EAP900H

can be used with
802.3at
capable switches or injectors

Ceiling Mount Design
Dual Band **N900** Access Point
Extend your company network and your Internet connection within your building so employees or guests can access them wherever they work.

The EnGenius EAP900H is a Dual Band Wireless N900 Indoor Access Point that features high transmit RF power of up to 28 dBm on both the 2.4 and 5 GHz frequency bands delivering connectivity to wireless laptops, tablets, smartphones and other devices within 3 floors of a typical office building, hotel or other multi-floor structure. With wireless speeds up to 450 Mbps on each radio and a Gigabit port for connecting to a switch or router, the EAP900H is ideal for expanding a network with additional bandwidth to support newer dual-band enabled devices.

Key Features

- Up to 28 dBm transmit power enabling long range connectivity

- Supports IEEE 802.11a/b/g/n wireless standards with up to 450 Mbps data rate on each band

- Six internal 5 dBi omni-directional MIMO antennas

- Can be monitored after deployment with EnGenius EZ Controller™ software for Windows (Free online download)

- Can be used with included power adapter or via PoE with PoE 802.3at - capable switches or injectors

- Dual Band/Three Stream

- SSID-to-VLAN Tagging

- Leader in Price/Performance

- Band Steering shifts dual band clients to 5 GHz for better overall throughput performance on both bands

- Guest Network option for more secure connectivity

Data Protection that never stops

The EAP900H has been designed to appear as a low-profile smoke detector and thus unobtrusively blend in with other common building infrastructure appliances. Because the EAP900H is designed for deployments on ceilings where power outlets may be scarce, it is also PoE (Power-over-Ethernet) IEEE 802.3at for use with an 802.3at-capable PoE injector or 802.3at-capable PoE switch. The EAP900H draws up to 25 watts of power.

This dual band Wireless N900 Access Point enables companies to connect to more employees, guests, staff or students who transfer large files within the network or use other bandwidth intensive applications like streaming HD video. The AP's Gigabit Ethernet port also offers greater bandwidth capacity and faster data transfers through the network. Its enhanced receive sensitivity and six internal MIMO (Multiple In/Multiple Out) antennas, extend wireless coverage and enhance connectivity to client devices even in areas where connections have been previously challenging or non-existent.

Band Steering Keeps Data Moving at Optimal Speeds

The EAP900H features Band Steering, which is a selectable setting in the browser-based interface that a network administrator can invoke. Once selected, Band Steering enables the EAP900H to recognize dual band or 5 GHz-capable client devices in the network and automatically pushes those clients to the 5 GHz SSID. Doing so alleviates the congested network traffic often found on the 2.4 GHz frequency band thus optimizing connectivity and wireless speed for all the client devices associated with the Access Point.

The EAP900H can also be configured to operate in as a dual band Wireless N900 Access Point or a WDS (Access Point or Bridge).

Seamless Roaming

The EAP900H supports PMKSA that distributes and caches a designated WPA/WPA2-Enterprised encryption key to neighboring EAP Access Points. This feature along with a Fast Handover feature that detects a weakening wireless link between Access Point and client initiates a handover of the client from one EAP Access Point to the nearest Access Point with a stronger signal to keep clients continuously and seamlessly connected to the network.

Remote Management

The EAP900H is remotely manageable with SNMP v1/v2c/v3 with MIB I/II and private MIB.
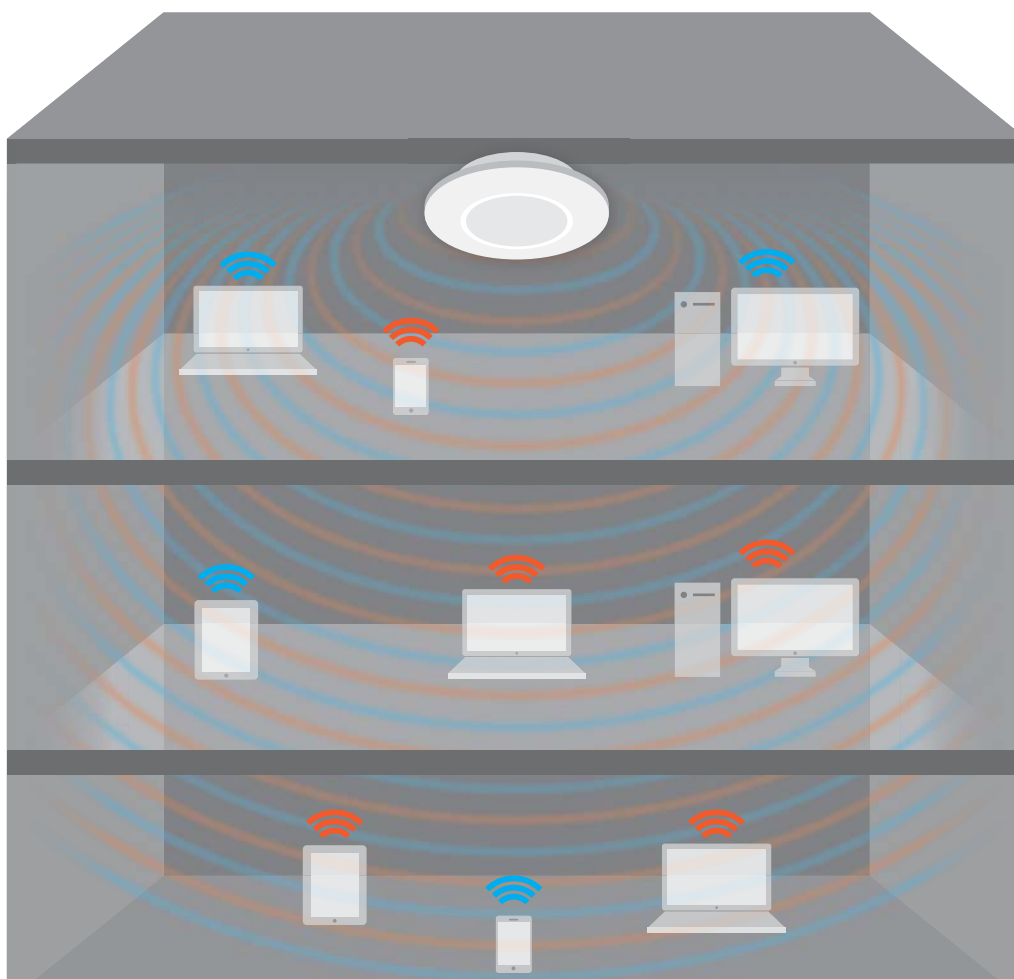
2.4 GHz (450 Mbps)   5 GHz (450 Mbps)

Specifications

Standards

IEEE 802.11a on 5 GHz
IEEE802.11b/g/n on 2.4 GHz
IEEE802.3at

Antenna

Six (6) Internal 5 dBi Omni-directional Antennas

Physical Interface

1 x 10/100/1000 Gigabit Ethernet Port
1 x Reset Button
1 x Power Connector

LED Indicator

Power
WPS
WLAN (Wireless Connection)
LAN

Power Requirements

Active Ethernet (Power-over-Ethernet)
Proprietary PoE Design
Power Adapter (United States)

Wireless Functional List

Operation Modes

Access Point / WDS

WDS Detail

WDS AP
WDS Bridge

Security

WEP (64/128bit)
WPA/WPA2 (TKIP/AES)
Hidden SSID
MAC address filtering, up to 50 field
L2 Isolation
802.1x Authenticator (MD5/TLS/TTLS/PEAP)
Guest Network

QoS (Quality of Service)

WMM (Wireless Multimedia)

Environmental & Mechanical

Temperature Range

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

Humidity (non-condensing)

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

Weights & Measures

Diameter: 6.36"	
Height: 1.64"	

Packaging

Width: 2.8"	
Length: 12.2"	
Height: 9.2"	

Package Contents

EAP900H Access Point
Power Adapter
RJ-45 Ethernet Cable
Quick Installation Guide
Wall Mount Screw kit

Environmental & Mechanical

Physical Interface

1: Reset Button	**4:** Power Connector
2: LED Indicators	**5:** Ceiling (Wall) Mount Hole
3: Gigabit Ethernet LAN Port 802.3at (PoE)	**6:** Kensington Security Slot

Maximum data rates are based on IEEE 802.11 standards. Actual throughput and range may vary depending on many factors including environmental conditions, distance between devices, radio interference in the operating environment, and mix of devices in the network.