Key features

- Dual-band 11ac speeds to 867Mbps on 5GHz & speeds to 300Mbps on 2.4GHz band

- Internal high gain antenna

- Band steering shifts dual-band clients to 5GHz improving performance & expanding user capacities

- IP55-rated waterproof & dustproof casing withstands harsh environments

EnGenius Neutron EWS650AP 11ac outdoor access point is a high-powered dual band outdoor managed wireless access point with expanded capacity and fast 11ac wireless speeds to 867Mbps on 5GHz and to 300Mbps on the 2.4GHz band. It can function as a stand-alone access point or part of a scalable Neutron WLAN management solution. The access point features a high transmit RF power of 27dBm on 2.4GHz and 26dBm on the 5GHz frequency band, for greater wireless coverage outdoors.

High-speed performance for today's demanding applications
Outdoor 11ac wireless speeds to 867Mbps on 5GHz & speeds to 300Mbps on the 2.4GHz band support demanding, high bandwidth applications for multiple users.

Achieve a lower Total Cost of Ownership (TCO) per deployment
Enjoy NO access point licensing fees, annual subscriptions or tech support charges; you'll save a tremendous amount of time and cost in network management.

Operate as a stand-alone access point or part of a scalable WLAN management solution
Deploy as a stand alone access point for or as a part of a scalable Neutron WLAN solution managed via a WLAN controller switch or centrally managed via ezMaster software.

Unlimited flexibility and scalability
Scale your network as your needs grow, manage a few or over 1,000 Neutron devices on networks in different locations and 10 - 10,000 concurrent users with or without an on-site controller.

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

Implement as a Cloud-based, remote or locally managed platform

EzMaster's flexible deployment options offer greater manageability regardless of network size, location, infrastructure, scale and ISP.

Visibly rich reporting and analytics

EzMaster provides complete network visibility in areas such as traffic flow, demand, network topology and more.

Captive Portal - Corporate branded, regulated, secure Internet access for customers

Ideal for retail stores, coffee shops, hotels and other organizations that offer Internet access to customers.

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Technical specifications

Standard
IEEE 802.11b/g/n on 2.4GHz
IEEE 802.11a/n/ac on 5GHz
IEEE 802.3at

Antenna
5dBi internal omni-directional antennas

Physical interface
2* 10/100/1000 Gigabit Ethernet ports
 - LAN1: Supports 802.3at PoE input
 - LAN2: Data pass through
1* Reset button
1* Power connector

Physical security
Kensington security slot

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

Power source
External power adapter on PoE injector
DC IN, 48 V/0.8A
IEEE 802.3at compliant source
Active Ethernet (PoE)

Mounting
Wall mount
Pole mount

Memory capacity
Memory: 128MB
Flash memory 16MB

Wireless & radio specifications
Dual band

Operation modes
Access point

Peak power
Up to 23W

Transmit power
Up to 27dBi on 2.4GHz
Up to 26dBi on 5GHz
Max transmit power is limited by regulatory power

Radio chains/Spatial streams
2x2:2

Supported data rates (Mbps)
2.4GHz: Max 300
5GHz: Max 867
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)
802.11ac: 6.5 to 867 (MCS0 to MCS9, NSS=1~3)

Supported radio technology
802.11b: Direct-Sequence Spread-Spectrum (DSSS)
802.11a/g/n/ac: Orthogonal frequency-division Multiplexing (OFDM)

Channelization
802.11ac with 20/40/80MHz channel width
802.11n with 20/40MHz channel width
802.11a/b/g with 20MHz channel width

Supported modulation
802.11b: BPSK, QPSK, CCK
802.a/g/n: BPSK, QPSK, 16-QAM, 64-QAM
802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM

Management
Multiple BSSID
Supports up to 16 SSIDs, 8 SSIDs per radio

VLAN tagging
Supports 802.1q SSID-to-VLAN tagging
VLAN pass through
Spanning tree

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QoS
Compliant with IEEE 802.11e standard
WMM

SNMP
v1, v2c, v3

MIB
I/II, private MIB

Management features
Deployment options
Stand alone (Individually managed)
Managed mode (with Neutron-series switch/
ezMaster)

Auto-channel selection
Wireless STA (client) connection list
Guest network
Mobility: PMKSA support for fast roaming
Backup/restore settings
Auto reboot
Client statistics
E-Mail alert

Configuration
Web interface (HTTP)
CLI (Telnet)

Control features
Managed mode (by Neutron switch/ezMaster)
CLI supported
Band steering
Auto reboot
One-click firmware upgrade
Firmware upgrade: Web interface or CLI (FTP/HTTP)

Security
WEP encryption (64/128/152 bit)
WPA/WPA2 enterprise (PSK using TKIP or AES)
Hide SSID in beacons
MAC address filtering, up to 50 MACS per SSID
Https support
SSH support
Client isolation

Environment & mechanical

Temperature range
Operating: -4°F to 140°F, -20°C to 60°C
Storage: -22°F to 176°F, -30°C to 80 °C
Humidity (Non-condensing)
Operating: (90% or less
Storage: 90% or less

Ingress protection marking
IP55-Rated enclosure

Certifications
FCC, IC

Dimensions and weight
EWS650AP device
Weight: 1.89 lbs.
Width: 7.13" (181 mm)
Length: 11.97" (304 mm)
Height: 1.81" (46 mm)

Packaging
Weight: 3.43 lbs. (1.55 kg)
Width: 15.87" (403 mm)
Length: 21.18" (538 mm)
Height: 14.61" (371 mm)

Master carton
Weight: 36.46 lbs. (16.54 kg)
Width: 7.48" (190 mm)
Length: 12.99" (330 mm)
Height: 4.06" (103 mm)
No. of boxes per carton: 10

Package contents
EWS650AP 11ac outdoor access point
48 V/0.8A power adapter
PoE injector
Pole mount ring
Mounting screw set
Quick installation guide