EnGenius®

ENH210
LONG RANGE WIRELESS 11N OUTDOOR CB/AP

IEEE802.11b/g/n   2T+2R   300Mbps   High Gain Antenna

ENH210 Wireless Outdoor Enterprise Client Bridge features 14dBi high gain antenna dual polarization with high output power and high sensitivity can extend the transmission range to deliver a stable wireless connection. ENH210 integrates 4 operation modes: Access Point, Client Bridge, Client Router and WDS.

With integrated 14dBi dual-polarized antenna and high output power, 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. ENH210 is designed to deliver reliable service under harsh outdoor environment with certified IP67 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.

Package Contents

- ENH210
- PoE Injector (EPE-48GR)
- Power Adaptor
- CD with User's Manual
- QIG
- Mounting Set
- Special screw set

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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 is shown by 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 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
MAC Filter	Provide MAC address Filter function
Ping & Trace Route	Built-in PING function & Trace Route function in Web GUI
MIB	MIB I, MIB II(RFC1213), Private MIB
SNMP	V1, V2c

Specification

Hardware Specification	
Memory	64MB
Flash	16MB
Physical Interface	1 x Gigabit Ethernet Port with PoE support 1 x Gigabit Ethernet Port
Power Requirements	- Active Ethernet (Power over Ethernet)

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	- 802.3af/at support		
	- Power Adapter 48V / 0.375A		

RF Specification

Frequency Band	**802.11b/g/n**		
Data rate	300 Mbps		

Radio Frequency Band (The Max. Power may be different depending on local regulations)	Channel	Data Rate	Tx Avg. Power (±2dBm)	Rx Sensitivity (±2dBm)
	802.11b(2.412 ~ 2.472GHz)	1Mbps	29	-97
		2Mbps	29	-95
		5.5Mbps	29	-92
		11Mbps	29	-89
	802.11g(2.412 ~ 2.472GHz)	6Mbps	29	-96
		9Mbps	29	-93
		12Mbps	29	-89
		18Mbps	29	-85
		24Mbps	27	-81
		36Mbps	27	-79
		48Mbps	26	-76
		54Mbps	25	-75
	802.11n(2.412 ~ 2.472GHz) (2 streams)	MCS0 / MCS8	29	-95
		MCS1 / MCS9	29	-92
		MCS2 / MCS10	29	-87
		MCS3 / MCS11	29	-85
		MCS4 / MCS12	26	-80
		MCS5 / MCS13	25	-79
		MCS6 / MCS14	24	-74
		MCS7 / MCS15	23	-73

Antenna	Internal 14dBi Directional Antenna		

Software Specification

Operation Mode	Access Point / Client Bridge / Client Router / WDS
Wireless	Auto Channel Selection (Setting varies by Regular Domains)
	Distance Control (802.1x Ack timeout)
	Multiple SSID (4 SSID)
	VLAN Function

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	WDS AP / WDS Bridge / WDS Station
	BSSID
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
QoS	WMM
Management	
Configuration	Web-based configuration (HTTP)
Firmware Upgrade	Upgrade firmware via web browser
	Fix latest setting parameter when firmware upgrading
Administrator Setting	Administrator password can be changed
System monitoring	Status in hand , useful statistic and Event log
Reset Setting	Reset to factory default and reboot
MIB	MIB I , MIB II and Private MIB
SNMP	V1 , V2c
Backup	Save all setting and condition to a file by web
Environment & Mechanical	
Temperature Range	Operating -20°C~70°C
	Storage -30°C to 80°C
Humidity (non-condensing)	0%～90% typical
Waterproof	IP67
Dimensions	323mm (L) x 230mm (W) x 107mm (H)
Weight	1568g