

## Key features



- Fast file transfers & smooth video streaming with wireless speeds up to 300Mbps
- Best-in-value price for performance, affordable for large homes & small businesses
- Operates as a stand-alone AP or part of a scalable Neutron WLAN management solution

The EnGenius Neutron-series of wireless management products can be mixed and matched to create ideal wireless connectivity solutions for hotels, resorts, high schools, universities, corporate campuses, sports stadiums, arenas and for other companies and organizations.

This is a scalable solution for operations that occupy large properties and that need to deploy, monitor, and manage numerous EnGenius EWS wireless access points from one simple and accessible browser-based software platform. The EWS switches can support any small number of EWS wireless access points to several hundred depending on the number of EWS switches in the network.

The EnGenius Neutron **EWS300AP** indoor ceiling-mount access point is an affordable single-band, wireless managed, 802.11n high-powered AP for large homes/small businesses looking for the best value. The AP can operate alone or as part of a scalable EnGenius Neutron-series wireless network management solution, centrally managed by ezMaster™, and expandable as your network needs grow. Any organization with limited IT support and budgets, can create a stable, secure wireless network in no time. This powerful solution can be quickly and easily deployed and operated by users with little to no networking experience.

## Technical specification

IEEE 802.11b/g/n on 2.4GHz  
IEEE 802.3af Power-over-Ethernet  
Radio I: 11b/g/n: 2.412-2.472 GHz

### Antenna

Two (2) 5dBi 2.4GHz Internal high gain antennas

### Physical interface

1\* 10/100/1000 Gigabit Ethernet port  
1\* DC Power connector  
1\* Reset button

### Physical security

Kensington security slot

### LED indicators

1\* Power  
1\* WLAN (Wireless connection)  
1\* LAN

### Power source

DC Input: 12VDC/1A  
PoE: Compatible with 802.3af

### Mounting

Ceiling or wall mount

### Memory capacity

Memory: 128 MB  
Flash memory: 16 MB

### Wireless & radio specifications

Single band

### Operation modes

Access point

### Transmit power

Up to 29dBm on 2.4GHz  
Max transmit power is limited by regulatory power

### Radio chains/Spatial streams

2x2: 2

### Supported data rates (Mbps)

2.4GHz: Max 300  
802.11b: 1, 2, 5.5, 11  
802.11g: 6, 9, 12, 18, 24, 36, 48, 54  
802.11n: 6.5 to 300 (MCS0 to MCS15)

### Supported radio technology

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

### Channelization

802.11n with 20/40 MHz channel width  
802.11b/g with 20 MHz channel width

### Supported modulation

802.11b: BPSK, QPSK, CCK  
802.11g/n: BPSK, QPSK, 16-QAM, 64-QAM

## Management

### Multiple BSSID

Supports up to 8 SSIDs

### VLAN Tagging

Supports 802.1q SSID-to-VLAN tagging  
VLAN Pass through  
Wireless client list  
Independent VLAN settings can be enabled or disabled  
Any packet without a VLAN tag will be inserted into a PVID (Ethernet port VID)  
Client traffic status

### Spanning tree

Supports 802.1d spanning tree protocol

### QoS

IEEE 802.11e/WMM

### SNMP

v1, v2c, v3

### MIB

I/II, private MIB

### Deployment options

Standalone (Individually managed)  
Managed by Neutron-series EWS switch

### Configuration

Web interface (HTTP)  
SNMP v1/v2c/v3 with MIB I/II and private MIB  
CLI (Telnet)

### Firmware upgrade

Web interface or CLI (FTP/HTTP)

### Backup/Restore settings

Revert to factory default settings

### Control features

CLI supported  
Multicast supported  
Wi-Fi scheduler  
PMKSA support for fast roaming  
Fast handover  
Schedule reboot/Auto reboot  
Client statistics  
E-Mail alert  
RADIUS accounting  
Guest network  
IPv4/IPv6

### Security

WEP (64/128/152-bit)  
WPA/WPA2 (TKIP/AES) Enterprise/PSK  
Hidden SSID  
MAC address filtering (up to 50 Fields)  
L2 isolation  
Client isolation  
802.1X authenticator (MD5/TLS/TTLS/PEAP)  
Guest network

### Environmental & physical

#### Temperature range

Operating: 32°F to 104°F (0°C to 40°C)  
Storage: -4°F to 140°F (-20°C to 60 °C)

#### Humidity (non-condensing)

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

