

# ENS202EXT

Long Range Wireless 11N Outdoor AP /CB

- 2.4 GHz
- 2T+2R
- 11b/g/n
- 300Mbps

## PRODUCT OVERVIEW



**ENS202EXT** 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. ENS202EXT 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. ENS202EXT 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 300Mbps. Most importantly, it is built-in encryption standards (WEP, WPA, WPA2, TKIP/AES and IEEE802.1x) ensure maximum security and compatibility.

## FEATURES

ENS202EXT Data sheet Version 260313

\*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

**ENS202EXT**

HARDWARE FEATURES	
<b>High output power</b>	Transmit high output power programmable for different country selections
<b>High Data Rate</b>	High speed transmitting rate up to 300Mbps with 2T2R 802.11n
<b>Long range transmitting</b>	Transmit power control and distance control (ACK timeout)
<b>Signal Strength Display</b>	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
<b>PoE Support</b>	Support proprietary 24V passive power over Ethernet
SOFTWARE	
<b>Multiple SSID</b>	4 SSID supported. Each SSID can set itself wireless or WAN access setting
<b>PPPoE</b>	Point-to-Point Protocol over Ethernet at Client Router mode. This function will keep trying when failed or disconnected
<b>PPTP</b>	Point-to-Point Tunneling Protocol (PPTP) is a method for implementing virtual private networks
<b>VLAN Pass-through</b>	Support VLAN Pass-through
<b>Firmware Upgrade</b>	Upgrading firmware via web browser, setting are reserved after upgrade
<b>Reset &amp; Backup</b>	Reset to factory default. User can export all setting into a file via WEB
<b>Ping &amp; Trace Route</b>	Built-in PING function & Trace Route function in Web GUI
<b>MIB</b>	MIB I, MIB II (RFC1213), Private MIB
<b>SNMP</b>	V1, V2c, V3

SPECIFICATIONS	
HARDWARE SPECIFICATIONS	
<b>MCU</b>	Atheros AR9341
<b>RF</b>	N/A
<b>Memory</b>	64MB
<b>Flash</b>	16MB
<b>Physical Interface</b>	2 x RJ-45 for 10/100 Fast Ethernet 1 x Reset Button

<b>Power Requirements</b>	<ul style="list-style-type: none"> <li>- Active Ethernet (Power over Ethernet)</li> <li>- Proprietary PoE design</li> <li>- Power Adapter 24V / 0.6A</li> </ul>				
<b>RF SPECIFICATIONS</b>					
<b>Frequency Band</b>	802.11b/g/n				
<b>Data rate</b>	300Mbps				
<b>Radio Frequency Band (The Max. Power may be different depending on local regulations)</b>	802.11b (2.412 ~ 2.472GHz)	Channel	Data Rate	Tx Avg. Power (±2dBm)	Rx Sensitivity (±2dBm)
			1Mbps	26	-95
			2Mbps	26	-95
			5.5Mbps	26	-93
		11Mbps	26	-93	
	802.11g (2.412 ~ 2.472GHz)		6Mbps	26	-95
			9Mbps	26	-93
			12Mbps	26	-93
			18Mbps	26	-93
			24Mbps	26	-92
			36Mbps	25	-80
			48Mbps	24	-77
			54Mbps	23	-75
	802.1n (2.412 ~ 2.472GHz)		MCS0 / MCS8	26	-95
			MCS1 / MCS9	26	-93
		MCS2 / MCS10	26	-92	
		MCS3 / MCS11	26	-90	
		MCS4 / MCS12	25	-86	
		MCS5 / MCS13	24	-83	
		MCS6 / MCS14	23	-76	
	MCS7 / MCS15	22	-73		
<b>Antenna</b>	2 x 5dBi dipole antenna				
<b>SOFTWARE SPECIFICATIONS</b>					
<b>Operation Mode</b>	Access Point / Client Bridge / Client Router / WDS				

<b>Wireless/Network</b>	<p>Auto Channel Selection (Setting varies by Regular Domains)</p> <p>Obey Regulatory Power</p> <p>Distance Control (802.1x Ack timeout)</p> <p>CLI Supported</p> <p>802.1x Supplicant (CB Mode)</p> <p>Multiple SSID (4 SSID), BSSID</p> <p>WDS AP / WDS Bridge / WDS Station</p> <p>Multicast Supported</p> <p>RADIUS Accounting</p> <p>VLAN Tag / VLAN Pass-through</p> <p>Auto Reboot</p> <p>WiFi Scheduling</p>
<b>Security</b>	<p>WEP Encryption-64/128/152 bit</p> <p>WPA/WPA2 Personal (WPA-PSK using TKIP or AES)</p> <p>WPA/WPA2 Enterprise (WPA-EAP using TKIP)</p> <p>Hide SSID in beacons</p> <p>MAC address filtering, up to 50 field</p> <p>Wireless STA (Client) connected list</p>
<b>QoS</b>	WMM

ENVIRONMENT AND MECHANICAL	
<b>Temperature Range</b>	Operating -20°C~70°C Storage -30°C to 80°C
<b>Humidity (non-condensing)</b>	0%~90% typical
<b>Dimensions</b>	186mm (L) x 100mm (W) x 29mm (H)
<b>Weight</b>	300g

PACKAGE CONTENT
▶ 1 x ENS202EXT
▶ 2 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 Technical Support Card