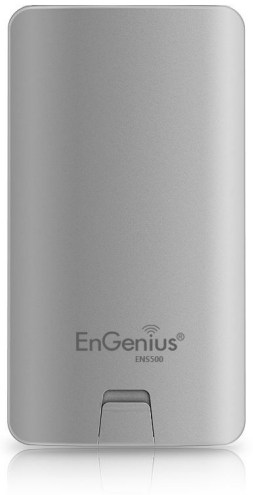
EnGenius®

DATASHEET

ENS500

LONG RANGE WIRELESS 11N OUTDOOR CB/AP

IEEE802.11a/n 2T+2R 300Mbps CB/AP/CR/WDS



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.

Package Contents

1 x ENS500 Device
1 x Power Adapter (24V/0.6A)
1 x PoE Injector (EPE1212)
1 x Pole Mount set
1 x Screw Set
1 x CD(User Manual)
1 x Quick Guide
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 300Mbps with 2T2R 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*
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*

SPECIFICATION	
Hardware Specification	
MCU	Atheros AR9344
RF	N/A
Memory	64MB
Flash	16MB

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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

Frequency Band	**802.11a/n**
Data rate	300 Mbps

Radio Frequency Band (The Max. Power may be different depending on local regulations)

Channel	Data Rate	Tx Avg. Power (±2dBm)	Rx Sensitivity (±2dBm)
802.11a (5.18 ~ 5.825GHz)	6Mbps	26	-95
	9Mbps	26	-92
	12Mbps	26	-89
	18Mbps	26	-85
	24Mbps	26	-81
	36Mbps	25	-79
	48Mbps	23	-76
	54Mbps	21	-75
802.11n(5.18 ~ 5.825GHz)	MCS0 / MCS8	26	-95
	MCS1 / MCS9	26	-93
	MCS2 / MCS10	26	-90
	MCS3 / MCS11	26	-87
	MCS4 / MCS12	24	-84
	MCS5 / MCS13	23	-79
	MCS6 / MCS14	22	-75
	MCS7 / MCS15	21	-73

Antenna	Internal 10dBi Directional Antenna with Dual Polarization

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

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	WDS AP / WDS Bridge / WDS Station 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