EnGenius

EWS300AP

Datasheet

Key features

- Fast file transfers & smooth video streaming with wireless speeds up to 300Mbps
- Best-in-value price for performance, affordable for large homes & small businesses
- Operates as a stand-alone AP or part of a scalable Neutron WLAN management solution

The EnGenius Neutron-series of wireless management products can be mixed and matched to create ideal wireless connectivity solutions for hotels, resorts, high schools, universities, corporate campuses, sports stadiums, arenas and for other companies and organizations.

This is a scalable solution for operations that occupy large properties and that need to deploy, monitor, and manage numerous EnGenius EWS wireless access points from one simple and accessible browser-based software platform. The EWS switches can support any small number of EWS wireless access points to several hundred depending on the number of EWS switches in the network.

The EnGenius Neutron **EWS300AP** indoor ceiling-mount access point is an affordable single-band, wireless managed, 802.11n high-powered AP for large homes/small businesses looking for the best value. The AP can operate alone or as part of a scalable EnGenius Neutron-series wireless network management solution, centrally managed by ezMaster™, and expandable as your network needs grow. Any organization with limited IT support and budgets, can create a stable, secure wireless network in no time. This powerful solution can be quickly and easily deployed and operated by users with little to no networking experience.

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https://www.youtube.com/user/engeniuseuropebv

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Technical specification

IEEE 802.11b/g/n on 2.4GHz
IEEE 802.3af Power-over-Ethernet
Radio I: 11b/g/n: 2.412-2.472 GHz

Antenna
Two (2) 5dBi 2.4GHz Internal high gain antennas

Physical interface
1* 10/100/1000 Gigabit Ethernet port
1* DC Power connector
1* Reset button

Physical security
Kensington security slot

LED indicators
1* Power
1* WLAN (Wireless connection)
1* LAN

Power source
DC Input: 12VDC/1A
PoE: Compatible with 802.3af

Mounting
Ceiling or wall mount
Memory capacity
Memory: 128 MB
Flash memory: 16 MB

Wireless & radio specifications
Single band

Operation modes
Access point

Transmit power
Up to 29dBm on 2.4GHz
Max transmit power is limited by regulatory power

Radio chains/Spatial streams
2x2: 2

Supported data rates (Mbps)
2.4GHz: 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 technology
802.11b: Direct-Sequence Spread-Spectrum (DSSS)
802.11g/n: Orthogonal frequency-division Multiplexing (OFDM)

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

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

Management

Multiple BSSID
Supports up to 8 SSIDs

VLAN Tagging
Supports 802.1q SSID-to-VLAN tagging
VLAN Pass through
Wireless client list
Independent VLAN settings can be enabled or disabled
Any packet without a VLAN tag will be inserted into a PVID (Ethernet port VID)
Client traffic status

Spanning tree
Supports 802.1d spanning tree protocol
QoS
IEEE 802.11e/WMM
SNMP
v1, v2c, v3
MIB
I/II, private MIB

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Deployment options
Standalone (Individually managed)
Managed by Neutron-series 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

Control features
CLI supported
Multicast supported
Wi-Fi scheduler
PMKSA support for fast roaming
Fast handover
Schedule reboot/Auto reboot
Client statistics
E-Mail alert
RADIUS accounting
Guest network
IPv4/IPv6

Security
WEP (64/128/152-bit)
WPA/WPA2 (TKIP/AES) Enterprise/PSK
Hidden SSID
MAC address filtering (up to 50 Fields)
L2 isolation
Client isolation
802.1X authenticator (MD5/TLS/TTLS/PEAP)
Guest network

Environmental & physical

Temperature range
Operating: 32°F to 104°F (0°C to 40°C)
Storage: -4°F to 140°F (-20°C to 60 °C)

Humidity (non-condensing)
Operating: 90% or less
Storage: 90% or less

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