



## 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

## Long Range Ceiling Mount Access Point

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### **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

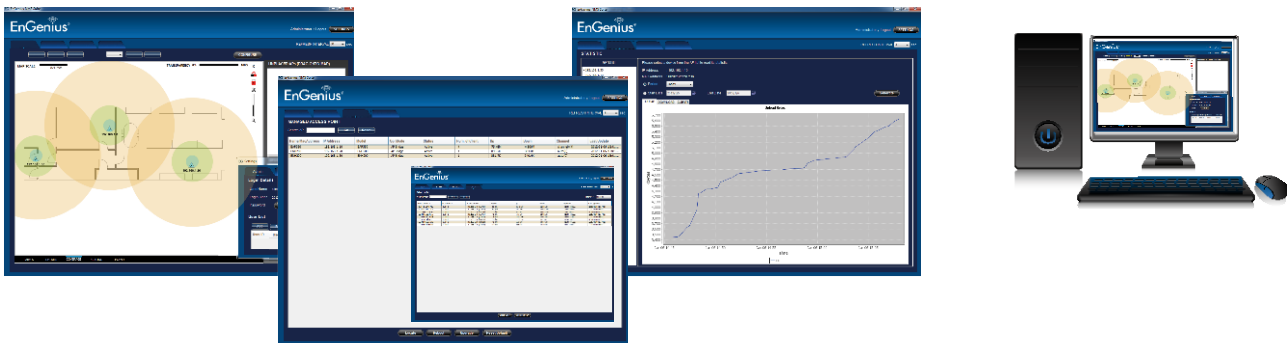
EAP300 can be powered by enclosed power adapter or off-the-shelf 802.3af-compliant PoE switches, solving common power sourcing issue in the field where devices are usually placed at drop-ceiling or mounted on walls.

## 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

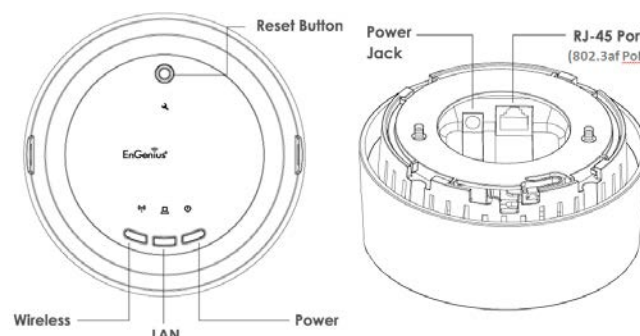
Besides intuitive web-based management, EnGenius EZ Controller software utility provides user extra convenience on applying various configuration settings into devices, enabling prompt WLAN deployment and configuration update.



## 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



## Technical Specifications

### Radio Specification

- Single Radio
  - 2.4GHz: 802.11b/g/n with max data rate up to 300Mbps
- Transmit Power (combined):
  - 2.4GHz: max 29dBm
  - Maximum transmit power is limited by regulatory power
- Radio Chains / Spatial Streams
  - 2 x 2 / 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 Characteristics

- Power Source:
  - DC Input: 12 VDC 1A
  - PoE: compatible with 802.3af
- Internal High Gain Antennas
  - 2 x 5dBi 2.4GHz antennas
- Interface
  - 1 x 10/100 BASE-T Ethernet (RJ45) with 802.3af PoE
  - 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 pass-through
- VLAN Tag
- Wireless Client List
- QoS
  - Supports 802.11e/WMM
- Security
  - WEP encryption: 64/128-bit
  - WPA/WPA2 Enterprise/PSK
  - Hidden SSID
  - MAC address filtering (up to 32 MAC)
  - Station separation

### Management

- 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 (Combined, dBm)	Receive Sensitivity (Combined, dBm)
802.11b 2.4 GHz	1 Mbps	29.0	-93.0
	11 Mbps	29.0	-90.0
802.11g 2.4 GHz	6 Mbps	28.0	-89.0
	54 Mbps	25.0	-71.0
802.11n HT20 2.4 GHz	MCS 0 / 8	27.0	-87.0
	MCS 7 / 15	24.0	-69.0
802.11n HT40 2.4 GHz	MCS 0 / 8	27.0	-87.0
	MCS 7 / 15	24.0	-69.0

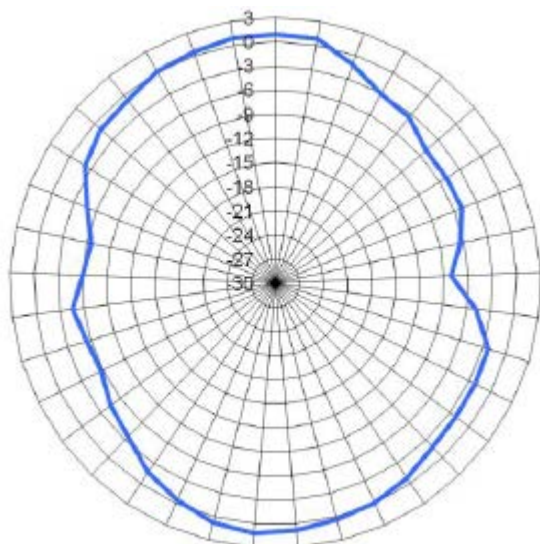
\*Maximum transmit power is limited by local regulation.

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

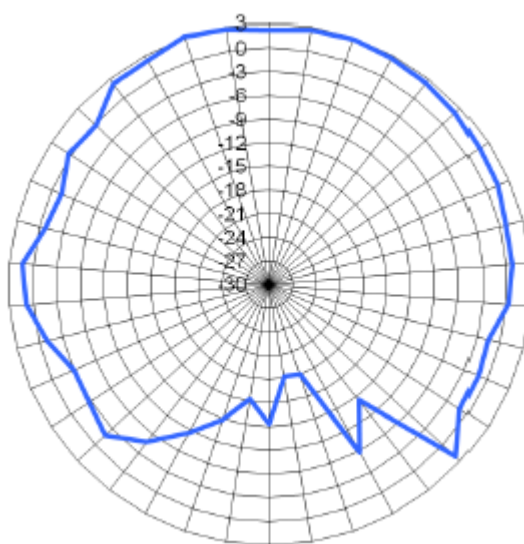
\*Transmit power is configurable in 1.0dB increments.

## Antenna Radiation Patterns (Internal Antenna)

### 2.4GHz Azimuth-Plane



### 2.4GHz Elevation-Plane



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 are subject to change without notice. Trademarks and registered trademarks are the property of their respective owners.  
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