ENH200

LONG RANGE WIRELESS 11N OUTDOOR CB/AP

- IEEE802.11/b/g/n
- 1T+1R
- 150Mbps
- CB/AP/CR/WDS

OVERVIEW

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. ENH200 integrates 4 operation modes: Access Point, Client Bridge, Client Router and WDS.

With integrated 10dBi dual-polarized antenna, it's convenient to build a long range wireless link while reducing dead spots. Advanced multi-function operation modes offer flexibility in constructing scalable wireless networks for all possible applications. ENH200 is designed to deliver reliable service under harsh outdoor environment with waterproof protection and tailored to accommodate multimedia streaming services with data-rate up to 150Mbps. Most importantly, it is built-in encryption standards (WEP, WPA, WPA2, TKIP/AES and IEEE802.1x) ensure maximum security and compatibility.

FEATURES	
HARDWARE FEATURES	
High output power	Transmit high output power programmable for different country selections
High Data Rate	High speed transmitting rate up to 150Mbps with 1T1R 802.11n
Long range transmitting	Transmit power control and distance control (ACK timeout)
Signal Strength Display	Indicate RF signal strength to be shown as LEDs of 3 colors, making network build-up easier. LED indicators have the best transmit and receive signal for traffic communication

BUSINESS CLASS
ENH200

Available at: **Jia Ying Trading Pte Ltd** - 1 Rochor Canal Road #02-67/ 69/ 34-37 Sim Lim Square Singapore 188504
Tel:(+65) 6336 0404 Fax:(+65) 63380404 Website: www.jiaying.com Email: jiaying@singnet.com.sg / email@jiaying.com.sg

PoE Support	Support proprietary 24V passive power over Ethernet
SOFTWARE FEATURES	
Multiple SSID	4 SSID supported. Each SSID can set itself wireless or WAN access setting
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
VLAN Pass-through	Support VLAN Pass-through
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 AR9285
Memory	32MB
Flash	8MB
Physical Interface	2 x RJ-45 for 10/100 Fast Ethernet 1 x Reset Button
Power Requirements	- Active Ethernet (Power over Ethernet) - Proprietary PoE design - Power Adapter 24V / 0.6A
RF SPECIFICATION	
Operation Mode	Access Point / Client Bridge / Client Router / WDS
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

BUSINESS CLASS
ENH200

	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
Internal Antenna	Antenna Specification	
	Gain	10dBi
	Radiation	Directional
	Frequency Band Range	2.4-2.5GHz
	Horizontal -3dB Bandwidth	70°
	Vertical -3dB Bandwidth	35°
Antenna	Internal Directional 10dBi
Certifications	FCC, CE, IC

ENH200EXT Data sheet Version 160512
*   Theoretical wireless signal rate based on IEEE standard of 802.11 b, g, n chipset used. Actual throughput may vary.
    Network conditions and environmental factors lower actual throughput rate.
** All specifications are subject to change without notice.

BUSINESS CLASS
ENH200

RADIO FREQUENCY BAND		
Channel	**Tx Avg. Power** **Optimal (dBm)**	**Rx Sensitivity** **Optimal (dBm)**
802.11b(2.412 ~ 2.472GHz)		
1Mbps	27	-97
2Mbps	27	-95
5.5Mbps	27	-92
11Mbps	27	-89
802.11g(2.412 ~ 2.472GHz)		
6Mbps	26	-96
9Mbps	26	-93
12Mbps	26	-89
18Mbps	26	-85
24Mbps	25	-81
36Mbps	24	-79
48Mbps	23	-76
54Mbps	22	-75
802.11n(2.412 ~ 2.472GHz)		
MCS0 / MCS8	26	-95
MCS1 / MCS9	26	-92
MCS2 / MCS10	26	-87
MCS3 / MCS11	26	-85
MCS4 / MCS12	24	-80
MCS5 / MCS13	23	-79
MCS6 / MCS14	22	-74
MCS7 / MCS15	21	-73

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

ENH200EXT Data sheet Version 160512
*   Theoretical wireless signal rate based on IEEE standard of 802.11 b, g, n chipset used. Actual throughput may vary.
    Network conditions and environmental factors lower actual throughput rate.
** All specifications are subject to change without notice.

BUSINESS CLASS
ENH200

Available at: **Jia Ying Trading Pte Ltd -** 1 Rochor Canal Road #02-67/ 69/ 34-37 Sim Lim Square Singapore 188504
Tel:(+65) 6336 0404 Fax:(+65) 63380404 Website: www.jiaying.com   Email: jiaying@singnet.com.sg / email@jiaying.com.sg

PACKAGE CONTENTS
► Wireless Long Range 11N CB/AP (ENH200)
► PoE Injector (EPE-24R)
► Power Adapter (24V/0.6A)
► CD with User's Manual
► QIG
► Mounting Set
► Screw set

BUSINESS CLASS
ENH200