ENS200EXT
LONG RANGE WIRELESS 11N OUTDOOR AP/CB

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

ENS200EXT Wireless Outdoor unit provides not only external antenna connectors for antenna upgrade, but also high output power and high sensitivity can extend the transmission range to deliver a stable wireless connection. ENS200EXT 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. ENS200EXT is designed to deliver reliable service under harsh outdoor environment with high 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.

Package Contents
1 x ENS200EXT
1 x 2.4GHz 5dBi Omni Antenna
1 x Power Adapter (24V/0.6A)
1 x PoE Injector (EPE1212)
1 x Pole Mount set
1 x Screw Set
1 x Supporting Card

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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*
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, V3*

SPECIFICATION

Hardware Specification

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

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Frequency Band	802.11b/g/n			
Data rate	150 Mbps			
Radio Frequency Band **(The Max. Power may be** **different depending on local** **regulations)**	Channel	Data Rate	Tx Avg. Power (±2dBm)	Rx Sensitivity (±2dBm)
	802.11b(2.412 ~ 2.472GHz)	1Mbps	26	-97
		2Mbps	26	-95
		5.5Mbps	26	-93
		11Mbps	26	-90
	802.11g(2.412 ~ 2.472GHz)	6Mbps	26	-96
		9Mbps	26	-92
		12Mbps	26	-89
		18Mbps	26	-85
		24Mbps	26	-82
		36Mbps	25	-80
		48Mbps	23	-78
		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	25	-80
		MCS5 / MCS13	24	-78
		MCS6 / MCS14	22	-74
		MCS7 / MCS15	21	-71
Antenna	1 x External SMA Connector			

Software Specification

Operation Mode	Access Point / Client Bridge / Client Router / WDS
Wireless/Network	Auto Channel Selection (Setting varies by Regular Domains) Obey Regulatory Power Distance Control (802.1x Ack timeout) CLI Supported 802.1x Supplicant (CB Mode) Multiple SSID (4 SSID), BSSID WDS AP / WDS Bridge / WDS Station

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	Multicast Supported
	RADIUS Accounting
	VLAN Tag / VLAN Pass-through
	Auto Reboot
	WiFi Scheduling
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	Operating -20°C~70°C Storage -30°C to 80°C
Humidity (non-condensing)	0%～90% typical
Dimensions	186mm (L) x 100mm (W) x 29mm (H)
Weight	300g