

# EAP300

Long Range Ceiling Mount Access Point

- 2.4 GHz
- 300Mbps
- 11b/g/n
- AP/WDS/Repeater

## PRODUCT OVERVIEW



**EAP300** equips with an advanced RF interface coupled with 802.11n technologies, offering data transmission rate up to 300Mbps at 2.4GHz band.

For wider and penetrating wireless coverage, the radio of EAP300 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.

EAP300 can be powered by enclosed power adapter or off-the-shelf 802.3af-compliant PoE switches, solving common power sourcing issue in the field where devices are usually placed at drop-ceiling or mounted on walls.

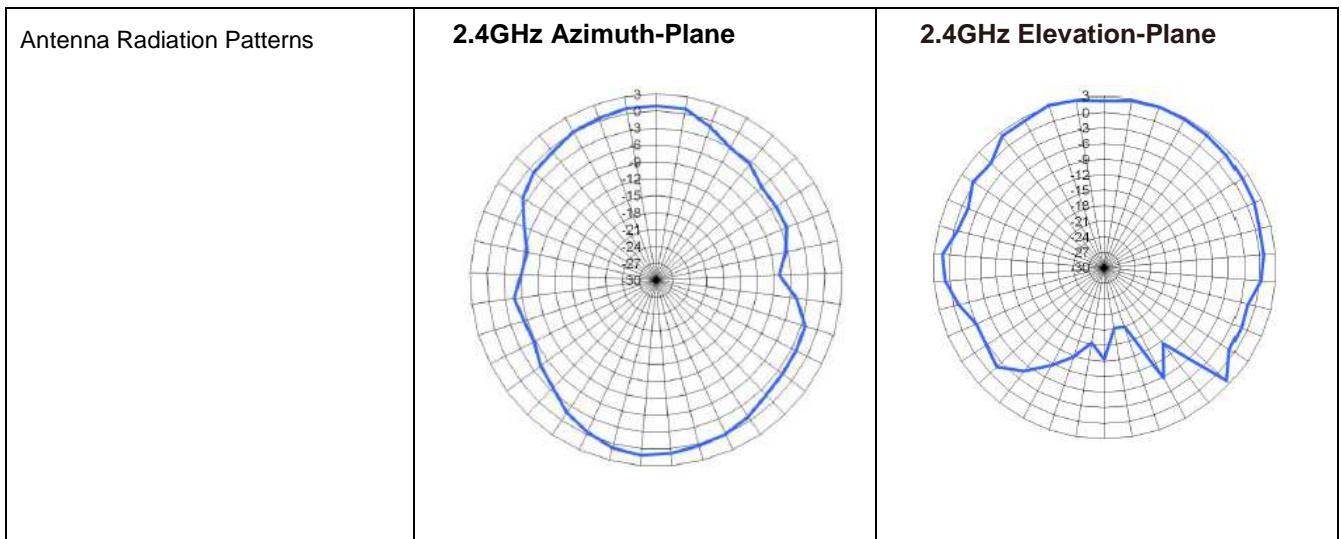
EAP300 can operate in 3 different modes, namely Access Point, WDS, or Repeater, facilitating different deployment requirements.

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. In addition to its full sets of enterprise AP features, EAP300's low-profile housing design coupled with internal antennas and PoE features will let it easily blend into any installation environment.

SOFTWARE FEATURES		
<b>SYSTEM REQUIREMENTS</b>		
System	Windows Windows7, 98, ME, NT, XP, 2000. Mac OS X (10.4)	
Access method	Web Based (HTTP 1.0 / 1.1)	
Browser Compatibility	Microsoft IE 6.0 or above, Firefox 2.0 or above	
<b>STATUS</b>		
System Status	System Information	System Up Time, Device Name, Wireless MAC, LAN MAC, Country, Current Time, Firmware Version
	Current IP Setting	IP Address, Subnet Mask, Default Gateway, DHCP, DNS.
	Current Wireless Setting	Operation mode, Wireless Mode, Channel/Frequency, L2 Isolation, MSSID Setting
Client List	List current associated clients. Show only authorized and associated clients	
System Log	Displays a list of events triggered	
<b>WIRELESS FUNCTIONAL LIST</b>		
Operation mode	AP	
	WDS	
	Repeater	
	WDS AP algorithm	
	WDS bridge algorithm	
802.11 mode options	b/g/n	
Channel setting	Manual	
	Auto / Best Channel Selection	
Transfer rate setting	Auto and Manual	
Power Saving	Wireless LAN power saving	
Multiple BSSID (Multi AP)	8 BSSID for 2.4Ghz	
	Each BSSID should has its own WiFi & security settings	
WPS	Software only	

Security	WEP	WEP(64/128bit)	
	WPA/ WPA2	TKIP / AES	
	MAC address filtering	MAC address filtering (WLAN, up to 32 field)	
	802.1x Authenticator	MD5/ TLS/ TTLS, PEAP	
	802.1x Supplicant	TTLS, PEAP	
LAN Settings		IP (check validity and DHCP server IP range) MAC IPv6 ready	
VLAN	MSSID	8 VLAN tag on MSSID	
	Management VLAN Ethernet Port VID	Only allow user with specified VID to access the device	
Telnet Server		CLI	
Backup/ Restore Setting		Save Current Setting Restore Saved Setting Reset to Factory Default	
Firmware Upgrade		Firmware Upgrade Allow User to decide to Keep current setting or reset to default.	
QoS		WMM	
Advanced Management		Scheduling Reboot	
		CLI	
		Client Limit	
		NMS (EZ Controller)	
		Support SNMP V1, V2 and V3	
Multicast		Supported	
<b>TECHNICAL SPECIFICATIONS</b>			
<b>HARDWARE SPECIFICATIONS</b>			
Diameter * Height		120mm x 50mm	
Physical Interface		LAN: 1 x 10/100 Fast Ethernet RJ-45 (802.3af PoE standard supported)	
		Reset button	
		Power Jack	
LED Definition		Power x1	Green
		Booting: Blink at 1H System Ready: On Firmware Upgrade: Blink at 4Hz	

			System Off: Power Off	
	WLAN x1	Green	Link: Solid Light / Active: Blinking (Receiving/ Transmitting data)	
	LAN x1	Green	Link: Solid Light / Active: Blinking (Receiving/ Transmitting data)	
Adapter	12V / 1A			
<b>WIRELESS SPECIFICATIONS</b>				
Frequency Band	2.400~2.484 GHz(11b, 11g, 11n)			
Modulation Technology	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DBPSK, DQPSK, CCK			
Operating Channels	11 for North America, 14 for Japan, 13 for Europe			
Wireless Setting	Operation Mode – AP / WDS / Repeater Wireless Mode – 11b/ 11g /11n Channel Selection (Setting varies by Country) Channel Bandwidth (Auto, 20Mhz, 40Mhz) Transmission Rate - 11n only ,11b/g/n mix ,11b only ,11b/g			
RF Performance Table				
	<b>Channel</b>	<b>Data Rate</b>	<b>Transmit Power (Combined, dBm)</b>	<b>Receive Sensitivity (Combined, dBm)</b>
	802.11b 2.4 GHz	1 Mbps	15.0	-93.0
		11 Mbps	14.0	-90.0
	802.11g 2.4 GHz	6 Mbps	14.0	-89.0
		54 Mbps	13.0	-71.0
	802.11n HT20 2.4 GHz	MCS 0 / 8	14.0	-87.0
		MCS 7 / 15	13.0	-69.0
	802.11n HT40 2.4 GHz	MCS 0 / 8	14.0	-87.0
		MCS 7 / 15	13.0	-69.0
	<i>*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.</i>			
Antenna	Internal 5dBi MIMO ANT.			



ENVIRONMENT AND MECHANICAL	
Temperature Range	0 to 50°C - Operating, -20 to 60 °C - Storage
Humidity (non-condensing)	90% or less – Operating, 90% or less - Storage

CERTIFICATION	
Certification	FCC, CE and IC

PACKAGE CONTENT	
▶ EAP300	
▶ Power Adapter (12V/1A)	
▶ CD with User's Manual	
▶ QIG	
▶ Ethernet cable	