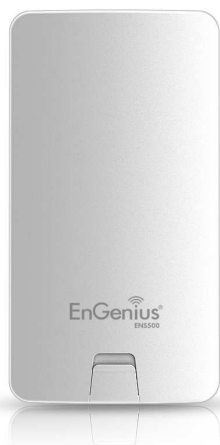


# ENS500

Long Range Wireless 11N Outdoor AP /CB

- 2T+2R
- 11a/n
- 300Mbps
- CB/AP/CR/WDS



## PRODUCT OVERVIEW

**ENS500**, the high-efficient 10dBi directional with polarization antenna provides an optimum, extended real outdoor throughput performance via point to point transmission in long range distances. The good waterproof ability with compact, robust design can be diversely configured and operated in the extremely harsh outdoor environment. Its advanced multi-operation modes (CB, AP, CR, WDS AP, WDS Bridge and 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.

**ENS500** 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 ENH700EXT.

FEATURES	
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>WiFi Scheduling</b>	User could set a schedule for turning-on/off WiFi Radio
<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 AR9344
<b>RF</b>	N/A
<b>Memory</b>	64MB
<b>Flash</b>	16MB

Physical Interface	2 x RJ-45 for 10/100 Fast Ethernet 1 x Reset Button		
Power Requirements	<div>- Active Ethernet (Power over Ethernet)</div> <div>- Proprietary PoE design</div> <div>- Power Adapter 24V / 0.6A</div>		
RF SPECIFICATIONS			
Available transmit power	19dBm		
Frequency Band	802.11a/n		
Data rate	300Mbps		
Radio Frequency Band  (The Max. Power may be different depending on local regulations)	Channel		Rx Sensitivity (±2dBm)
	802.11a (5.18 ~ 5.825GHz))	6Mbps	-95
		9Mbps	-92
		12Mbps	-89
		18Mbps	-85
		24Mbps	-81
		36Mbps	-79
		48Mbps	-76
		54Mbps	-75
	802.1n (2.412 ~ 2.472GHz)	MCS0 / MCS8	-95
		MCS1 / MCS9	-93
		MCS2 / MCS10	-90
		MCS3 / MCS11	-87
		MCS4 / MCS12	-84
		MCS5 / MCS13	-79
		MCS6 / MCS14	-75
		MCS7 / MCS15	-73
	Antenna	Internal 10dBi Directional Antenna with Dual Polarization	
Gain		10	
VSWR		2.0 : 1	
HPBW (H)		43°	39°
HPBW (V)		71°	61°
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 ENS500	
▶ 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	