EAP900H

Wireless 11N Dual Band Dual Concurrent AP /WDS/Repeater

- 2.4GHz/5GH
- 900Mbps
- 802.11a/b/g/n

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**.**

Each radio of EAP900H 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.

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.

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FEATURES	
HARDWARE FEATURES	
Dual Radio Concurrent	One radio supports 802.11a/n, and another supports 802.11b/g/n
High output power	Transmit high output power programmable for different country selections
High Data Rate	High speed transmitting rate up to 900Mbps with 2 radios, 3T3R 802.11n
Multi-Function	Access point, WDS AP, WDS Bridge and Repeater
Long range transmitting	Transmit power control and distance control (ACK timeout)
SOFTWARE	
Multiple SSID	8 SSID supported. Each SSID can set itself wireless or WAN access settings
Band Steering	Offloading 2.4Gz clients to 5GHz band so as to prevent congestion and traffic overload
Fast Roaming	Enable fast association when client moves from one AP to another through WPA2/PSK authentication
Guest Network	Allocating WiFi services to guest within the local network
VLAN Pass-through	Support VLAN Pass-through
Firmware Upgrade	Upgrading firmware via web browser, setting are reserved after upgrade
Reset & Backup	Reset to factory default. User can export all setting into a file via WEB
Ping & Trace Route	Built-in PING function & Trace Route function in Web GUI
Management tools	Supports Web interface (HTTP/S), SNMP v1/v2c/v3 with MIB I/II,private MIB, CLI (Telnet/SSH)

*Theoretical wireless signal rate based on IEEE standard of 802.11 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

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SPECIFICATIONS

HARDWARE SPECIFICATIONS

MCU	Atheros QCA9558
RF	Atheros QCA9558 (2.4GHz) + QCA9580 (5GHz)
Memory	256MB
Flash	16MB
Physical Interface	1 x 10/100/1000 BASE-T Ethernet (RJ45) with 802.3at PoE 1 x DC power connector 1 x reset button
Power Requirements	Active Ethernet (Power over Ethernet) 802.3at support Power Adapter 12V/2A

RF SPECIFICATIONS

Available transmit power (ERIP)	19dBm
Frequency Band	802.11a/b/g/n
Data rate	450Mbps(2.4GHz) 450Mbps (5GHz)

Radio Frequency Band (The Max. Power may be different depending on local regulations)

Channel	Data Rate	Rx Sensitivity (±2dBm)
802.11b (2.412 ~ 2.472GHz)	1Mbps	-97
	2Mbps	-95
	5.5Mbps	-93
	11Mbps	-92
802.11g (2.412 ~ 2.472GHz)	6Mbps	-94
	9Mbps	-94
	12Mbps	-90
	18Mbps	-85
	24Mbps	-82
	36Mbps	-80
	48Mbps	-77
	54Mbps	-75
802.1n (2.412 ~ 2.472GHz	MCS0 / MCS8	-95
	MCS1 / MCS9	-93
	MCS2 / MCS10	-90
	MCS3 / MCS11	-87
	MCS4 / MCS12	-86 / -84
	MCS5 / MCS13	-83 / -79

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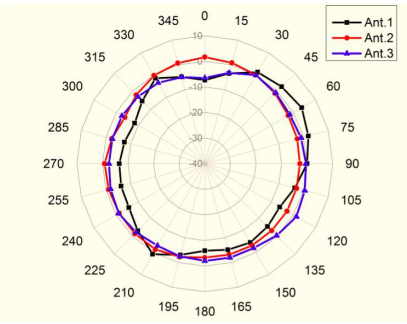
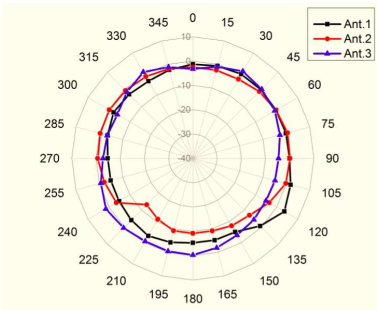
		MCS6 / MCS14	-73
		MCS7 / MCS15	-70
		MCS16/17/18/19	-95/-93/-90/-87
		MCS 20/21	-84 / -79
		MCS 22/23	-73/-70
	802.11a (5.18 ~ 5.825GHz)	6Mbps	-94
		9Mbps	-94
		12Mbps	-90
		18Mbps	-85
		24Mbps	-82
		36Mbps	-80
		48Mbps	-77
		54Mbps	-75
	802.11n(5.18 ~ 5.825GHz)	MCS0 / MCS8	-95
		MCS1 / MCS9	-93
		MCS2 / MCS10	-90
		MCS3 / MCS11	-87
		MCS4 / MCS12	-86 / -84
		MCS5 / MCS13	-83 / -79
		MCS6 / MCS14	-73
		MCS7 / MCS15	-70
		MCS16/17/18/19	-95/-93/-90/-87
		MCS 20 / 21	-84 / -79
		MCS 22 / 23	-73 / -70
Antenna	3 x 3dBi 2.4GHz Internal antenna 3 x 5dBi 5 GHz Internal antenna		
Antenna Radiation Patterns (Internal Antenna)	**2.4GHz Azimuth-Plane**	**2.4GHz Elevation-Plane**	





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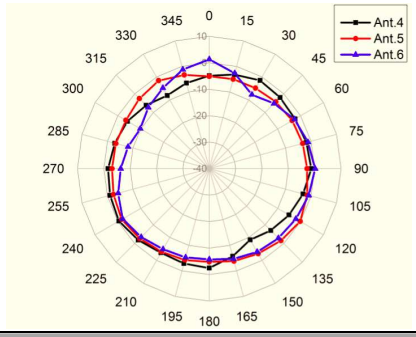
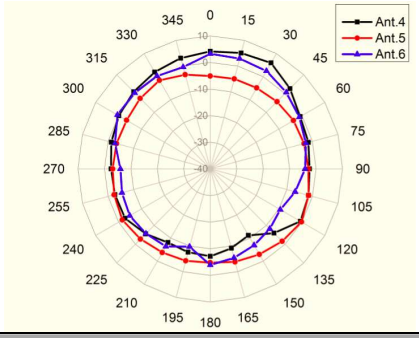
	5GHz Azimuth-Plane	5GHz Azimuth-Plane
		

SOFTWARE SPECIFICATIONS	
Operation Mode	Access Point / WDS AP/ WDS Bridge / Repeater
Wireless/Network	Auto Channel Selection Setting varies by regulatory domains Supports up to 8 SSIDs per frequency band VLAN Tag / VLAN Pass-through Wireless Client List Supports 802.11e/WMM Traffic Shaping Guest Network - Allocates a separate network segment for guest access within the same WLAN Band Steering - Moves 5GHz-compatible clients to 5GHz band to ease traffic congestion on 2.4GHz band Fast Handover
Security	WEP encryption: 64/128/152-bit WPA/WPA2 Enterprise/PSK Hidden SSID MAC address filtering (up to 50 MAC) Station separation
Management	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

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ENVIRONMENT AND MECHANICAL	
Temperature Range	Operating 0℃~40℃ Storage -20℃~60℃
Humidity (non-condensing)	0%～90% typical
Dimension	161.5mm(D) x 41.5mm (H)
Weight	290g

PACKAGE CONTENT
1 x EAP900H
1 x 12V/2A Power Adapter
1 x Ethernet Cable
1 x Quick Installation Guide
1 x T-Rail Mounting kit
1 x Ceiling/Wall Mount Screw kit
1 x Mounting Bracket

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