

ENS202

802.11a/b/g/n Long Range Wireless Outdoor CB/AP



Key Features

- ·IEEE 802.11 b/g/n compliant
- ·Up to 300Mbps (2.4GHz)
- ·24V Proprietary PoE support
- ·AP/CB/CR/WDS/Repeater Modes
- ·Multi-SSIDs with VLAN tagged
- ·VLAN tag pass-through via the WDS BR mode
- ·Web Configuration and EZ controller software
- ·SNMP V1/ V2c/V3, MIB I/II supported
- ·WEP/WPA/WPA2 wireless encryption
- ·IPv4/IPv6 support
- ·Effective and flexible bandwidth management

EnGenius Outdoor Access Points, High Sensitivity and Strong Reliability Solutions under Harsh Environment

ENS202 engineered with the powerful independent RF interface that offers bandwidth up to 300Mbps on 2.4GHz band for accommodating heavy traffic services. The high-efficient 8dBi directional with polarization antenna provides an optimal, extended real outdoor throughput performance via point to point transmission in long range distances.

Multiple Operation Modes

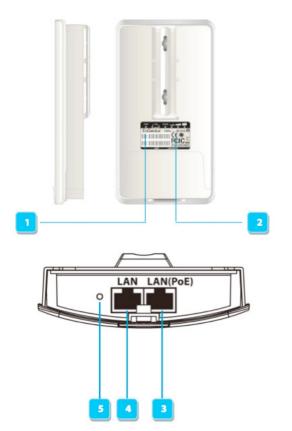
Besides the current operating modes on the **Access Point**, **Client Bridge**, **Client Router** and **WDS Modes**, EnGenius configured the repeater mode and the AP function under the CR mode for achieving the coverage, reducing the maintenance fee and flexible application for the customers' need.

Effective Management

ENS202 integrated with Network Management Software "EZ controller" can offer variety uses in constructing scalable wireless network of all possible application and also allow centralized management via user-interface. ENS202 provides wide-range of authentication and encryption standards (including WEP, WPA, WPA2, TKIP/AES and IEEE 802.1X) to enforce the maximum security. Along with Proprietary PoE support excellent long-range network installation when used in conjunction with its outdoor family – ENH220EXT, ENH710EXT and ENH900EXT.







indicator		
1	Power Indicator	
2	Signal Indicator	
Physical Interface		
3	Fast Ethernet Port with PoE Input (Main Port)	
4	Fast Ethernet Port	
5	Reset Button	

SPECIFICATIONS		
Wireless Radio Specification		
2.4GHz 802.11b/g/n	Max 300Mbps	
Transmit Power	2.4GHz: Max 15dBm	
(Maximum Value)	Maximum power is limited by regulatory power	
	802.11b: Direct-sequence spread-spectrum (DSSS)	
Supported Padio Tachnology	802.11n: Orthogonal frequency-division multiplexing (OFDM)	
Supported Radio Technology	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 300 (MCS0 to MCS15)	
Power		
Power Source	24V propietary compliant source	

Active Ethernet (Power over Ethernet, PoE)

Maximum 7.2W

Power Consumption



Datasheet ENS202

Antennas		
Internal high gain antennas	8dBi 2.4GHz antenna	
Directional Type	Point to point transmission in the long range distance	
Interface		
Two 10/100 BASE-T Ethernet Ports	One port supports 24V proprietary PoE input	
	One port supports the extension of internet signal	
	One reset button	
Mechanical & Environment		
Dimensions/Weight	186mm (L) x 100mm (W) x 29mm (H)	
	300g (unit without mounting kit and antennas)	
Operating	Temperature: -20°C~70°C	
.,	Humidity: 0%~90% typical	
Storage	Temperature -30°C~80°C	
Harsh Environment Use	IP55 rated	
Operation Mode		
Access Point / Client Bridge /	A variety of operation modes to serve multiple constituencies and applications.	
Client Router/Router/WDS	Enable the AP function under the CR mode for flexible application	
Easy to Management		
Auto Channel Selection	Setting varies by regulatory domain	
	BSSID support	
SSIDs	4 SSIDs support	
VLAN Tag	Independent VLAN setting can be enable or disable	
	Any packet that enters the Device without a VLAN tag will have a VLAN tag inserted with a PVID (Ethernet Port VID)	
VLAN Pass-through	VLAN pass through over WDS bridge	
SNMP &MIB	v1/v2c/v3 support	
	MIB I/II, Private MIB	
	Reports the various main information timely which is required by administrator QoS	
Clients Traffic Status	Complaint on IEEE802.11e standards	
RADIUS Accounting	Assist 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)	Received Sensitivity (Aggregated, dBm)
802.11b 2.4 GHz	1 Mbps	15.0	-95.0
	2 Mbps	14.0	-95.0
	5.5 Mbps	14.0	-93.0
	11 Mbps	14.0	-93.0
802.11g 2.4 GHz	6 Mbps	14.0	-95.0
	54 Mbps	13.0	-75.0
802.11n HT20 2.4 GHz	MCS 0 / 8 / 16	15.0	-95.0
	MCS 7 / 15 / 23	13.0	-73.0
802.11n HT40 2.4 GHz	MCS 0 / 8 / 16	15.0	-95.0
	MCS 7 / 15 / 23	13.0	-73.0

 $^{{}^*\}text{Maximum performance of the hardware provided.} \\ \text{Maximum transmit power is limited by local regulatory.}$

Antenna Specifications (External Antenna)

External Antenna	2.4GHz (Port1)	2.4GHz (Port2)
Average Antenna Gain	8dBi	8dBi
Polariztion	Linear	Linear

^{*}The supported frequency band is restricted by local regulatory requirements.

^{*}Transmit power is configured in 1.0dBm increments.



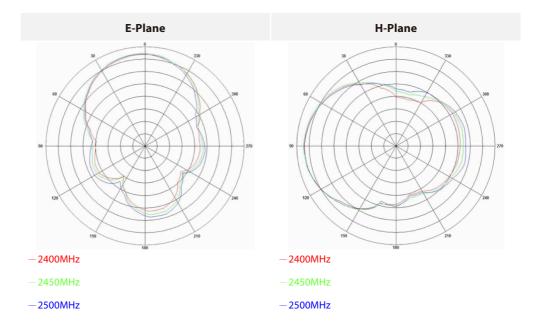
Datasheet **ENS202**

Azimuth Beam-Width	78°	54°
Elevation Beam-Width	45°	59°
VSWR	1:2.0	1:2.0

Dimension 76(L)x72(W)x3.8(H) mm

-2500MHz

Diagram Pattern	E-Plane	H-Plane
	200	50 220 220 220
	— 2400MHz	—2400MHz
	-2450MHz	— 2450MHz
	-2500MHz	-2500MHz







Network Management System - EnGenius Zone Controller

In enhancing the real-time functionality of a network, applying the best network management software tool is necessary. Builtin 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









Office

ENS202 Data sheet Version 231014

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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