

# ENS200

Long Range Wireless 11N Outdoor AP /CB

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



## PRODUCT OVERVIEW

**ENS200**, the high-efficient 8dBi directional antenna provides an optimum, extended real outdoor throughput performance via point to point transmission in long range distances. The certified IP65 waterproof with compact, robust design can be diversely configured and operated in the extremely harsh outdoor environment. Its advanced multi-operation modes (AP, CB, CR, WDS AP/Bridge/WDS Station) integrated with Network Management Software "EZ Controller" can offer variety uses in constructing scalable wireless network of all possible applications also allow centralized management via user-interface.

**ENS200** built-in encryption standards (IEEE802.1x, WEP, WPA, WPA2, TKIP/AES for CB/CR modes) ensure full-scale security protection. Along with Proprietary PoE support excellent long-range network installation when used in conjunction with its outdoor family ENH210EXT and ENH700EXT.

SOFTWARE 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
RSSI Indicator	Shown user every incoming RF signal strength measurement
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
WiFi Scheduling	User could set a schedule for turning-on/off WiFi Radio
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	- Active Ethernet (Power over Ethernet) - Proprietary PoE design - Power Adapter 24V / 0.6A																																															
RF SPECIFICATIONS																																																
Available transmit power	19dBm																																															
Frequency Band	802.11b/g/n																																															
Data rate	150 Mbps																																															
Radio Frequency Band	<table><tr><th>Channel</th><th>Data Rate</th><th>Rx Sensitivity (±2dBm)</th></tr><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="8">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>54Mbps</td><td>-75</td></tr><tr><td rowspan="8">802.11n(2.412 ~ 2.472GHz)</td><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></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	54Mbps	-75	802.11n(2.412 ~ 2.472GHz)	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	Internal 8dBi Directional Antenna																																															
	Peak Gain (dBi)	8.0																																														
	VSWR	2.0 : 1																																														
	HPBW (Horizontal)	60°																																														
	HPBW (Vertical)	60°																																														
SOFTWARE SPECIFICATIONS																																																
Operation Mode	Access Point / Client Bridge / Client Router / WDS																																															

<b>Wireless/Network</b>	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 Multicast Supported RADIUS Accounting VLAN Tag / VLAN Pass-through Auto Reboot WiFi Scheduling
<b>Security</b>	WEP Encryption-64/128/152 bit WPAWPA2 Personal (WPA-PSK using TKIP or AES) WPAWPA2 Enterprise (WPA-EAP using TKIP) Hide SSID in beacons MAC address filtering, up to 50 field Wireless STA (Client) connected list
<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 ENS200	
▶ 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	