

# EAP300

Long Range Ceiling Mount Access Point



## Key Features

- IEEE 802.11 b/g/n compliant
- Up to 300Mbps (2.4GHz) wireless data transmission rate
- Fast Ethernet port with IEEE 802.3 af standard PoE support
- Ceiling mount housing and internal antennas for low-profile design
- Web-based and EZ controller software for easy configuration
- AP/WDS/Repeater mode support
- SNMP V1/ V2c/V3, MIB I/II supported
- WEP/WPA/WPA2 wireless encryption
- IPv4/IPv6 supported

## EnGenius Long Range Ceiling Mount Access Point

### **Enterprise class 2 x 2 802.11n single-radio brings 300Mbps connection speed on your WLAN for diversity of applications**

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

### **Enhanced Signal Strength and Receive Sensitivity to Further Extend WLAN Coverage**

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.

### 802.3af-compliant Power-over-Ethernet (PoE) for Second Power Sourcing Alternative

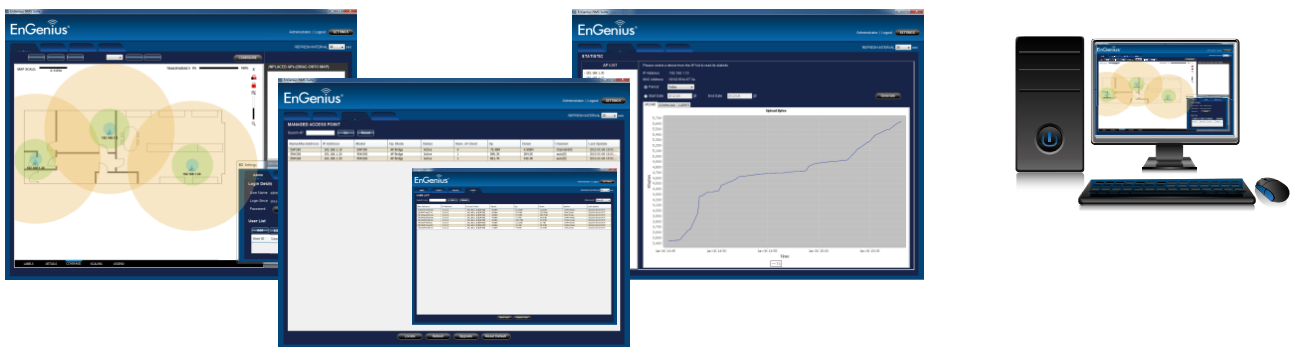
EAP300 can be powered by enclosed power adapter or off-the-shelf 802.3af-compliant PoE switches, solving common power sourcing issue in the field where devices are usually placed at drop-ceiling or mounted on walls.

### Multiple Operation Modes for Versatile Applications

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

### Configuration and Management with Ease

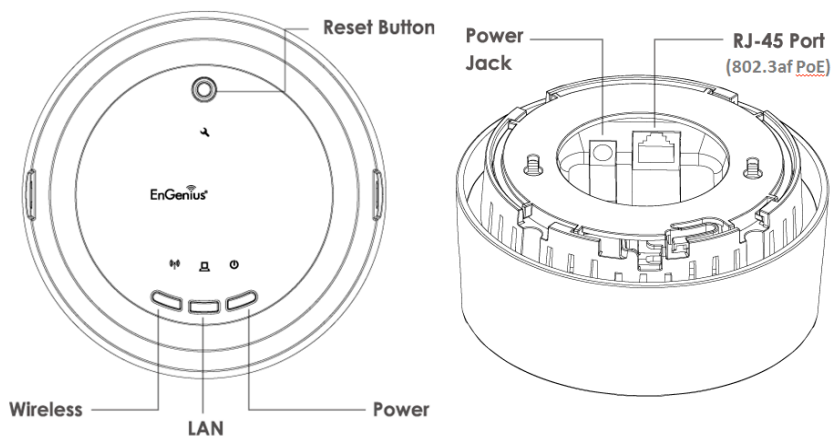
Besides intuitive web-based management, EnGenius EZ Controller software utility provides user extra convenience on applying various configuration settings into devices, enabling prompt WLAN deployment and configuration update.



### Environmentally Friendly Housing Design to Blend into Any Installation Sites

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.

### Physical Interface



## SPECIFICATIONS

### Radio Specification

Single Radio	2.4GHz: 802.11b/g/n with max data rate up to 300Mbps
Transmit Power (combined)	2.4GHz : max 15dBm Maximum transmit power is limited by regulatory power
Radio Chains/Spatial Streams	2x2 / 2
Supported Radio Technology	802.11b: direct-sequence spread-spectrum (DSSS) 802.11g/n: orthogonal frequency-division multiplexing (OFDM)
Channelization	802.11n with 20/40 MHz channel width 802.11b/g with 20 MHz channel width
Supported Modulation	802.11b: BPSK, QPSK, CCK 802.11g/n: BPSK, QPSK, 16-QAM, 64-QAM
Supported Data Rates (Mbps)	802.11b: 1, 2, 5.5, 11 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 802.11n: 6.5 to 300 (MCS0 to MCS15)

### Physical Characteristic

Power Source	DC Input: 12 VDC 1A PoE: compatible with 802.3af
Internal High Gain Antennas	2 x 5dBi 2.4GHz antennas 1 x 10/100 BASE-T Ethernet (RJ45) with 802.3af PoE
Interface	1 x DC power connector 1 x reset button
Dimensions/Weight	125.63 x 63.58mm (Diameter x Height) 224g
Environment	Operating temperature: 0°C~50°C Operating humidity: 0%~90% typical Storage temperature: -20°C~60°C
Mounting	Ceiling mount or wall mount

### Wireless

Operating Mode	AP/WDS/Repeater
Auto Channel Selection	Setting Varies by regulatory domains

SSIDs	Supports up to 8 SSIDs
VLAN Tag/VLAN pass-through	
Wireless Client List	
QoS	Supports 802.113/WMM
Security	WEP encryption: 64/128-bit
	WPA/WPA2 Enterprise/PSK
	Hidden SSID
	MAC address filtering (up to 32 MAC)
	Station separation
<b>Management</b>	
Configuration	Web interface (HTTP)
	SNMP v1/v2c/v3 with MIB I/II and private MIB
	CLI (Telnet)
Firmware Upgrade	Web interface or CLI (FTP/HTTP)
Backup/Restore Settings	Revert to factory default settings
Syslog Notification	Provides a network monitoring tool for administrators to stay informed upon configuration change or network errors

RF Performance Table			
Channel	Data Rate	Transmit Power (Aggregated, dBm)	Received Sensitivity (Aggregated, dBm)
802.11b 2.4 GHz	1 Mbps	15.0	-93.0
	11 Mbps	15.0	-90.0
802.11g 2.4 GHz	6 Mbps	15.0	-89.0
	54 Mbps	14.0	-71.0
802.11n HT20 2.4 GHz	MCS 0 / 8	13.0	-87.0
	MCS 7 / 15	13.0	-69.0
802.11n HT40 2.4 GHz	MCS 0 / 8	13.0	-87.0
	MCS 7 / 15	13.0	-69.0

\*Maximum transmit power is limited by local regulatory.

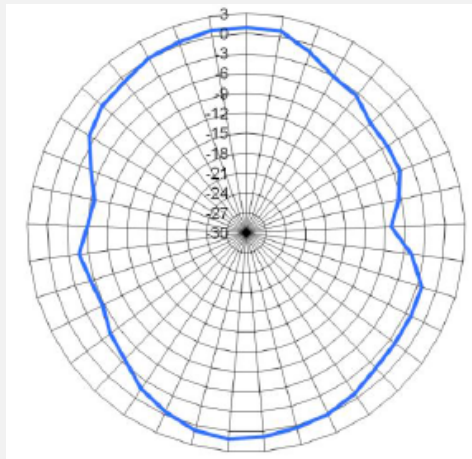
\*The supported frequency band is restricted by local regulatory requirements.

\*Transmit power is configured in 1.0dBm increments.

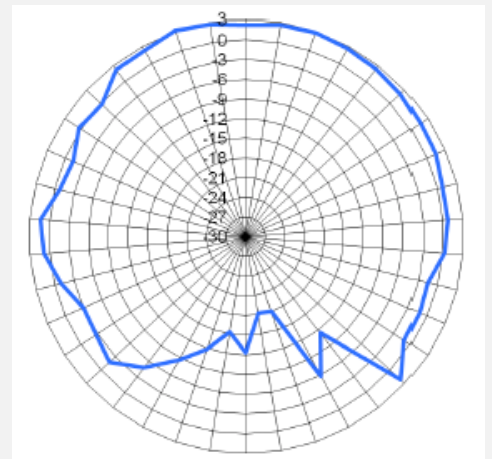
### Antenna Radiation Patterns (Internal Antenna)

Diagram Pattern

**2.4GHz Azimuth - Plane**



**2.4GHz Elevation-Plane**



*EAP300 Data sheet Version 201014*

Maximum data rates are based on IEEE 802.11 standards. Actual throughput and range can vary depending on many factors including environmental conditions, distance between devices, radio interference in the operating environment, and mix of devices in the network. Features and specifications subject to change without notice. Trademarks and registered trademarks are the property of their respective owners. Copyright © 2014 EnGenius. All rights reserved.

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