**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