EnGenius®

EAP350 Datasheet

Key Features

- IEEE 802.11 a/b/g/n compliant
- Up to 300Mbps Data rate
- Gigabit Ethernet Port with with IEEE 802.3 af PoE Input
- AP/WDS/Repeater Modes
- Configure via web GUI or EZ controller
- Multiple SSIDs (8 SSIDs) + VLAN tagged
- SNMP V1/ V2c/V3, MIB I/II supported
- WEP/WPA/WPA2 wireless encryption
- Traffic Shaping
- Support IPv4/IPv6
- Ceiling casing and Internal Antennas design

N300 2.4GHz Indoor Ceiling Mount Access Point

Enterprise class 2 x 2 802.11n single-radio brings 300Mbps connection speed on your WLAN for diversity of applications. EAP350 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

EAP350 is build the higher strength and sensitivity; the specification will assist to reduce dead in your deployed WLAN and boost received signal quality on both ends of AP and wireless client devices. EAP350 offers multiple SSIDs (up to 8 sets) and each SSID can configure its bandwidth and WLAN security settings, enabling various applications running over WLAN with different levels of security strength and bandwidth limit. EAP350 also provides the advanced features including the traffic shaping for achieving the optimize connection and stable wireless throughput.

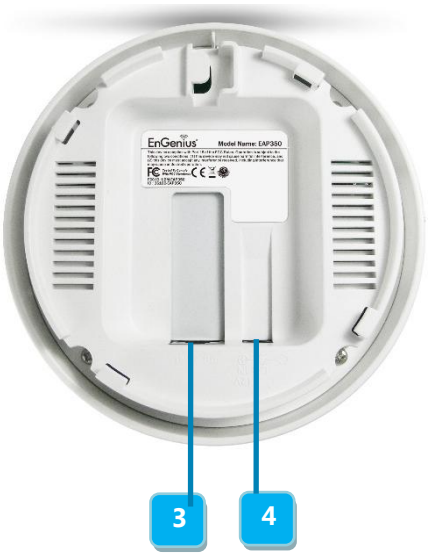
Efficient Configuration and Real-time Management

EAP350 can be configured by web configuration or EnGenius Zone Controller (EZ controller) software. With full-featured software built-in, the device allows administrator to control, manage, and optimize the network effectively from a central location which can decrease the maintenance cost greatly. EAP350 can operate into different modes with **Access Point** and **WDS Modes**. With powerful solution and individual interfaces, EAP350 can connect with the multiple devices and extend the wireless signal easily.

802.3af compliant PoE for Alternative Power Sourcing

EAP350 can be powered by the enclosed adapter, off-the-shelf 802.3af-compliant PoE switches, as well as proprietary 48V PoE input for solving the common power sourcing issue and extend the distance for signal transmission.

Physical Interface



Top Side		Bottom Side	
1	LED Signal	3	Gigabit Ethernet Port
2	Reset Button	4	DC Jack (12V/1A Input)

Technical Specifications

Wireless Radio Specification

- Single Radio
  - 2.4GHz: 802.11b/g/n with max data rate up to 300Mbps
- Transmit Power (maximum Value):
  - 2.4GHz: 29dBm
  - Maximum transmit power is limited by regulatory power
- 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 10/100/1000 BASE-T Ethernet (RJ45)
  - 1 x DC power connector
  - 1 x reset button
- Dimensions / Weight
  - 125.63 x 63.58mm (Diameter x Height)
  - 226g
- 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 Modes
  - 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 802.11e/WMM
- Band Steering
  - Moves 5GHz-compatible clients to 5GHz band to ease traffic congestion on 2.4GHz band
- Mobility
  - PMKSA support for fast roaming
- 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)
  - 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 Specification (Aggregated Value)

Channel	Data Rate	Transmit Power (Aggregated, dBm)	Receive Sensitivity (Aggregated, dBm)
802.11b 2.4 GHz	1 Mbps	29.0	-95.0
	2 Mbps	29.0	-93.0
	5.5 Mbps	29.0	-91.0
	11 Mbps	29.0	-89.0
802.11g 2.4 GHz	6 Mbps	28.0	-90.0
	54 Mbps	23.0	-75.0
802.11n HT20 2.4 GHz	MCS 0 / 8 / 16	29.0	-90.0
	MCS 7 / 15 / 23	23.0	-75.0
802.11n HT40 2.4 GHz	MCS 0 / 8 / 16	27.0	-90.0
	MCS 7 / 15 / 23	24.0	-72.0

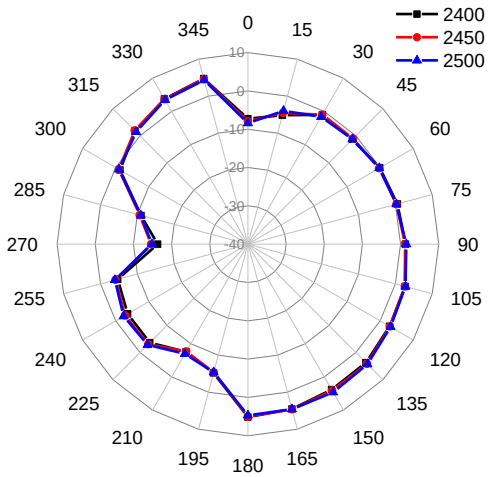
*Maximum performance of the hardware provided. Maximum transmit power is limited by local regulatory.
*The supported frequency band is restricted by local regulatory requirements.
*Transmit power is configured in 1.0dBm increments.

Antenna Specificaitons (External Antenna)

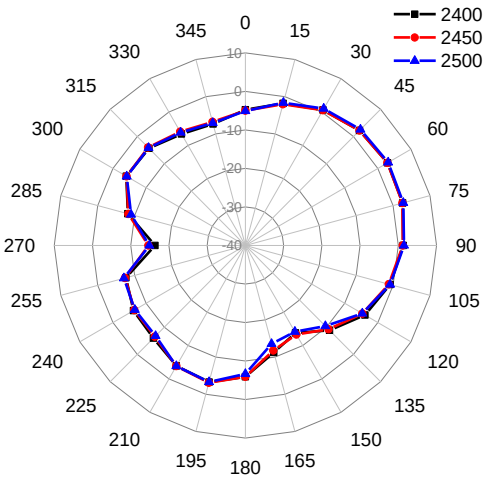
External Antenna	2.4GHz	5GHz
Average Antenna Gain	5.0dBi	-
Polariztion	Linear	-
Azimuth Beam-Width	360°	-
Elevation Beam-Width	28°	-
VSWR	1:2.0	-
Dimension	40(L)x8(W)x0.6(H) mm	

Diagram Pattern

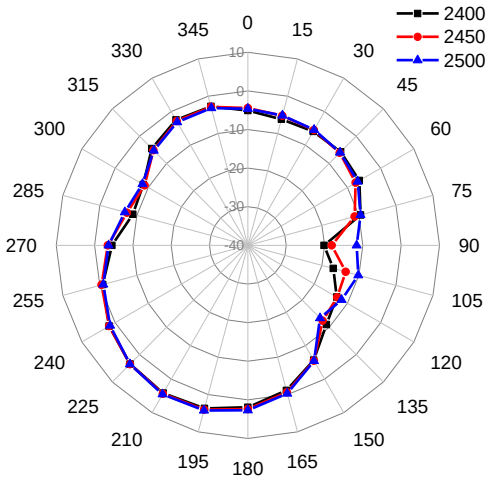
Port1-H Plane



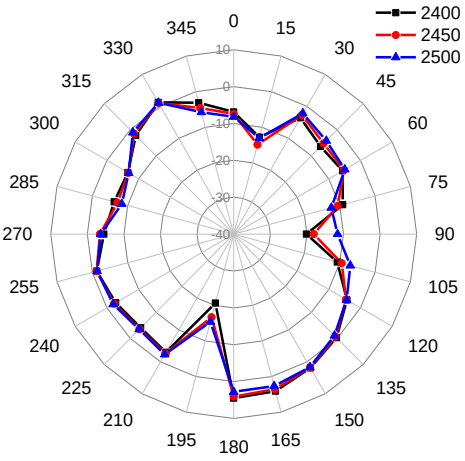
Port1-E Plane



Port2-H Plane



Port2-E Plane



EZ CONTROLLER

Network Management System - EnGenius Zone Controller

In enhancing the real-time functionality of a network, applying the best network management software tool is necessary. Built-in Network Management System, EZ Controller (EnGenius Zone Controller), provides an intelligent tool for IT manager, installer, and network administrators to configure control, and manage all wireless devices within network from one central location. This application ensures the entire network will optimally operate without troubles, glitches and interruptions.

The growing demand of performance related results from service providers or someone involved in an enterprise, you need to provide a huge platform to make it successful. The robust design of EZ Controller can manage different devices simultaneously and precisely, as well as configure the advanced service for wireless clients.

Configure, control and manage EnGenius Enterprise Wireless Devices from one central

Features:

- Easy-to-use User Interface
- Optimize network performance
- Eliminate downtime
- Check real-time wireless coverage
- Monitor and control each sheet
- Monitor traffic loads by AP, MAC or IP address
- Sequential firmware upgrades to deployed APs / Bridges
- Import and archive floorplan maps for radio coverage plotting
- Labels assets by MAC and IP address or user-defined aliases
- Export real-time AP statistics report

An intelligent solution for different business environment

Villa

Campus

Office

Plaza