

Key features



- Easy-to-deploy, lowers install costs for hotel guest rooms, dorms & classrooms
- Sleek, low profile design mounts onto a standard J-box
- Integrated 802.11n wireless AP & 4-port switch
- Operate as a stand-alone AP or as part of a scalable Neutron WLAN management solution

The EnGenius Neutron **EWS510AP** dual-band wireless wall plate access point provides in-room wireless, Power-over-Ethernet (PoE) and wired connectivity in a single high performance device installed onto a standard junction box. It can function as a stand-alone access point or part of a scalable wireless network management solution and managed via a WLAN controller switch or centrally managed by ezMaster™ network management software. The AP is easy-to-deploy, lowering the cost of wireless implementation for hotel guest rooms, student residences, retirement facilities, multi-tenant dwellings and classrooms.

Delivering high performance, dual-band 2.4GHz and 5GHz 802.11n wireless coverage with data speeds up to 300Mbps. It comes with an enhanced receive sensitivity MIMO (multiple-in/multiple-out) . With his two (2) 4dBi (2.4GHz) and two (2) 5dBi (5GHz) internal antennas compliment its sleek low profile design ensuring it will not obstruct furniture placement as it blends with in-room décor.

For wired connectivity, the AP features four (4) Ethernet downlink ports including, three (3) 10/100Mbps ports to support in-room connectivity for IPTVs, networked minibars, printers or game consoles. One (1) 10/100Mbps 802.3af-compliant PoE port for powering VoIP phones directly through the AP without additional cabling, switch ports or power sourcing equipment. An additional passive RJ45 pass-through port and 110 punch-down block is available for phone or fax machine connections.

Technical specification

802.11b/g/n
802.3af/at

Internal antennas

(2) 4dBi 2.4GHz &
(2) 3dBi 5GHz omni-directional

Physical interface

1* 10/100/1000Mbps uplink port with
802.3af PoE
3* 10/100Mbps access ports
1* 10/100Mbps access port with PoE output
(Supports 802.3af output when PoE input is
802.3at)
2* RJ45 pass through ports
1* 110 punch down block
1* DC power connector
1* Reset button

LED indicators

1* Power
1* WAN
1* 2.4GHz
1* 5GHz
1* LAN 1-4

Power source

DC Input: 48VDC/0.8A

Memory capacity

RAM: 128 MB
Flash: 16 MB

Wireless & radio specifications

Operating frequency
2.4GHz, single-band

Operation modes

AP mode

Transmit power (combined)

2.4GHz: max 20 dBm
5GHz: max 20 dBm

Radio chains/Spatial streams

2 x 2: 2

Supported data rates (Mbps)

2.4GHz: Max 300Mbps
5GHz: Max 300Mbps
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 technologies

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

Channelization

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

Supported modulation

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

Management

Deployment options
Stand alone mode
Managed mode (by Neutron switch/ezMaster)

Auto-Channel selection

Multiple SSID: 8 SSIDs per frequency band
VLAN Tag/VLAN pass-through
Wireless client list
Guest networks
Mobility: PMKSA support for fast roaming
Firmware upgrade: Web interface or CLI
(FTP/HTTP)
Backup/Restore settings
Schedule reboot
Email alert/Syslog notification

Configuration

Web interface (HTTP)
SNMP v1/v2c/v3
MIB I/II, Private MIB
CLI (Telnet)

Control

Managed mode (by Neutron switch or ezMaster)
CLI supported
Band steering

Security

WEP encryption: 64/128/152-bit
WPA/WPA2 Enterprise/PSK
Hidden SSID
MAC address Filtering (up to 50)
Client isolation
Guest networks

QoS

Supports 802.11e/WMM (Wireless multi-media)

Environmental & physical

Temperature range

Operating: 32 °F to 122 °F (0 °C to 50 °C)
Storage: -4 °F to 140 °F (-20 °C to 60 °C)

Humidity (non-condensing)

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

