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ENS500EXT

Long Range Wireless 11N Outdoor AP /CB

- 2T+2R
- 11a/n
- 300Mbps
- High performance

PRODUCT OVERVIEW

ENS500EXT engineered with the powerful independent RF interface that offers bandwidth up to 300Mbps on 5GHz band for accommodating heavy traffic services. The high-efficient 5dBi omni antenna provides an optimal, extended real outdoor throughput performance via widely coverage in long range distances.

It can operate into four different modes with Access Point, Client Bridge, Client Router and WDS Mode.

ENS500EXT integrated with Network Management Software "EZ controller" can offer variety uses in constructing scalable wireless network of all possible application and also allow centralized management via user-interface. EnGenius has developed the multiple functions for maximum security, monitoring and easily management to ensure the optimal users' experience. ENS500EXT provides wide-range of authentication and encryption standards (including WEP, WPA, WPA2, TKIP/AES and IEEE 802.1X) to enforce the maximum security. Along with Proprietary PoE support excellent long-range network installation when used in conjunction with its outdoor family – ENH900EXT.

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BUSINESS CLASS
ENS500EXT

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

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 AR9344
RF	N/A

ENS500EXT 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

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Memory	64MB
Flash	16MB
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 (ERIP)	19dBm
Frequency Band	802.11a/n
Data rate	300Mbps

RF Specification (Aggregated Value)	Channel	Data Rate	Transmit Power (Aggregated, dBm)	Receive Sensitivity (Aggregated, dBm)
	802.11a 5 GHz	6 Mbps	26.0	-950
		54 Mbps	21.0	-75.0
	802.11n HT20 5GHz	MCS 0 / 8 / 16	26.0	-95.0
		MCS 7 / 15 / 23	21.0	-73.0
	802.11n HT40 5GHz	MCS 0 / 8 / 16	26.0	-94.0
		MCS 7 / 15 / 23	21.0	-71.0

*Maximum performance of the hardware provided. Maximum transmit power is limited by local regulatory.

*The supported frequency band is restricted by local regulatory requirements.

*Transmit power is configured in 1.0dBm increments.

Antenna	2 x 5dBi Dipole

SOFTWARE SPECIFICATIONS

Operation Mode	Access Point / Client Bridge / Client Router / WDS

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

PACKAGE CONTENT
► 1 x ENS500EXT
► 2 x 5GHz 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

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