

EAP1750H

11AC Long Range Ceiling Mount Access Point

- 2.4 GHz + 5GHz
- 450Mbps + 1300MbAP/WDS

PRODUCT OVERVIEW



EAP1750H equips with two powerful independent RF interfaces that support 2.4GHz 802.11b/g/n (3T3R) and 5GHz 802.11a/n/ac (3T3R), offering bandwidth up to 450Mbps + 1300Mbps to accommodate trafficintensive applications such as multimedia streaming.

Each radio of EAP1750H has been enhanced to provide higher signal strength and receive sensitivity; this will assist to reduce dead spots in your deployed WLAN and boost received signal quality on both ends of AP and wireless client devices.

EAP1750H 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 EAP1750H 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, EAP1750H 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/ac with max data rate up to 1300Mbps	
Transmit Power (combined)	2.4GHz: max 16dBm	
	5GHz: max 15dBm	
	* Maximum transmit power is limited by regulatory power	
Radio Chains / Spatial Streams	3 x 3 / 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 20/40/80 MHz channel width	
	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	
	802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-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)	
	802.11ac: 6.5 to 1300 (MCS0 to MCS9, NSS = 1 ~ 3)	

RF Performance Table

Channel	Data Rate	Transmit Power (Combined, dBm)	Receive Sensitivity (Combined, dBm)
	1 Mbps	16.0	-96.0
000 441 0 4 011	2 Mbps	16.0	-95.0
802.11b 2.4 GHz	5.5 Mbps	16.0	-95.0
	11 Mbps	16.0	-93.0
000 44~ 0 4 CH=	6 Mbps	15.0	-92.0
802.11g 2.4 GHz	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	15.0	-92.0
	MCS 7 / 15 / 23	14.0	-73.0
802.11n HT40 2.4 GHz	MCS 0 / 8 / 16	14.0	-88.0
	MCS 7 / 15 / 23	13.0	-72.0
000 44° LIT20 50U-	MCS 0 / 8 / 16	13.0	-92.0
802.11n HT20 5GHz	MCS 7 / 15 / 23	12.0	-73.0
802.11n HT40 5GHz	MCS 0 / 8 / 16	13.0	-88.0





	MCS 7 / 15 / 23	12.0	-72.0
802.11ac VHT20 5GHz	MCS0	15.0	-92.0
	MCS8	14.0	-69.0
802.11ac VHT40 5GHz	MCS0	14.0	-88.0
	MCS9	12.0	-64.0
802.11ac VHT80 5GHz	MCS0	12.0	-86.0
	MCS9	11.0	-62.0

^{*}Maximum transmit power is limited by local regulation.

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

*Transmit power is configurable	is restricted by local regulatory requirements. in 1.0dB increments.			
Max. Antenna Gain	3 x 3dBi 2.4GHz antennas	3 x 3dBi 2.4GHz antennas		
	3 x 5dBi 5GHz antennas			
Radiation pattern	2.4GHz Azimuth-Plane	2.4GHz Elevation-Plane		
	330 345 0 15 30 Ant.1 Ant 2 Ant 3 300 45 Ant.1 Ant 2 Ant 3 45 Ant	330 345 0 15 30 Ant.1 Ant.2 Ant.3 300 75 90 105 120 135 150 150 150 150 150 150 150 150 150 15		
	5GHz Azimuth-Plane	5GHz Elevation-Plane		
	330 345 0 15 30 Ant.4 Ant.5 Ant.6 80 80 75 90 105 120 120 125 150 185 150	330 345 0 15 30 Ant.4 Ant.5 Ant.6 60 60 75 90 105 120 120 125 136 150 165 150		
Physical Characteristic				
Power Source	DC Input: 12 VDC 2A			
	PoE: compatible with 802.3at			
Interface	1 x 10/100/1000 BASE-T Ethernet (RJ45) v	vith 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		
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	
x EAP900H	
x Power Adapter	
x CD with User's Manual	
x QIG	
x Ethernet cable	
x T-Rail Mounting Kit	
x Ceiling/Wall Mount screw kit	
x Mounting Bracket	