**Technical Specifications**

Standards

IEEE 802.11a/n/ac on 5 GHz

Processor

Qualcomm® 717 MHz Quad-Core CPU  
4x ARM Cortex A7

Antenna

High-Gain Directional 14 dBi Antenna

Physical Interface

2 x 10/100/1000 Base-T, RJ-45 Gigabit Ethernet Ports  
1 x Reset Button  
Link Aggregation Achieves 2 Gbps Throughput

LED Indicators

Power  
LAN1  
LAN2  
WLAN  
Signal

Power Source

Power-over-Ethernet: 24V Proprietary PoE  
Active Ethernet (PoE)  
Link Aggregation Achieves 2 Gbps Throughput

Maximum Power Consumption

7.5W

Surge Protection

Line to Line: 1 KV  
Line to Ground: 2 KV

ESD Protection

Contact: 4KV  
Air: 8 KV

**Wireless & Radio Specifications**

Operating Frequency

5 GHz

Operation Modes

Access Point Mode (AP mode)  
Client Bridge Mode (CB Mode)  
WDS: WDS AP, WDS Bridge, WDS Station

Frequency Radio

5 GHz: 5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725 MHz ~ 5850 MHz

Transmit Power

Up to 23 dBm

Tx Beamforming (TxBF)

Radio Chains/Spatial Stream

2 x 2:2

SU-MIMO

5GHz – Two (2) Spatial Stream SU-MIMO up to 867 Mbps to individual  
2×2 VHT40 client devices

MU-MIMO

5GHz – Two (2) Spatial Stream Multi User (MU) MIMO for up to 867Mbps to  
two (2) MU-MIMO capable wireless devices simultaneously

Supported Data Rates (Mbps):

5 GHz: Max 867  
802.11a: 6, 9, 12, 18, 24, 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

802.11a/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/ac Packet Aggregation: AMPDU, ASPDU

Supported Modulation

802.11a/n: BPSK, QPSK, 16-QAM, 64-QAM  
802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM

**Management Features**

Multiple BSSID

Supports 8 SSIDs

VLAN Tagging

Supports 802.1q SSID-to-VLAN Tagging  
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 (w/ezMaster/Neutron Series Switch)

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  
Traffic Shaping  
VLANs for Access Point – Multiple SSIDs  
Backup/Restore Settings  
Auto Reboot  
E-Mail Alert  
Site Survey  
Save Configuration as Users Default

Control Features

Managed Mode (w/ezMaster/Neutron Switch)  
Distance Control (ACK Timeout)  
Multicast Supported  
Wi-Fi Scheduler  
Client Traffic Status  
RADIUS Accounting  
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

Wireless Management Features (w/ezMaster/Neutron Switch)

AP Auto Discovery & Provisioning  
AP Auto IP Assignment  
AP Group Management  
Auto AP Rebooting  
AP Device Name Editing  
AP Radio Settings  
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  
Intelligent Diagnostics  
Kick/Ban Clients  
Wi-Fi Scheduler

**Environmental & Physical**

Temperature Range

Operating: -4 ºF~140 ºF (-20 ºC~60 ºC)  
Storage: -22 ºF~176 ºF (-30 ºC~80 ºC)

Humidity (non-condensing)

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

Waterproof

IP55-Rated Enclosure

**Dimensions & Weight**

ENS500-AC Device

Weight: 0.65 lbs. (0.29 kg)  
Width: 3.93” (100 mm)  
Length: 7.20” (185 mm)  
Height” 1.08” (27 mm)

Package Contents

1 – ENS500-AC Outdoor Bridge  
1 – PoE Adapter (EPA2406GP)  
2 – Pole-Mounting Brackets  
1 – Wall-Mount Screw Set  
1 – Power Cord  
1 – Quick Installation Guide

Certifications

FCC  
CE