 11AX wireless client device under the both 2.4gHz and 5GHz radio.

MU-MIMO

Two(2) spatial streams SU-MIMO for 2.4GHz and two(2) spatial streams SU-MIMO for 5GHz up to totally 1,774Mbps wireless data rate to a single 11AX wireless client device under the both 2.4GHz and
5GHz radio.

Two(2) Multiple (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 287 (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 Multiple (OFDM)

Channelization

802.11ax supports very high throughput (VHT) —VHT 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 Features**

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

Deployment Options

Stand-Alone (Individually Managed)
Managed Mode (with Neutron Series Switch/ezMaster)

Stand-Alone Management Features

Auto Channel Selection
Auto Transmit Power
Wireless STA (Client) Connected List
Guest Network
Fast Roaming (802.11k & 802.11r)
Pre-Authentication (802.11i, 802.11x)
PMK Caching (802.11i)
Band Steering per SSID
Traffic Shaping per SSID/per user
VLAN Per SSID
Backup/Restore Settings
Auto Reboot
E-Mail Alert
Site Survey
Save Configuration as Users’ Default

Wireless Management Features (With ezMaster & Neutron Switch)

AP Auto Discovery & Provisioning
AP Auto IP Assignment
AP Group Management
Auto AP Rebooting
AP Device Name Editing
AP Radio Settings
Band Steering Per SSID
Traffic Shaping Per SSID/User
Fast Roaming (802.11k & 802.11r)
Pre-Authentication (802.11i, 802.11x)
PMK Caching (802.11i)
AP Client Limiting
Client Fingerprinting
AP VLAN Management
VLAN Per SSID
Captive Portal Per SSID
Multi-Tenant Account
AP Traffic Log
Access Point Status Monitoring
Wireless Client Monitoring
Email Alert
Wireless Traffic & Usage Statistics
Real-Time Throughput Monitoring
Visual Topology View
Floor Plan View
Map View
Wireless Coverage Display
Secure Control Messaging (SSL Certificate)
Local MAC Address Database
Remote MAC Address Database (RADIUS)
Unified Configuration Import/Export
Bulk Firmware Upgrade Capability
One-Click Update
Intelligent Diagnostics
Kick/Ban Clients
Wi-Fi Scheduler
Schedule reboot

Control Features

Managed Mode (w/Neutron Switch/ezMaster)
Distance Control (ACK Timeout)
Multicast Supported
Wi-Fi Scheduler
Client Traffic Status
RADIUS Accounting (802.1x)
Power Save Mode (U-APSD Support)
CLI Support
HTTPS

Wireless Security

WPA3
WPA2 Enterprise (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**

EWS357AP Device

Weight: TBD
Length: 6.30″ (160 mm)
Width: 6.30″ (160 mm)
Height: 1.31″ (33.2 mm)

Packaging

Weight: TBD
Length: 8.07″ (205 mm)
Width: 8.07″ (205 mm)
Height: 3.27″ (83 mm)

Package Contents

1 – EWS357AP Dual-Band AX1800 Indoor Access Point
1 – Ceiling Mount Base (9/16” Trail)
1 – Ceiling Mount Base (15/16” Trail)
1 – Ceiling and Wall Mount Screw Kits
1 – Quick Installation Guide

Certifications

Certifications

FCC
CE