**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