

ENH500

802.11a/n Long Range Wireless Outdoor CPE



Key Features

- IEEE 802.11 a/n compliant
- Up to 300Mbps (5GHz)
- 24V Proprietary PoE support
- Waterproof Housing IP65 rated
- AP/CB/CR/WDS Modes
- 4 SSIDs support + VLAN tagged supported
- Web Configuration and EZ controller software
- SNMP V1/ V2c/v3, MIB I/II supported
- WEP/WPA/WPA2 wireless encryption
- Enable to configure IPv4 / IPv6
- PPPoE equipped / PPPoE Pass-through

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

ENH500 engineered with the powerful independent RF interface that offers bandwidth up to 300Mbps on 5GHz band for accommodating heavy traffic services. The high-efficient 10dBi directional with polarization antenna provides an optimal, extended real outdoor throughput performance via point to point transmission in long range distances.

Multiple Operation Modes

ENH500 can operate into four different modes with Access Point, Client Bridge, Client Router and WDS Mode.

Effective Management

ENH500 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. EnGenius has developed the multiple functions for maximum security, monitoring and easily management to ensure the optimal users' experience. ENH500 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 – ENH900EXT.





Physical Interface				
1	Fast Ethernet Port with PoE Input (Main LAN)			
2	Fast Ethernet Port (Secondary)			
3	Reset Button			

SPECIFICATIONS				
Wireless Radio Specification				
5GHz 802.11a/n	Max 300Mbps			
Transmit Power	Max 15dBm			
(Maximum Value)	Maximum power is limited by regulatory power			
0 (15)	802.11a/n: Orthogonal frequency-division multiplexing (OFDM)			
Supported Radio Technology	802.11n with 20/40 MHz channel width			
recimology	802.11a with 20 MHz channel width			
Supported Modulation Types	802.11a/n: BPSK, QPSK, 16-QAM, 64-QAM			
Supported Data Rates	802.11a: 6, 9, 12, 18, 36, 48, 54			
(Mbps)	802.11n: 6.5 to 300 (MCS0 to MCS15)			
Power				
Power Source	24V proprietary compliant source			
	Active Ethernet (Power over Ethernet, PoE)			
Antennas				
Directional high gain	13dBi 5GHz antenna			
antennas	Point to point transmission in the long range distance			
Interface				

Two 10/100 BASE-T

One port supports 24V proprietary PoE input





Ethernet Ports	One port supports the extension of internet signal					
One reset button						
Mechanical & Environment						
Dimonsions/Moight	260mm (L) x 84mm (W) x 55mm (H)					
Dimensions/Weight	380g (unit without mounting ki)					
Operating	Temperature: -20℃~70℃					
Operating	Humidity: 0%∼90% typical					
Storage	Temperature -30℃~80℃					
Harsh Environment Use	IP65 rated					
ESD Protection	15KV (Certificated Standard is 8KV)					
Operation Mode						
Access Point / Client Bridge / Client Router/WDS	A variety of operation modes to serve multiple constituencies and applications					
Easy to Management						
Auto Channel Selection	Setting varies by regulatory domain					
SSIDs	BSSID support					
33105	4 SSIDs support					
	Independent VLAN setting can be enable or disable					
VLAN Tag	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 support					
	MIB I/II, Private MIB					
Save Configuration as Default	Saves the customized configuration as default value for different customer demands					
Client Traffic Status	Reports the various main information timely which is required by administrator					
QoS	Complaint on 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 Time	Distance Control (Ack Timeout)					

Multicast Supported



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)
802.11a 5 GHz	6 Mbps	15.0	-95.0
602.11a 5 GHZ	54 Mbps	13.0	-75.0
802.11n HT20 5GHz	MCS 0 / 8 / 16	15.0	-94.0
802.1111 H120 3GHZ	MCS 7 / 15 / 23	13.0	-73.0
802.11n HT40 5GHz	MCS 0 / 8 / 16	15.0	-93.0
002.111111140 3GHZ	MCS 7 / 15 / 23	13.0	-72.0

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

Antenna Specifications (Internal Antenna)

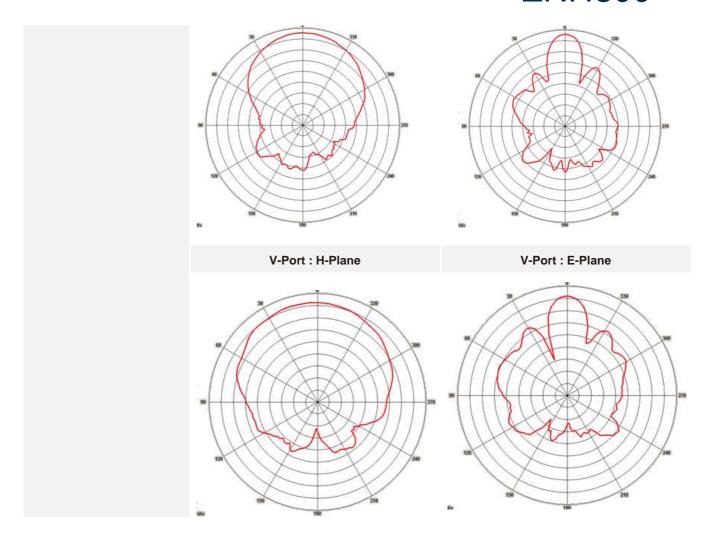
External Antenna	5GHz (H-Port)	5GHz (Port2)
Average Antenna Gain	13dBi	13dBi
Polariztion	Linear	Linear
Azimuth Beam-Width	18°	18°
Elevation Beam-Width	58°	85°
VSWR	1:2.0	1:2.0
Dimension 186(L		V)x4.4(H) mm
Radiation Diagram (TBD)	H-Port : H-Plane	H-Port : E-Plane

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

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



Datasheet ENH500







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
- Sequential firmware upgrades to deployed APs / Bridges
- · Import and archive floor plan maps for radio coverage plotting
- · Labels assets by MAC and IP address or user-defined aliases
- · Export real-time AP statistics report

address

An intelligent solution for different business environment









Villa

ENH500v2 Data sheet Version 241014

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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