EnGenius

EWS860AP

Datasheet

Key features

- Dynamic Channel optimization
- Up to 450Mbps on 2.4GHz, Up to 1300Mbps on 5GHz.
- Band Steering shifts dual-band clients to 5GHz for better throughput performance
- Made for harsh outdoor environments

High power, high sensitivity and high reliability solution designed to operate under harsh environments

The EWS860AP is a versatile, high power outdoor access point designed withstand harsh environments making it an ideal solution for creating outdoor wireless networks. With transfer rates up to 1300Mbps in 5GHz and 450Mbps in 2.4GHz, users are able to enjoy faster wireless connections for bandwidth hungry applications such as audio, video and voice streaming. With its IP68-rated waterproof enclosure and the exible mounting capabilities, this product is suitable to be installed in stadium, school campuses, stations, airports, manufacturing plats or virtually any venue requiring a robust outdoor wireless solution.

Enhanced signal strength to further extend WLAN coverage

Equipped with detachable antennas designed for high power radio, the EWS860AP 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.

Power over Ethernet (PoE) support and PSE Output

The EWS860AP comes with 2 Gigabit Ethernet ports: 1x IEEE802.3at PoE input for connecting to the power source, and one IEEE 802.3af PSE output for powering other PoE capable devices like IP cameras in environments where electric sockets are not available.

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Wireless radio specification

Dual radio, 5GHz 802.11a/n/ac
and 2.4GHz 802.11b/g/n
- 2.4GHz: Max 450Mbps
- 5GHz: Max 1300Mbps
- Dual concurrent radio support

Transmit power (maximum value)
- 2.4GHz/5GHz: Max 29dBm
- Maximum power is limited by regulatory power

Supported radio technologies
- 802.11b: direct-sequence spread-spectrum (DSSS)
- 802.11a/g/n/ac:
Orthogonal freuqency-division multiplexing (OFDM)
- 802.11n/ac: 3x3 MIMO with 3 streams
- 802.11ac with 20/40/80MHz channel width
- 802.11n with 20/40MHz channel width
- 802.11a/b/g with 20MHz channel width

Supported modulation types
- 802.11b: BPSK, QPSK, CCK
- 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM

Supported data rates (Mbps)
- 802.11b: 1,2, 5.5, 11
- 802.11a/g: 6, 9, 12, 18, 36, 48, 54
- 802.11n: 6.5 to 450 (MCS0 to MCS23)
- 802.11ac: 6.5 to 1,300 (MCS0 to MCS9, NSS=1 to 3)

Power

Power source
- 802.3af/at compliant source
- Active Ethernet (Power over Ethernet, PoE)

Atennas

Six detachable high gain antennas
- Three detachable 5dBi 2.4GHz antennas
- Three detachable 7dBi 5Ghz antennas

Omni-directional type
- Provide the optimal coverage

Compliant with N-type connector

Interface

Two 10/100/1000 BASE-T Ethernet Port
- One port (LAN1) supports 802.3af/at PoE input
- One port (LAN2) supports 802.3af PSE output
- LAN2 can provide the power when using 802.3at PoE input instead of proprietary input.

Reset button on the PoE injector (EPE-48GR)

Mechanical & environment

Dimensions/Weight
- 285mm (L) x 218mm (W) x 55.5mm (H)
- 1890g (without mounting kit and antennas)

Operating
- Temperature: -20°~70°C

Surge protection: 20KV
(certificated standard is 8KV)
ESD protection: 6KV
(certificated standard is 1KV)
Harsh environment use
- IP68 rated

Operation mode

A variety of operation modes to serve multiple constituencies and applications. (Access point, WDS and Mesh (future firmware).

Easy management

Auto channel selection
- Setting varies by regulatory domains.

SSIDs
- BSSID support
- 16 SSIDs support
- Supports 8 SSIDs on both 2.4GHz and 5GHz band

SNMP & MIB
- v1/v2c/v3 support, MIB I/II, Private MIB

Save configuration as default
- Saves the customized con guration as default value for different customer demands.

Clients traffic status
- Reports the various main information timely which is required by administrator.

Guest network
- Allows the administrator to manage easily grant "visitor" access within the network.

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E-mail alert
- Provides a network monitoring tool for administrators to stay informed the configuration change.
QoS
- Compliant with IEEE802.11e standard
RADIUS accounting
- Help operators to o oad 3G to Wi-Fi
seamlessly

Effective control and use
CLI comments support
- Setting varies by regulatory domains
Distance control (Ack Timeout)
Multicast supported
Wi-Fi scheduler
- Set the schedule for rebooting the device
Band steering
- Shift the clients from 2.4GHz band to 5GHz band when te clients contest in 2.4GHz band
Fast roaming
- Minimize perceptible delay during re-association.
Fast handover
- Steer clients from the AP to other APs under the same encryption and SSID when the signal is above the default value.

Reinforcement security
WEP Encryption: 64/128/152 bit
WPA/WPA Enterprise (WPA-EAP using TKIP or AES)
Hide SSID in beacons
MAC address filtering
- Filter up to 32 MACs per SSID
Wireless STA (client) connection list
- Reports the various main information timely which is required by administrator
HTTPS
- Widely used communications approach for securing communication over a computer network.
SSH
- Provide con dentiality and integrity of data over an unsecured network, such as the Internet.