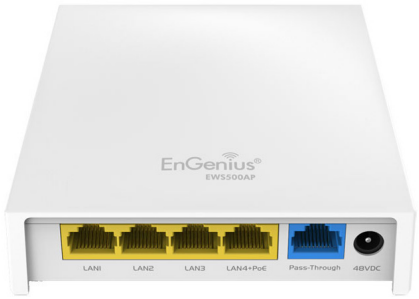
EWS500AP

Datasheet



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 part of a scalable Neutron WLAN management solution

The EnGenius Neutron **EWS500AP** 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 as part of a scalable network 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 2.4GHz 802.11n wireless coverage with speeds to 300Mbps, an enhanced receive sensitivity MIMO and two (2) 4dBi 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.

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Technical specification

802/11b/g/n
802.3af/at

Internal antennas
(2) 4dBi 2.4GHz Omni-directional

Physical interface
1* 10/100/1000 Mbps uplink port with 802.3af/at 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* 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

Radio chains/Spatial streams
2 x 2: 2

Supported data rates (Mbps)
2.4 GHZ: Max 300
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

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