

EAP900H

Dual Band Long Range Ceiling Mount
Access Point

- 2.4 GHz + 5GHz
- 450Mbps + 450Mbps
- AP/WDS/Repeater

PRODUCT OVERVIEW



EAP900H equips with two powerful independent RF interfaces that support 2.4GHz 802.11b/g/n (3T3R) and 5GHz 802.11a/n (3T3R), offering bandwidth up to 450Mbps + 450Mbps to accommodate traffic-intensive applications such as multimedia streaming.

EAP900H can be powered by enclosed power adapter or off-the-shelf 802.3at-compliant PoE switches; solving common power sourcing issue in the field where devices are usually placed at drop-ceiling or mounted on walls.

Each radio of EAP900H can independently operate in 3 different modes, namely Access Point, WDS AP, or WDS Bridge; this will allow multiple combinations of operation modes on single device to address deployment requirements.

Besides intuitive web-based management, EnGenius EZ Controller software utility provides user extra convenience on applying various configuration settings into devices, enabling prompt WLAN deployment and configuration update.

For effective spectrum usage, EAP900H has enclosed band steering technology, enabling 5GHz-capable clients to associate with its 5GHz radio and offloading air utilization in 2.4GHz-band. In addition, EnGenius fast roaming minimizes service down-time during handoff from one base station to another.

Software Specifications	
Wireless	
Operating Mode	Access Point, WDS AP
Auto Channel Selection	Setting based on regulatory domains
Configuration functions	Supports up to 8 SSIDs per frequency band VLAN Tag / VLAN Pass-through Wireless Client List
Guest Network	Allocates a separate network segment for guest access within the same WLAN
QoS	Supports 802.11e/WMM
Band Steering	Moves 5GHz-compatible clients to 5GHz band to ease traffic congestion on 2.4GHz band
Mobility	PMKSA support for fast roaming Fast handover by RSSI control
Security	WEP encryption: 64/128/152-bit WPA/WPA2 Enterprise/PSK Hidden SSID MAC address filtering (up to 50 MAC) Station separation
Management	
Configuration	Web interface (HTTP/S) SNMP v1/v2c/v3 with MIB I/II and private MIB CLI (Telnet/SSH)
Firmware Upgrade	Web interface or CLI
Backup / Restore Settings	Revert to factory default settings
Save Configuration as Default	Saves the customized configuration as default
Auto Reboot	Specifies interval to reboot system periodically
E-mail Alert / Syslog Notification	Provides a network monitoring tool for administrators to stay informed upon configuration change or network errors

Hardware Specifications

Radio specifications

Dual Concurrent Radio	2.4GHz: 802.11b/g/n with max data rate up to 450Mbps 5GHz: 802.11 a/n with max data rate up to 450Mbps
Transmit Power (combined)	2.4GHz: max 16dBm 5GHz: max 15dBm <i>* Maximum transmit power is limited by regulatory power</i>
Radio Chains / Spatial Streams	3 x 3 / 3
Supported Radio Technology	802.11b: direct-sequence spread-spectrum (DSSS) 802.11a/g/n: orthogonal frequency-division multiplexing (OFDM)
Channelization	802.11n with 20/40 MHz channel width 802.11a/b/g with 20 MHz channel width
Supported Modulation	802.11b: BPSK, QPSK, CCK 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM
Supported data rates (Mbps)	802.11b: 1, 2, 5.5, 11 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 802.11n: 6.5 to 450 (MCS0 to MCS23)

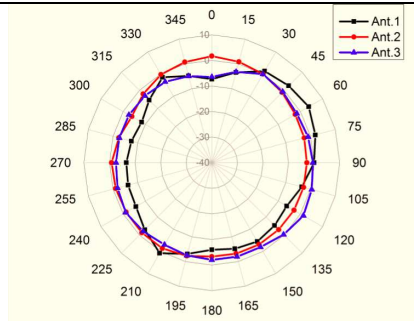
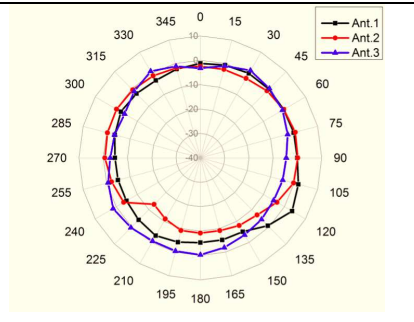
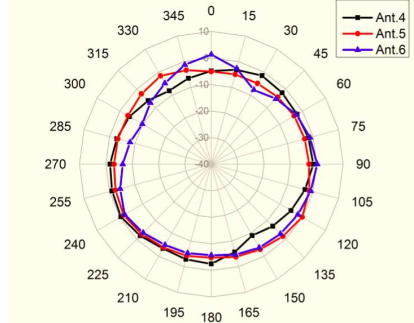
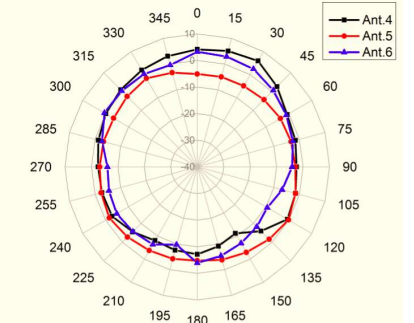
RF Performance Table

Channel	Data Rate	Transmit Power (Combined, dBm)	Receive Sensitivity (Combined, dBm)
802.11b 2.4 GHz	1 Mbps	16.0	-96.0
	2 Mbps	16.0	-95.0
	5.5 Mbps	16.0	-95.0
	11 Mbps	16.0	-93.0
802.11g 2.4 GHz	6 Mbps	15.0	-92.0
	54 Mbps	14.0	-76.0
802.11a 5 GHz	6 Mbps	15.0	-92.0
	54 Mbps	14.0	-76.0
802.11n HT20 2.4 GHz	MCS 0 / 8 / 16	16.0	-92.0
	MCS 7 / 15 / 23	15.0	-73.0
802.11n HT40 2.4 GHz	MCS 0 / 8 / 16	16.0	-88.0
	MCS 7 / 15 / 23	15.0	-72.0
802.11n HT20 5GHz	MCS 0 / 8 / 16	14.0	-92.0
	MCS 7 / 15 / 23	13.0	-73.0
802.11n HT40 5GHz	MCS 0 / 8 / 16	14.0	-88.0
	MCS 7 / 15 / 23	13.0	-72.0

**Maximum transmit power is limited by local regulation.*

**The supported frequency band is restricted by local regulatory requirements.*

*Transmit power is configurable in 1.0dB increments.

Max. Antenna Gain	3 x 3dBi 2.4GHz antennas 3 x 5dBi 5GHz antennas	
Radiation pattern	2.4GHz Azimuth-Plane	2.4GHz Elevation-Plane
		
	5GHz Azimuth-Plane	5GHz Elevation-Plane
		
Physical Characteristic		
Power Source	DC Input: 12 VDC 2A PoE: compatible with 802.3at	
Interface	1 x 10/100/1000 BASE-T Ethernet (RJ45) with 802.3at PoE 1 x DC power connector 1 x reset button	
Dimensions / Weight	161.5 x 41.5mm (Diameter x Height) 290g	
Mounting	Ceiling Mount and Wall Mount	
Physical Security	Kensington security slot	

ENVIRONMENT AND MECHANICAL

EAP900H Data sheet Version 020614

*Theoretical wireless signal rate based on IEEE standard of 802.11 a, b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

** All specifications are subject to change without notice

BUSINESS CLASS

EAP900H

Temperature Range	Operating temperature: 0°C~40°C
Humidity (non-condensing)	Operating humidity: 0%~90% typical Storage temperature: -20°C~60°C

CERTIFICATION
FCC
CE
IC

PACKAGE CONTENT
1 x EAP900H
1 x Power Adapter
1 x CD with User's Manual
1 x QIG
1 x Ethernet cable
1 x T-Rail Mounting Kit
1 x Ceiling/Wall Mount screw kit
1 x Mounting Bracket