**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

2.4 GHz: 4 dBi
5 GHz: 6 dBi
Integrated Omni-Directional Antenna

Physical Interface

1 x 10/100/1000 Mbps Ethernet Uplink Port (back plate)
3 x 10/100/1000 Mbps Ethernet Switched Ports (client ports)
– Port 1 (PSE) 802.3af PoE (requires 802.3at power source)
2 x 110 Punch Down Block (1 x Pass-through Port, 1 x Uplink Port)
2 x GbE Pass-Through Ports
1 x Reset Button
1 x Kensington Lock Slot

LED Indicators

1 x Power
1 x Uplink
1 x 5 GHz
1 x 2.4 GHz
1 x PoE Out
1 x LAN

Power Source

Power-over-Ethernet:
– 802.3af Output w/ 802.3at Input
IEEE 802.11e Compliant Source

Maximum Power Consumption
10W

Surge Protection

0.5KV

**Wireless & Radio Specifications**

Operating Frequency

Dual-Radio Concurrent 2.4 GHz & 5 GHz

Operation Modes

Access Point Mode
Mesh Access Point Mode

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

Tx Beamforming (TxBF)

Radio Chains/Spatial Stream

2 x 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 1267 Mbps to two (2) MU-MIMO-capable 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: A-MPDU, A-SPDU

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 up to 8 SSIDs for both radios

VLAN Tagging

Supports 802.1q SSID-to-VLAN Tagging
VLAN per SSID
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
MAC Address Filtering
Backup/Restore Settings
Power Save Mode
Auto Reboot
E-Mail Alert
Site Survey
Save Configuration as Default
Background Scanning
Client Fingerprinting
Multicast to Unicast
Captive Portal
Wi-Fi Scheduler
RADIUS Accounting

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
Background Scanning
Captive Portal

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
HTTPS
Client Isolation
Rogue AP Detection
L2 Isolation
Client Isolation

**Environmental & Physical**

Temperature Range

Operating: 32º F~104º F (0º C~40 º C)
Storage: -22º F~158º F (-30º C~70º C)

Humidity (non-condensing)

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

**Dimensions & Weight**

EWS550AP Device

Weight: 1 lbs. (0.45 kg)
Width: 4.9” (12.5 cm)
Length: 7.4” (18.8 cm)
Height: 1” (2.6 cm)

Package Contents

1 – EWS550AP 11ac Wave 2 Wall Plate Access Point
1 – Wall Mount Screw Kits
1 – Mounting Bracket for J-Box
1 – Quick Installation Guide

Certifications

FCC
CE