

ENH200

LONG RANGE WIRELESS 11N OUTDOOR CB/AP

- IEEE802.11b/g/n
- 1T+1R
- 150Mbps
- 25 km
- High Performance

OVERVIEW

ENH200 is 802.11b/g/n Access Point / Client Bridge has been developed to address applications and networks which need higher speed and better coverage. Its integrated 10dBi antenna offers dual polarized wireless connection. With IP65, weather-proof housing, ENH200 is made to last and therefore lower its maintenance cost.



To support connection to other IP base devices, ENH200 provided an additional LAN port. The high performance RF design allows distance control up to 25km. The RSSI indicator also enables the best transmits and receives signals for traffic communication.

To protect your wireless connectivity, it can encrypt all wireless transmissions through 64/128-bit WEP data encryption and also supports WPA/WPA2. The MAC address filter lets you select exactly which stations should have access to your network. In addition, the User Isolation function can protect the private network between client users.

To help WISP and network administrator better manage the WiFi Access, ENH200 is equipped with MSSID and VLAN tagging.

FEATURES	
SPECIFICATIONS	
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	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	
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	
MCU	Atheros AR7240
RF	Atheros AR9285
Memory	32MB
Flash	8MB
Standard	IEEE 802.11 b/g/n
Physical Interface	- 1 x 10/100Mbps with PoE support - 1 x 10/100Mbps LAN Port
Data rate	150 Mbps
LEDs status	- Power Status - LAN1/LAN2 (10/100Mbps) - WLAN (Wireless is up)

	- 3 x Link Quality (Client Bridge mode)	
Security	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - Active Ethernet (Power over Ethernet) - Proprietary PoE design - Power Adapter 24VAC / 0.6A 	
Antenna	Internal Directional 10dBi	
Certifications	FCC, CE, IC	
RADIO FREQUENCY BAND		
Channel	Tx Avg. Power Optimal (dBm)	Rx Sensitivity Optimal (dBm)
802.11b(2.412 ~ 2.472GHz)		

ENH200EXT Data sheet Version 120711

* 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.

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	Operating -20°C ~ 70°C Storage -30°C ~ 80°C
Humidity (non-condensing)	0% ~ 90 % typical
Waterproof	IP65

PACKAGE CONTENTS

▶ Wireless Long Range 11N CB/AP (ENH200)
▶ PoE Injector (EPE-24R)
▶ Power Adaptor
▶ CD with User's Manual
▶ QIG
▶ Mounting Set
▶ Special screw set