

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.

FEATURES	
<b>SPECIFICATIONS</b>	
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
<b>NETWORKING</b>	
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
<b>MANAGEMENT</b>	
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	<ul style="list-style-type: none"> <li>- WEP Encryption-64/128/152 bit</li> <li>- WPAWPA2 Personal (WPA-PSK using TKIP or AES)</li> <li>- WPAWPA2 Enterprise (WPA-EAP using TKIP)</li> <li>- Hide SSID in beacons</li> <li>- MAC address filtering, up to 50 field</li> <li>- Wireless STA (Client) connected list</li> </ul>
Wireless/Network	Auto Channel Selection (Setting varies by Regular Domains) Distance Control (802.1x Ack timeout) CLI Supported

	<p>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</p>						
Antenna	<p>Internal Directional 13dBi with dual polarization</p> <p style="text-align: center;"><b>Vertical (V-Plane) : 15°</b></p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="517 725 963 1205"> <p style="text-align: center;">E-PLANE Far-field amplitude of 5G-01-H15.nsi</p> </div> <div data-bbox="999 741 1433 1205"> <p style="text-align: center;">E-PLANE Far-field amplitude of 5G-01-H10.nsi</p> </div> </div> <p style="text-align: center;"><b>Horizontal (H-Plane) : 60°</b></p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="517 1312 963 1787"> <p style="text-align: center;">H-PLANE Far-field amplitude of 5G-01-H13.nsi</p> </div> <div data-bbox="999 1335 1433 1787"> <p style="text-align: center;">H-PLANE Far-field amplitude of 5G-01-H03.nsi</p> </div> </div>						
Certifications	FCC, CE, IC						
RADIO FREQUENCY BAND	Channel						
	802.11a (5.18 ~	<table border="1"> <tr> <td>6Mbps</td> <td>Rx Sensitivity Optimal (dBm)</td> </tr> <tr> <td>9Mbps</td> <td>-95</td> </tr> <tr> <td></td> <td>-92</td> </tr> </table>	6Mbps	Rx Sensitivity Optimal (dBm)	9Mbps	-95	
6Mbps	Rx Sensitivity Optimal (dBm)						
9Mbps	-95						
	-92						

	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°C~70°C Storage -30°C to 80°C
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