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ENH200EXT

LONG RANGE WIRELESS 11N OUTDOOR CB/AP

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

OVERVIEW

ENH200EXT Wireless Outdoor unit provides not only a external antenna connector for antenna upgrade, but also high output power and high sensitivity can extend the transmission range to deliver a stable wireless connection. ENH200EXT integrates 4 operation modes: Access Point, Client Bridge, Client Router and WDS.

Advanced multi-function operation modes offer flexibility in constructing scalable wireless networks for all possible applications. ENH200EXT 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 150Mbps. Most importantly, it is built-in encryption standards (WEP, WPA, WPA2, TKIP/AES and IEEE802.1x) ensure maximum security and compatibility.

BUSINESS CLASS
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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 RJ-45 Port with PoE support - 1 x SMA connector - 1 x Reset
Data rate	150 Mbps
LEDs status	- Power Status - LAN (10/100Mbps)

*   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.

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	- WLAN (Wireless is up)
	- 3 x Link Quality (Client Bridge mode)
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
Power Requirements	- Active Ethernet (Power over Ethernet)
	- Proprietary PoE design
	- Power Adapter 24VAC / 0.6A
Antenna	1 x external SMA connector
Certifications	FCC, CE, IC

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
6Mbps	26	-96
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

ENH200EXT Data sheet Version 120711
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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
Waterproof	IP65

PACKAGE CONTENTS
► Wireless Long Range 11N CB/AP(ENH200EXT)
► PoE Injector (EPE-24R)
► Power Adaptor
► CD with User's Manual
► QIG
► Mounting Set
► Special screw set

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