EnGenius®
Get Connected | Get EnGenius

ENH200EXT

LONG RANGE WIRELESS 11N OUTDOOR CB/AP

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

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.

* 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
ENH200EXT

FEATURES

HARDWARE FEATURES

High output power	*Transmit high output power programmable for different country selections*
High Data Rate	*High speed transmitting rate up to150Mbps 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*
PoE Support	*Support proprietary 24V passive power over Ethernet*
Upgradable Antenna	*Provide a SMA external connector for antenna upgradable.*

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	1 x RJ-45 for 10/100 Fast Ethernet 1 x External SMA Connector 1 x Reset Button
Power Requirements	- Active Ethernet (Power over Ethernet) - Proprietary PoE design - Power Adapter 24V / 0.6A

RF SPECIFICATION

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
ENH200EXT

Learn more about EnGenius Solutions at **www.engeniustech.com.sg**

Available transmit power (at RF connector)	19dBm
Data rate	150 Mbps
Frequency Band	802.11b/g/n

RADIO FREQUENCY BAND (The Max. Power may be different depending on local regulations)

Channel	Rx Sensitivity Optimal (±2dBm)
802.11b(2.412 ~ 2.472GHz)	
1Mbps	-97
2Mbps	-95
5.5Mbps	-92
11Mbps	-89
802.11g(2.412 ~ 2.472GHz)	
6Mbps	-96
9Mbps	-93
12Mbps	-89
18Mbps	-85
24Mbps	-81
36Mbps	-79
48Mbps	-76
54Mbps	-75
6Mbps	-96
802.11n(2.412 ~ 2.472GHz)	
MCS0 / MCS8	-95
MCS1 / MCS9	-92
MCS2 / MCS10	-87
MCS3 / MCS11	-85
MCS4 / MCS12	-80
MCS5 / MCS13	-79
MCS6 / MCS14	-74
MCS7 / MCS15	-73
Antenna	1 x External SMA Connector
SOFTWARE SPECIFICATION	
Operation Mode	Access Point / Client Bridge / Client Router / WDS

BUSINESS CLASS
ENH200EXT

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

ENVIRONMENT & MECHANICAL	
Temperature Range Humidity (non-condensing)	Operating -20℃ ~ 70℃ Storage -30℃ ~ 80℃
	0%～90 % typical
ESD Protection	15KV (Certificated Standard is 8KV)
Dimensions	260mm (L) x 84mm (W) x 55mm (H)
Weight	380g
Waterproof	IP65

PACKAGE CONTENTS
► Wireless Long Range 11N CB/AP (ENH200EXT)
► PoE Injector (EPE-24R)
► Power Adapter (24V/0.6A)
► CD with User's Manual
► QIG
► Mounting Set

BUSINESS CLASS
ENH200EXT

► Screw set

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
ENH200EXT

Learn more about EnGenius Solutions at **www.engeniustech.com.sg**