EnGenius®

ENH500
LONG RANG WIRELESS 11N OUTDOOR CB/AP

IEEE802.11a/n   2T+2R   300Mbps   25Km   High Performance

Package Contents

- Frequency Band : 5.18 ~ 5.825 GHz
- High Gain 13dBi Internal - Antenna with dual polarization
- CB/AP/CR/WDS Operation Mode
- Extended RJ-45 Port
- IP55 Waterproof Protection
- LED Indicator

ENH500 Wireless Outdoor CPE features 13dBi high gain antenna dual polarization with high output power and high sensitivity can extend the transmission range to deliver a stable wireless connection. ENH500 integrates 4 operation modes: Access Point, Client Bridge, Client Router and WDS.

With integrated 13dBi dual-polarized antenna, it's convenient to build up to 25km long range wireless link while reducing dead spots. Advanced multi-function operation modes offer flexibility in constructing scalable wireless networks for all possible applications. ENH500 is designed to deliver reliable service under harsh outdoor environment with certified IP55 protection and tailored to accommodate multimedia streaming services with data-rate up to 300Mbps. Most importantly, it is built-in encryption standards (WEP, WPA, WPA2, TKIP/AES and IEEE802.1x) ensure maximum security and compatibility.

Features	
Specification	
High output power	Transmit high output power programmable for different country selections
High Data Rate	High speed transmitting rate up to 300Mbps with 2T2R 802.11n
Long range transmitting	Transmit power control and distance control (ACK timeout)
Signal Strength Display	RF signal strength status shown LEDs of 3 colors, making network build-up easier. LED indicators have the best transmit and receive signal for traffic communication
Multiple SSID	4 SSID supported. Each SSID can set itself wireless or WAN access setting

Networking	
PPPoE	Point-to-Point Protocol over Ethernet at Client Router mode. This function will keep trying when failed or disconnected
PPTP	Point-to-Point Tunneling Protocol (PPTP) is a method for implementing virtual private networks

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802.11i & 802.1x	WPA, WPA2 & IEEE802.1x Authenticator

Management	
Firmware Upgrade	Upgrading firmware via web browser, setting are reserved after upgrade
Reset & Backup	Reset to factory default. User can export all setting into a file via WEB
Ping & Trace Route	Built-in PING function & Trace Route function in Web GUI
MIB	MIB I, MIB II(RFC1213), Private MIB
SNMP	V1, V2c

Specifications	
Memory	32MB
Flash	8MB
Standard	IEEE 802.11 a/n
Physical Interface	- 1 x LAN Port with PoE support - 1 x LAN Port - 1 x Reset
Data rate	300 Mbps
LEDs status	- Power Status - LAN1/LAN2 (10/100Mbps) - WLAN (Wireless is up) - 3 x Link Quality (Client Bridge mode)
Security	- WEP Encryption-64/128/152 bit - WPA/WPA2 Personal (WPA-PSK using TKIP or AES) - WPA/WPA2 Enterprise (WPA-EAP using TKIP) - 802.1x Authenticator - Hide SSID in beacons - MAC address filtering, up to 50 field - Wireless STA (Client) connected list
Power Requirements	- Active Ethernet (Power over Ethernet) - Proprietary PoE design - Power Adapter 24VAC / 1A
Antenna	Internal Directional 13dBi with dual polarization
Package Contents	- Wireless Long Range 11N CB/AP(ENH500)

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	- PoE Injector (EPE-24R)			
	- Power Adaptor			
	- CD with User's Manual			
	- QIG			
	- Mounting Set			
	- Special screw set			
Certifications	FCC, CE, IC			
RADIO FREQUENCY BAND (The Max. Power may be different depending on local regulations)		Channel	Tx Avg. Power Optimal (dBm)	Rx Sensitivity Optimal (dBm)
	802.11a (5.18 ~ 5.825GHz)	6Mbps	27	-95
		9Mbps	27	-92
		12Mbps	27	-89
		18Mbps	27	-85
		24Mbps	27	-81
		36Mbps	26	-79
		48Mbps	24	-76
		54Mbps	23	-75
	802.11n(5.18 ~ 5.825GHz)	MCS0 / MCS8	27	-94
		MCS1 / MCS9	27	-92
		MCS2 / MCS10	26	-88
		MCS3 / MCS11	26	-85
		MCS4 / MCS12	25	-80
		MCS5 / MCS13	24	-79
		MCS6 / MCS14	24	-74
		MCS7 / MCS15	23	-73

ENVIRONMENT & MECHANICAL

Temperature Range	Operating -20°C ~ 70°C Storage -30°C ~ 80°C
Humidity (non-condensing)	0%~90 % typical
Waterproof	IP55