



Dual Band Wireless N900 Managed Indoor Access Point

Cutting edge 3x3 802.11n brings ultra-high connection speed on your WLAN for diversity of multimedia applications

EWS320AP is equipped with two powerful independent RF interfaces that support 2.4GHz 802.11b/g/n (3T3R) and 5GHz 802.11a/b (3T3R), offering bandwidth up to 450Mbps + 450Mbps to accommodate traffic-intensive applications such as multimedia streaming.

Enhanced signal strength to further extend WLAN coverage

Each radio of EWS320AP has been enhanced to provide higher signal strength and sensitivity; this will assist to reduce dead spots in your deployed WLAN and boost received signal quality on both ends of AP and wireless client devices.

Configuration and management with ease

EWS-series managed AP is designed to work with EWS-series Wireless Management switch as part of EnGenius' integrated WLAN management solution, providing intuitive web-based configuration, management and advanced wireless features such as fast handover, fast roaming and band steering. The AP is self-discovered by EWS management switch on your WLAN without extra efforts; once added into managed device list, WLAN administrator can easily use individual or cluster settings to fast deploy numbers of AP with desired settings, saving repetitive configuration task. Other than intuitive device management, this integrated solution provides map-view UI on EWS switch for AP placement visualization with built-in troubleshooting tools to perform diagnosis upon error occurred.

Key Features

- + IEEE 802.11 a/b/g/n compliant
- + Up to 450Mbps (2.4GHz) + 450Mbps (5GHz) wireless data transmission rate
- + Gigabit Ethernet port with IEEE 802.3at standard PoE support
- + Internal high-performance antennas for low-profile design
- + Integrated WLAN management solution with EWS-series PoE Switch
- + Advanced AP mode with mesh support*
- + SNMP v1/v2c/v3, MIB I/II supported
- + WEP/WPA/WPA2 wireless encryption
- + IPv4/IPv6 support
- + Effective and flexible bandwidth management
- + Band steering, client limit and fast handover supported
- + Guest network and client status supported

802.3at-compliant Power-over-Ethernet (PoE) for alternative power sourcing

EWS320 can be powered by enclosed power adapter or off-the-shelf 802.3at-compliant PoE switches, solving common power sourcing issue in the field where devices are usually placed at drop-ceiling or mounted on walls. With PoE power management from EWS management switch, AP device power budget and consumption can be real-time configured and monitored.

Advanced WLAN feature to facilitate effective spectrum usage

For effective spectrum usage, EWS320AP had enclosed band steering technology, enabling 5GHz-capable clients to associate with its 5GHz radio and offloading air utilization in 2.4GHz-band.

** With intelligent wireless mesh management from EWS switch, mesh connection can assist to further extend WLAN coverage; coupling with client limit and fast handover features, EWS310AP can preserve scarce wireless resources and best adapt to deployed environments.*

Flexible bandwidth management and enterprise-class WLAN security for versatile applications

EWS320AP offers multiple SSIDs (up to 16 sets) and each SSID can have its own bandwidth and WLAN security settings, enabling various applications running over WLAN with different levels of security strength and bandwidth limit. Regarding user mobility, PMKSA caching will facilitate fast roaming upon handoff so remaining 4-way handshake can complete key exchange within association process in reduced time interval. In addition, Guest Network feature also allocated a separate network segment for guest access within deployed WLAN so access attempts on internal networks can be restricted.

E-mail alert and syslog notification

EWS320AP offers network monitoring tools for WLAN administrators to stay informed upon configuration change or network errors.



Physical Interface

1. LAN Port (802.3af/at PoE)
2. Power Connector

Radio specification

Dual concurrent radio

- 2.4GHz: 802.11b/g/n with max data rate up to 450Mbps
- 5GHz: 802.11a/n with max data rate up to 450Mbps

Transmit Power (combined)

- 2.4GHz: max 28dBm
- 5GHz: max 28dBm
- Maximum transmit power is limited by regulatory power

Radio chains/Spatial streams

- 3 x 3 / 3

Support radio technology

- 802.11b: direct-sequence spread-spectrum (DSSS)
- 802.11a/g/n orthogonal frequency-division multiplexing (OFDM)

Channelization

- 802.11n with 20/40MHz channel width
- 802.11n with 20MHz channel width

Support modulation

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

Support data rates (Mbps)

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

Physical characteristics

Power source

- DC Input: 12 VDC 2A
- PoE: compatible with 802.3at
- PoE: compatible with 802.3af/at

Internal high gain antennas

- 3 x 3dBi 2.4GHz antennas
- 3x 5dBi 5GHz antennas

Interface

- 1x 10/100/1000 BASE-T Ethernet (RJ45) with 802.3at PoE

- 1x DC power connector

- 1x Reset button

Dimensions

- 161.5 x 41.5 mm (Diameter x Height)

Environment

- Operating temperature: 0°C ~ 40°C
- Operating humidity: 0% ~ 90% typical
- Storage temperature: -20°C ~ 60°C

Mounting

- Ceiling mount or wall mount

Physical security

- Kensington security slot

Wireless

Operating mode

- AP / Mesh AP (configured by EWS Switch)

Auto channel selection

- Setting carries by regulatory domains

SSID

- Supports up to 8 SSIDs per frequency band

Wireless Client List

Guest network

QoS

- Supports 802.11e/WMM

Band Steering

Mobility

- PMKSA support for fast roaming

Security

- WEP encryption: 64/128/152
- WPA/WPA2 Enterprise/PSK
- Hidden SSID
- MAC address filtering (up to 50 MAC)
- Client Isolation

Mesh*

Auto configuration by EWS management switch

- Secure mesh link with WPA2 encryption
- Self-forming mesh connection within clustered managed APs on EWS switch

Wireless service coverage extension beyond Ethernet cabling

Management

Deployment options

- Standalone (individually managed)
- Managed by 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)

Back up / Restore settings

- Revert to factory default settings

Auto reboot

- Specifies interval to reboot system periodically

E-mail alert / Syslog notification

*Phase-2 released feature through future firmware upgrade (TBA)