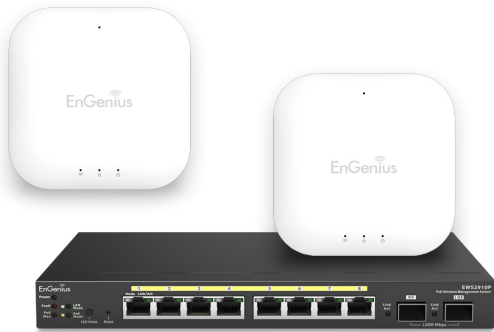


Key features



- Manage and monitor up to 20 wireless APs
- 8* 10/100/1000 Mbps ports
- Fast file transfers & smooth video streaming with wireless speeds up 300Mbps
- Best-in-value price for performance, affordable for large homes & small businesses

The EnGenius Neutron **EWS2910P-Kit-300** WLAN starter kit, featuring an EWS2910P WLAN controller PoE switch and (2) EWS300AP indoor managed access points, is designed to affordably create or expand a high-powered Wi-Fi network in large homes or small businesses. Easily set-up, manage your Wi-Fi locally or remotely via ezMaster network management software and expand the system as your business and network needs grow.

Neutron EWS300AP indoor managed access point

Because the EWS300AP is designed for discrete ceiling placement, where power outlets may be scarce, it supports Power-over-Ethernet (PoE) allowing the AP to be powered through the connected Ethernet cable via one of the eight (8) PoE 802.3af-capable switch ports on the EWS2910P.

Wireless LAN controller PoE switch

When used with Neutron managed access points, the WLAN controller PoE switch allows for quick AP discovery, configuration and monitoring. The EWS2910P can manage up to 20 Neutron APs through its suite of wireless management features. Combine these with ezMaster software for centralized network management and redundant AP data reporting and monitoring with SmartSync Redundancy.*

*Feature available Q4 2015

EWS2910P Technical specifications

IEEE 802.3/802.3u/802.3ab

IEEE 802.3af

Switching capacity: 20Gbps

Forwarding mode: Store and forward

Physical interface

LED indicators

Mode selector & reset

PoE RJ45 Ethernet port

Dual speed SFP slots

Network ports

8* 10/100/1000Mbps ports

2* 100/100Mbps SFP ports

LED indicators

Device:

Power LED

Fault LED

PoE max LED

LAN mode LED

PoE mode LED

Copper ports:

LAN/PoE mode LED

Link/Act LED

SFP ports:

Speed

Link/Act LED

Power source

DC48V/1.75A or DC54V/1.66A

power adapter

PoE capability

8-Ports support IEEE802.3af

8-Ports output up to 15 Watts each

Total PoE power budget: 61.6 Watts

Memory capacity

SDRAM: 256 MB

Flash memory: 32 MB

Wireless management features

AP supported (20 APs)

Access point auto discovery and provisioning

Access point auto IP-Assignment

Access point cluster management

Mesh network

Remote access point rebooting

Access point device name editing

Access point radio settings

Band steering

RSSI Threshold

Traffic shaping

Fast handover

Fast roaming

Access point client limiting

Wireless security (WEP, WPA/WPA2 Enterprise,

WPA/WPA2 PSK)

VLANs for access point-multiple SSIDs

Secured guest network

Capture portal

Rogue AP detection

Email alert

Access point status monitoring

Wireless client monitoring

Wireless traffic & usage statistics

Real-time throughput monitoring

Visual topology view

Floor plan view

Wireless coverage display

Map view

Secure control messaging

SSL certificate

Local MAC address database

Remote MAC address database (RADIUS)

Unified configuration import/export

Intelligent diagnostics

AP LED On/Off control

Bulk firmware upgrade capability

One-click update

Layer 2 features

802.3ad compatible link aggregation
 802.1D Spanning Tree (STP)
 802.1w Rapid Spanning Tree (RSTP)
 802.1s Multiple Spanning Tree (MSTP)
 IGMP snooping v1/v2/v3
 MLD snooping
 Bandwidth control
 802.3az (Energy Efficient Ethernet)
 Power class configuration
 Power feeding with priority
 User defined power limit
 IGMP Fast leave
 Port trunking
 Port mirroring: One-to-one and many-to-one
 VLAN group
 Voice VLAN
 Queue
 CoS based on 802.1p priority
 CoS based on physical port
 CoS based on TOS
 CoS based on DSCP
 BootP/DHCP client
 Firmware burn-proof
 802.1X Port-based access control
 802.1X guest VLAN
 Port security
 Port isolation
 Storm control
 Attack prevention
 Access control list (ACL)
 Telnet server
 TFTP client
 TFTP upgrade
 BootP/DHCP client
 Web-based support
 SNMP v1/v2/v2c/v3 support
 Command Line Interface (CLI)
 SNTp
 RMONv1
 SYSLOG
 Cable diagnostics
 MIB support
 RFC1213
 RFC1493

RFC1757

RFC2674

Environment & mechanical

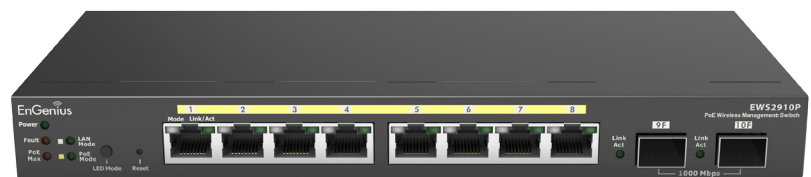
Temperature range

Operating: 32 to 104°F/0 to 50°C

Storage: -40 to 158°F/-40 to 70 °C

Humidity (Non-condensing)

5% - 95%



EWS300AP Technical specifications

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 20/40MHz 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

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

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

Environment & 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

