EnGenius

Datasheet EWS310AP

Dual Band Wireless N600 Managed Indoor Access Point

Dual-band concurrent 2 x 2 802.11n brings ultra-fast connection speed on your WLAN for diversity of bandwidth-intensive applications.

EWS310AP equips with two powerful independent RF interfaces that support 2.4GHz 802.11b/g/n (2T2r) and 5GHz 802.11a/n (2T2R), offering bandwidth up to 300Mbps + 300Mbps to accommodate traffic-intensive applications such as multimedia streaming.

Enhanced Signal Strength to Further Extend WLAN Coverage

Each radio of EWS310AP 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 EW-series Wirless Management Switch as part of Engenius' integrated WLAN management solution, providing intuitive web-based configuration, management and advanched 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 trouble-shooting tools to perform diagnosis upon error occured.

Key Features

+ IEEE 802.11 a/b/g/n compliant

+ Up to 300 Mbps (2.4GHz) + 300 Mbps (5GHz) wireless data transmisson rate

+ Gigabit Ethernet port with IEEE 802.3 af/at 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

EnGenius Europe | Veldzigt 28, 3454 PW Utrecht
+31 (0)30 66 91 417 | info@engenius-europe.com

Follow us

www.engenius-europe.com

802.3at-compliant Power-over-Ethernet (PoE) for Alternative Power Sourcing
EWS310AP can be powered by enclosed power adapter or off-the-shelf 802.3af/at-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, EWS310AP 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
EWS310AP 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. Regadering 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 seperate network segment for guest access within deployed WLAN so access attempts on internal networks can be restricted.

E-mail Alert and Syslog Notification
EWS310AP 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

EnGenius Europe | Veldzigt 28, 3454 PW Utrecht
+31 (0)30 66 91 417 | info@engenius-europe.com

Follow us

www.engenius-europe.com

Specifications

Radio Specification
Dual Concurrent Radio
- 2.4GHz: 802.11b/g/n with max data rate up to 300Mbps
- 5GHz: 802.11a/n with max data rate up to 300Mbps
Transmit Power (combined)
- 2.4GHz: max 29dBm
- 5GHz: max 26dBm
- Maximum transmit power is limited by regulatory power
Radio Chains / Spatial Streams
- 2 x 2 / 2
Support Radio Technology
- 802.11b: direct-sequency spread-spectrum (DSSS)
- 802.11a/g/n orthogonal frequency-division multiplexing (OFDM)
Channelization
- 802.11n with 20/40 MHz channel width
- 802.11a/b/g with 20 MHz 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 802.3af/at
Internal High Gain Antennas
- 2 x 5dBi 2.4GHz antennas
- 2 x 5dBi 5GHz antennas
Interface
- 1x 10/100/1000 BASE-T Ethernet (RJ45) with 802.3af/at 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 huminity: 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 caries by regulatory domains
SSID
- Supports up to 8 SSIDs per frequency band
VLAN Tag / VLAN Pass-through
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 clustured managed APs on EWS switch
Wireless service coverage extension beyond Ehternet 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)
Backup / 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)*

EnGenius Europe | Veldzigt 28, 3454 PW Utrecht
+31 (0)30 66 91 417 | info@engenius-europe.com

Follow us

www.engenius-europe.com