EnGenius

Wireless N300 Managed Indoor Access Point

The EWS210AP can operate as a stand-alone Access Point connecting to third-party PoE-capable switches but more control and versatile management of the Access Point is achievable when it is part of an EnGenius Neutron Series wireless network management solution. This because the AP includes firmware that enables it to be immediately discovered, configured, monitored and managed from a compatible Neutron Series PoE+ Switch (EWS5912FP, EWS7928FP or EWS7952FP).

This capability enables IT managers to deploy and manage up to 50 EWS210APs from Neutron Series Switch. Allowing simplified management from one browser-based interface including simultaneous firmware upgrades, clustering, traffic monitoring, bandwidth steering and many other features that can be reset or reconfigured from the convenience of the IT manager's desktop.

Operating in the 2.4GHz frequency spectrum and supporting 802.11b/g/n standards the EWS210P features wireless speeds up to 300Mbps. It has a Gigabit port for connecting to 802.3at/af-capable PoE Switches, and an enhanced receive sensitivity MIMO (Multiple In / Multiple Out) antenna array. As a result, the EWS210AP is ideal for spacious environments such as large homes, small and medium-sized businesses, multiple-floor offices, hotels, hospitals, and other multi-floor buildings.

As the EWS210AP is designed for deployments on ceilings where power outlets may be scarce, it also comes equipped with PoE (Power-over-Ethernet) IEEE 802.3at/af for use with an 802.3at/af-capable PoE injector or 802.3at/af-capable PoE Switches, drawing up to 15.6 watts of power.

To protect sensitive data during wireless transmissions, the EWS210AP offers different industry-standard encryption settings for wireless transmissions, including WEP, WPA-PSK, WPA2-PSK, WPA-PSK Mixed, WPA Enterprise, WPA2 Enterprise, and WPA2 Mixed Enterprise. It also includes MAC address filtering to allow network administrators to offer network access only to verified computers and devices based on their MAC addresses.

Key Features

+ IEEE 802.11b/g/n compliant

+ up to 300Mbps

+ Gigabit Ethernet port with IEEE 802.3af/at standard PoE support

+ Internal high-performance antennas for low profile design

+ Integrated WLAN management solutions

+ SNMP v1/v2c/v3, MIB I/II supported

+ IPv4/IPv6 support

+Client limit and Fast handover supported

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Radio specification

Operation frequency:
- 2.4GHz: 802.11b/g/n with max data rate up to 300Mbps
Transmit Power (combined):
- 2.4GHz: max 29dBm
- 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)
- 802.11g/n: orthogonal frequency-division multi-plexing (OFDM)
Channelization
- 802.11n with 20/40MHz channel width
- 802.11b/g with 20MHz channel width
Support Modulation
- 802.11b: BPSK, QPSK, CCK
- 802.11b/g: BPSK, QPSK, 16-QAM, 64-QAM
Support data rates (Mbps)
- 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)

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
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
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-bit
- 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 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

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