

ENS200EXT

Long Range Wireless 11N Outdoor AP /CB

- 2.4 GHz
- 1T+1R
- 11b/g/n
- 150Mbps



PRODUCT OVERVIEW

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.

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	
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

SPECIFICATIONS	
HARDWARE SPECIFICATIONS	
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	<ul style="list-style-type: none"> - Active Ethernet (Power over Ethernet) - Proprietary PoE design - Power Adapter 24V / 0.6A 																																														
RF SPECIFICATIONS																																															
Available transmit power (ERIP)	19dBm																																														
Frequency Band	802.11b/g/n																																														
Data rate	150Mbps																																														
Radio Frequency Band	<table border="1"> <thead> <tr> <th>Channel</th> <th>Data Rate</th> <th>Rx Sensitivity (±2dBm)</th> </tr> </thead> <tbody> <tr> <td rowspan="4">802.11b (2.412 ~ 2.472GHz)</td> <td>1Mbps</td> <td>-97</td> </tr> <tr> <td>2Mbps</td> <td>-95</td> </tr> <tr> <td>5.5Mbps</td> <td>-93</td> </tr> <tr> <td>11Mbps</td> <td>-90</td> </tr> <tr> <td rowspan="7">802.11g (2.412 ~ 2.472GHz)</td> <td>6Mbps</td> <td>-96</td> </tr> <tr> <td>9Mbps</td> <td>-92</td> </tr> <tr> <td>12Mbps</td> <td>-89</td> </tr> <tr> <td>18Mbps</td> <td>-85</td> </tr> <tr> <td>24Mbps</td> <td>-82</td> </tr> <tr> <td>36Mbps</td> <td>-80</td> </tr> <tr> <td>48Mbps</td> <td>-78</td> </tr> <tr> <td rowspan="7">802.11n (2.412 ~ 2.472GHz)</td> <td>54Mbps</td> <td>-75</td> </tr> <tr> <td>MCS0 / MCS8</td> <td>-95</td> </tr> <tr> <td>MCS1 / MCS9</td> <td>-92</td> </tr> <tr> <td>MCS2 / MCS10</td> <td>-87</td> </tr> <tr> <td>MCS3 / MCS11</td> <td>-85</td> </tr> <tr> <td>MCS4 / MCS12</td> <td>-80</td> </tr> <tr> <td>MCS5 / MCS13</td> <td>-78</td> </tr> <tr> <td>MCS6 / MCS14</td> <td>-74</td> </tr> <tr> <td>MCS7 / MCS15</td> <td>-71</td> </tr> </tbody> </table>	Channel	Data Rate	Rx Sensitivity (±2dBm)	802.11b (2.412 ~ 2.472GHz)	1Mbps	-97	2Mbps	-95	5.5Mbps	-93	11Mbps	-90	802.11g (2.412 ~ 2.472GHz)	6Mbps	-96	9Mbps	-92	12Mbps	-89	18Mbps	-85	24Mbps	-82	36Mbps	-80	48Mbps	-78	802.11n (2.412 ~ 2.472GHz)	54Mbps	-75	MCS0 / MCS8	-95	MCS1 / MCS9	-92	MCS2 / MCS10	-87	MCS3 / MCS11	-85	MCS4 / MCS12	-80	MCS5 / MCS13	-78	MCS6 / MCS14	-74	MCS7 / MCS15	-71
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Antenna	1 x 5dBi dipole antenna																																														
SOFTWARE SPECIFICATIONS																																															
Operation Mode	Access Point / Client Bridge / Client Router / WDS																																														

Wireless/Network	<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>
Security	<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>
QoS	WMM

ENVIRONMENT AND 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

PACKAGE CONTENT
▶ 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 Technical Support Card