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ENH500

LONG RANGE WIRELESS 11N OUTDOOR CB/AP

- IEEE802.11a/n
- 2T+2R
- 300Mbps
- 25 km
- High Performance

PRODUCT OVERVIEW

ENH500 Wireless Outdoor CPE features 13dBi high gain antenna dual polarization with high output power and high sensitivity can extend the transmission range to deliver a stable wireless connection. ENH500 integrates 4 operation modes: Access Point, Client Bridge, Client Router and WDS.

With integrated 13dBi dual-polarized antenna, help to reducing dead spots. Advanced multi-function operation modes offer flexibility in constructing scalable wireless networks for all possible applications. ENH500 is designed to deliver reliable service under harsh outdoor environment with certified IP65 protection and tailored to accommodate multimedia streaming services with data-rate up to 300Mbps. Most importantly, it is built-in encryption standards (WEP, WPA, WPA2, TKIP/AES and IEEE802.1x) ensure maximum security and compatibility.

BUSINESS CLASS
ENH500

FEATURES	
SPECIFICATIONS	
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	RF signal strength status indicates in LEDs of 3 colors, makes network build-up easier. LED indicators have the best transmit and receive signal for traffic communication
Multiple SSID	4 SSID supported. Each SSID can set itself wireless or WAN access setting
NETWORKING	
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
802.11i & 802.1x	WPA, WPA2 & IEEE802.1x Authenticator
MANAGEMENT	
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

SPECIFICATIONS	
MCU	Atheros AR7240
RF	Atheros AR9280
Memory	32MB
Flash	8MB
Standard	IEEE 802.11 a/n
Physical Interface	2 x RJ-45 for 10/100 Fast Ethernet 1 x Reset Button
Data rate	300 Mbps
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
Wireless/Network	Auto Channel Selection (Setting varies by Regular Domains) Distance Control (802.1x Ack timeout) CLI Supported

ENH500 Data sheet Version 150711

*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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	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 Obey Regulatory Power
Antenna	Internal Directional 13dBi with dual polarization

Vertical (V-Plane) : 15º

E-PLANE
Far-field amplitude of 5G-01-H15.nsi

| 5.150000 GHz | 5.250000 GHz | 5.350000 GHz |
| 5.725000 GHz | 5.775000 GHz | 5.825000 GHz |

E-PLANE
Far-field amplitude of 5G-01-H10.nsi

| 5.150000 GHz | 5.250000 GHz | 5.725000 GHz |
| 5.775000 GHz | 5.825000 GHz | |

Horizontal (H-Plane) : 60º

H-PLANE
Far-field amplitude of 5G-01-H13.nsi

| 5.150000 GHz | 5.250000 GHz | 5.350000 GHz |
| 5.725000 GHz | 5.775000 GHz | 5.825000 GHz |

H-PLANE
Far-field amplitude of 5G-01-H03.nsi

| 5.150000 GHz | 5.250000 GHz | 5.725000 GHz | 5.825000 GHz |

Certifications	FCC, CE, IC		
RADIO FREQUENCY BAND	Channel		Rx Sensitivity Optimal (dBm)
	802.11a (5.18 ~	6Mbps	-95
		9Mbps	-92

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5.825GHz)	12Mbps	-89
	18Mbps	-85
	24Mbps	-81
	36Mbps	-79
	48Mbps	-76
	54Mbps	-75
802.11n(5.18 ~ 5.825GHz)	MCS0 / MCS8	-94
	MCS1 / MCS9	-92
	MCS2 / MCS10	-88
	MCS3 / MCS11	-85
	MCS4 / MCS12	-80
	MCS5 / MCS13	-79
	MCS6 / MCS14	-74
	MCS7 / MCS15	-73

ENVIRONMENT AND MECHANICAL	
Temperature Range	Operating -20℃~70℃ Storage -30℃ to 80℃
Humidity (non-condensing)	0%～90% typical
ESD Protection	15KV (Certificated Standard is 8KV)
Dimensions	260mm (L) x 84mm (W) x 55mm (H)
Weight	380g
Waterproof	IP65

PACKAGE CONTENT
► Wireless Long Range 11N CB/AP (ENH500)
► PoE Injector (EPE-24R)
► Power Adapter (24V/1A)
► CD with User's Manual
► QIG
► Mounting Set
► Special screw set

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