

# 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

ENH200EXT Datasheet Version 160512

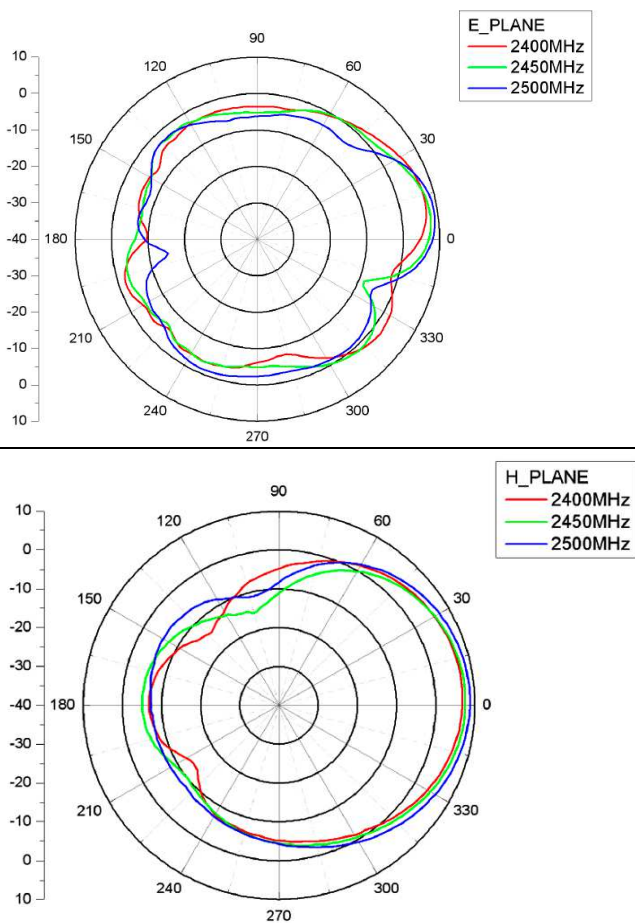
\* Theoretical wireless signal rate based on IEEE standard of 802.11 b, g, n chipset used. Actual throughput may vary.  
Network conditions and environmental factors lower actual throughput rate.  
\*\* All specifications are subject to change without notice.

BUSINESS CLASS

# ENH200

PoE Support	Support proprietary 24V passive power over Ethernet
<b>SOFTWARE FEATURES</b>	
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	
<b>HARDWARE SPECIFICATION</b>	
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
<b>RF SPECIFICATION</b>	
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

	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	
		
Available transmit power (EIRP)		19dBm

Certifications	FCC, CE, IC
<b>RADIO FREQUENCY BAND</b>	
<b>Channel</b>	<b>Rx Sensitivity Optimal (dBm)</b>
<b>802.11b(2.412 ~ 2.472GHz)</b>	
1Mbps	-97
2Mbps	-95
5.5Mbps	-92
11Mbps	-89
<b>802.11g(2.412 ~ 2.472GHz)</b>	
6Mbps	-96
9Mbps	-93
12Mbps	-89
18Mbps	-85
24Mbps	-81
36Mbps	-79
48Mbps	-76
54Mbps	-75
MCS0 / MCS8	-95
MCS1 / MCS9	-92
MCS2 / MCS10	-87
MCS3 / MCS11	-85
MCS4 / MCS12	-80
MCS5 / MCS13	-79
MCS6 / MCS14	-74
MCS7 / MCS15	-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
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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