**Technical Specifications**

Standards

IEEE 802.11b/g/n on 2.4 GHz
IEEE 802.11a/n/ac on 5 GHz
IEEE 802.1r
IEEE 802.1k
IEEE 802.11x

Processor

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

Memory Capacity

Memory: 256 MB
Flash Memory 32 MB

Antenna

4 x 5dBi External Detachable SMA Omni-Directional Antennas

Physical Interface

2 x 10/100/1000 Gigabit Ethernet Ports
– LAN1
– LAN2
1 x Reset Button

LED Indicators

1 x Power
WLAN (Wireless Connection)
2.4 GHz
5 GHz
2 x LAN

Power Source

PoE Injector (EPA2410GP)
INPUT: 100-240VAC, 0.7A, 50-60Hz
OUTPUT: 24V, 1A
Power-over-Ethernet: 24V Proprietary PoE
IEEE 802.11e Compliant Source
Active Ethernet (PoE)​

Mounting

Wall Mount
Pole Mount

Surge Protection

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

ESD Protection

Contact: 4KV
Air: 8 KV

Ingress Protection Marking

IP55-Rated Waterproof/Dustproof Enclosure

**Wireless & Radio Specifications**

Operating Frequency

Dual-Radio Concurrent 2.4GHz & 5GHz

Operation Modes

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

Frequency Radio

2.4GHz: 2400 MHz ~ 2835 MHz
5GHz: 5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725MHz ~ 5850MHz

Transmit Power

Up to 27 dBi on 2.4 GHz
Up to 27 dBi on 5 GHz
Max transmit power is limited by regulatory power

Radio Chains/Spatial Streams

11ac Wave2 2 x 2:2

Tx Beamforming (TxBF)

SU-MIMO

5GHz – Two (2) Spatial Streams SU-MIMO up to 1267 Mbps to a single client

MU-MIMO

5GHz – Two (2) Spatial Streams MU-MIMO for up to 1267Mbps 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
802.11g: 6, 9, 12, 18, 24, 36, 48, 54
802.11n: 6.5 to 400 (MCS0 to MCS15)
802.11ac: 6.5 to 867 (MCS0 to MCS9, NSS=1~2)

Supported Radio Technology

802.11b: Direct-Sequence Spread-Spectrum (DSSS)
802.11a/g/n/ac: Orthogonal frequency-division Multiplexing (OFDM)

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 (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 up to 16 SSIDs, 8 SSIDs per radio

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

Compliant 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 and 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°F to 140°F, -20°C to 60°C
Storage: -22°F to 176°F, -30°C to 80 °C

Humidity (Non-condensing):

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

**Dimensions & Weight**

ENS620EXT Device

Weight: 1.11 lbs. (507 g)
Width: 7.54” (191.6 mm)
Length: 4.49” (114.3 mm)
Height” 1.88” (47.7 mm)

Package Contents

– ENS620EXT 11ac Wave 2 Outdoor AP
– PoE Injector (EPA2410GP)
– Pole Mount Ring
– Mounting Screw Set
– RJ-45 Ethernet Cable
– Quick Installation Guide
– 2 – 2.4GHz 5dBi SMA Antennas
– 2 – 5GHz 5dBi SMA Antennas

Certifications

FCC
IC