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ENH202

LONG RANGE WIRELESS 11N OUTDOOR CB/AP

- IEEE802.11/b/g/n
- 2T+2R
- 300Mbps
- CB/AP/CR/WDS

OVERVIEW

ENH202 Wireless Outdoor CPE features 10dBi high gain antenna dual polarization with high output power and high sensitivity can extend the transmission range to deliver a stable wireless connection. ENH202 integrates 4 operation modes: Access Point, Client Bridge, Client Router and WDS.

With integrated 10dBi dual-polarized antenna and high output power, it's convenient to build up to 20km long range wireless link while reducing dead spots. Advanced multi-function operation modes offer flexibility in constructing scalable wireless networks for all possible applications. ENH202 is designed to deliver reliable service under harsh outdoor environment with certified IP65 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.

BUSINESS CLASS
ENH202

FEATURES	
SPECIFICATIONS	
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 indicates in the LEDs of 3 colors, makes 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	
Narrow Bandwidth	Provide different bandwidth selection (5MHz/10MHz/20MHz/40MHz) for wireless communication
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
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	
HARDWARE SPECIFICATION	
MCU	Atheros AR7240
RF	Atheros AR9283
Memory	32MB
Flash	8MB
Physical Interface	2 x RJ-45 for 10/100 Fast Ethernet 1 x Reset Button

BUSINESS CLASS
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Power Requirements	- Active Ethernet (Power over Ethernet)
	- Proprietary PoE design
	- Power Adapter 24V / 0.6A

RF SPECIFICATION

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

RADIO FREQUENCY BAND

Channel	Data Rate	Tx Avg. Power (±2dBm)	Rx Sensitivity (±2dBm)
802.11b(2.412 ~ 2.472GHz)	1Mbps	28	-97
	2Mbps	28	-95
	5.5Mbps	28	-92
	11Mbps	28	-89
802.11g(2.412 ~ 2.472GHz	6Mbps	28	-96
	9Mbps	28	-93
	12Mbps	28	-89
	18Mbps	28	-85
	24Mbps	27	-81
	36Mbps	26	-79
	48Mbps	25	-76
	54Mbps	24	-75
802.11n(2.412 ~ 2.472GHz)	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 10dBi Directional Antenna (Dual Polarization)		
Internal Antenna	Antenna Specification		
	Gain	10dBi	
	Radiation	Directional	
	Frequency Band Range	2.4-2.5GHz	
	Horizontal -3dB Bandwidth	70°	
	Vertical -3dB Bandwidth	35°	

SOFTWARE SPECIFICATION

Operation Mode	Access Point / Client Bridge / Client Router / WDS

BUSINESS CLASS
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Wireless Network	Auto Channel Selection (Setting varies by Regular Domains) Distance Control (802.1x Ack timeout) CLI Supported 802.1x Supplicant (CB Mode) Multiple SSID (4 SSID), BSSID WDS AP / WDS Bridge / WDS Station Multicast Supported RADIUS Accounting VLAN Tag / VLAN Pass-through Auto Reboot Obey Regulatory Power
Security	WEP Encryption-64/128/152 bit WPA/WPA2 Personal (WPA-PSK using TKIP or AES) WPA/WPA2 Enterprise (WPA-EAP using TKIP) Hide SSID in beacons MAC address filtering, up to 50 field Wireless STA (Client) connected list
QoS	WMM
MANAGEMENT	
Configuration	Web-based configuration (HTTP)/Telnet
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 Humidity (non-condensing)	Operating -20°C ~ 70°C Storage -30°C ~ 80°C
	0%～90 % typical
ESD Protection	15KV (Certificated Standard is 8KV)

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Waterproof	IP65
Dimensions	260mm (L) x 84mm (W) x 55mm (H)
Weight	380g

PACKAGE CONTENTS
► Wireless Long Range 11N CB/AP (ENH202)
► PoE Injector (EPE-24R)
► Power Adaptor (24V/0.6A)
► CD with User's Manual
► QIG
► Mounting Set
► Special screw set

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