**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

1 x 2.4 GHz: 5 dBi
1 x 5 GHz: 5 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
IEEE 802.11e Compliant Source
12VDC /1A Power Adapter

Maximum Power Consumption

9W

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 ~ 2472 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 1267 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: 6.5 to 400 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

Supports 16 SSIDs (8 SSIDs per Band)

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)
RSSI Threshold
Band Steering
Traffic Shaping
VLANs for Access Point – Multiple SSIDs
Backup/Restore Settings
Auto Reboot
E-Mail Alert
Site Survey
Save Configuration as 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
Traffic Shaping
Fast Roaming (802.11k & 802.11r)
Pre-Authentication (802.11i, 802.11x)
PMK Caching (802.11i)
RSSI Threshold
AP Client Limiting
Client Fingerprinting
AP VLAN Management
VLANs for AP – Multiple SSIDs
Secured Guest Network
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

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

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**

EWS355AP Device

Weight: 0.80 lbs. (362.8 kg)
Diameter: 6.5″ (165.1 mm)
Height: 1.64″ (41.6 mm)

Package Contents

1 – EWS355AP Dual-Band AC1300 Indoor Access Point
1 – 12V/1A Power Adapter
1 – T-Rail Mounting Kits
1 – Ceiling and Wall Mount Screw Kits
1 – Mounting Brackets
1 – RJ-45 Ethernet Cables
1 – Quick Installation Guide

Certifications

FCC
CE