**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