



Key Features

- IEEE 802.11 a/b/g/n compliant
- Up to 300Mbps Data rate
- Gigabit Ethernet Port with IEEE 802.3 af PoE Input
- AP/AR/CB/CR/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
- Client Limit
- Support IPv4/IPv6

N300 2.4GHz Indoor Access Point / Client Bridge

Enterprise class 2 x 2 802.11n single-radio brings 300Mbps connection speed on your WLAN for diversity of applications. ECB350 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

ECB350 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. ECB350 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. ECB350 also provides the advanced features including the traffic shaping and client limit for achieving the optimize connection and stable wireless throughput.

Efficient Configuration and Real-time Management

ECB350 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. ECB350 can operate into different modes with **Access Point, Access Point Router, Client Router, Client Bridge, WDS Modes and Repeater.**

With powerful solution and individual interfaces, ECB350 can connect with the multiple devices and extend the wireless signal easily.

802.3af compliant PoE for Alternative Power Sourcing

ECB350 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



Front Side		Back Side	
1	External 5dBi Omni Antennas	3	SMA Connector (Connect to Antennas)
2	LED Signal	4	Gigabit Ethernet Port
		5	Reset Button
		6	DC Jack (DC12V/1A Input)

Technical Specifications

Wireless Radio Specification

- 2.4GHz 802.11b/g/n
 - Max 300Mbps data rate
- Transmit Power (Maximum Value)
 - 2.4GHz: Max 29dBm
 - Maximum power is limited by regulatory power
- Supported radio technologies:
 - 802.11b: Direct-sequence spread-spectrum(DSSS)
 - 802.11g/n: Orthogonal frequency-division multiplexing (OFDM)
 - 802.11n: 2x2 MIMO with 2 streams
 - 802.11n with 20/40 MHz channel width
 - 802.11b/g with 20 MHz channel width
- Supported modulation types:
 - 802.11b: BPSK, QPSK, CCK
 - 802.11n: BPSK, QPSK, 16-QAM, 64-QAM
- Supported data rates (Mbps):
 - 802.11b: 1, 2, 5.5, 11
 - 802.11g: 6, 9, 12, 18, 36, 48, 54
 - 802.11n: 6.5 to 450 (MCS0 to MCS23)

Power

- Power Source:
 - DC Input: 12 VDC /1A
 - PoE: compatible with 802.3af
 - Active Ethernet (Power over Ethernet, PoE)

Antennas

- Two detachable high gain antennas:
 - 5dBi 2.4GHz antennas
- Omni-Directional type:
 - Provide the optimal coverage
- Compliant with SMA type connector

Interface

- One 10/100/1000 BASE-T Ethernet Port:
 - Supports 802.3af PoE input
- One DC Jack (12V/1A Input)
- Reset button on the device

Mechanical & Environment

- Dimensions / Weight:
 - 135mm (L) x 105mm (W) x 30mm (H)
 - 182g (Unit, without mounting kit and antennas)
- Operating:
 - Temperature: 0°C~50°C
 - Humidity: 0%~90% typical
- Storage:
 - Temperature: -20°C~60°C

Operation Mode

- Access Point / Access Point Router / Client Router / WDS / Client Bridge / Bridge:
 - A variety of operation modes to serve multiple constituencies and applications.

Easy to Management

- Auto Channel Selection
 - Setting varies by Regulatory Domains
- SSIDs:
 - BSSID support
 - Multiple SSIDs support
 - Support 8 SSIDs
- VLAN Pass-through:
 - VLAN pass through over WDS bridge
- SNMP &MIB:
 - v1/v2c/v3 support
 - MIB I/II, Private MIB
- Save Configuration as Default:
 - Saves the customized configuration as default value for different customer demands.
- Clients Traffic Status:
 - Reports the various main information timely which is required by administrator
- QoS:
 - Complaint with IEEE 802.11e standard
- RADIUS Accounting:
 - Help operators to offload 3G to the wi-fi seamlessly

Effective Control and Use

- CLI Comments Support:
 - Setting varies by Regulatory Domains
- Distance Control (Ack Timeout)
- Multicast Supported
- Wi-fi Scheduler
 - Set the schedule for rebooting the device

Reinforcement Security

- WEP Encryption-64/128/152 bit
- WPA/WPA2 Enterprise (WPA-EAP using TKIP or AES)
- Hide SSID in beacons
- MAC address filtering:
 - Filter up to 50 MACs
- Wireless STA (Client) connection list:

Reports the various main information timely which is required by administrator

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.

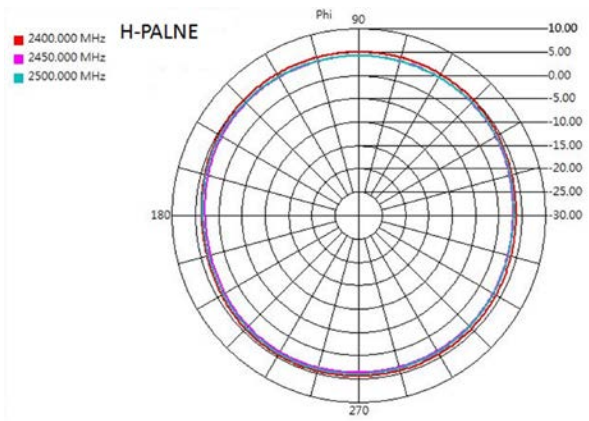
*The Max. Power may be different depending on local regulations

Antenna Specifications (External Antenna)

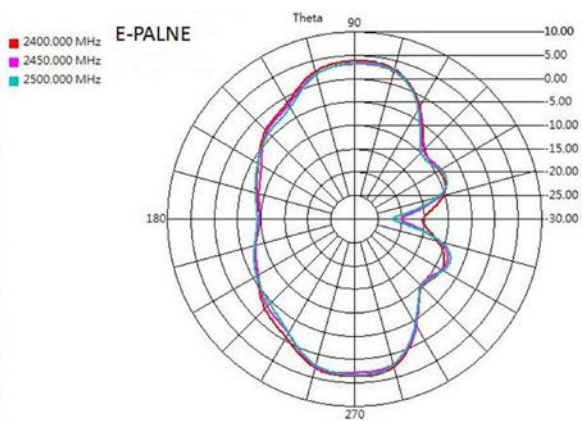
External Antenna	2.4GHz	5GHz
Average Antenna Gain	5.0dBi	-
Polariztion	Vertical	-
Azimuth Beam-Width	360°	-
Elevation Beam-Width	30°	-
VSWR	1:2.0	-
Dimension	13(Φ)x200(L) mm	-

Radiation Diagram

2.4GHz Azimuth -Plane



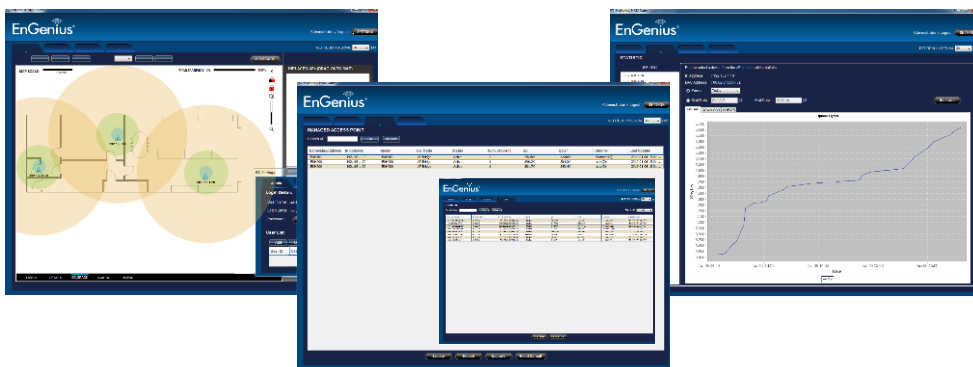
2.4GHz Elevation -Plane



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 location.

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

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