

# 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, it's convenient to build up to 25km long range wireless link while 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 IP55 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                |                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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              |                                                                                                                                                                            |
| Narrow Bandwidth        | Provide different bandwidth selection (5MHz/10MHz/20MHz/40MHz) for wireless communication                                                                                  |
| 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     |                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard           | IEEE 802.11 a/n                                                                                                                                                                                                                                                                                                                                                 |
| Physical Interface | <ul style="list-style-type: none"> <li>- 1 x LAN Port with PoE support</li> <li>- 1 x LAN Port</li> <li>- 1 x Reset</li> </ul>                                                                                                                                                                                                                                  |
| Data rate          | 300 Mbps                                                                                                                                                                                                                                                                                                                                                        |
| LEDs status        | <ul style="list-style-type: none"> <li>- Power Status</li> <li>- LAN1/LAN2 (10/100Mbps)</li> <li>- WLAN (Wireless is up)</li> <li>- 3 x Link Quality (Client Bridge mode)</li> </ul>                                                                                                                                                                            |
| Security           | <ul style="list-style-type: none"> <li>- WEP Encryption-64/128/152 bit</li> <li>- WPA/WPA2 Personal (WPA-PSK using TKIP or AES)</li> <li>- WPA/WPA2 Enterprise (WPA-EAP using TKIP)</li> <li>- 802.1x Authenticator</li> <li>- Hide SSID in beacons</li> <li>- MAC address filtering, up to 50 field</li> <li>- Wireless STA (Client) connected list</li> </ul> |

|                      |                                                                                                   |              |                             |                              |
|----------------------|---------------------------------------------------------------------------------------------------|--------------|-----------------------------|------------------------------|
| Power Requirements   | - Active Ethernet (Power over Ethernet)<br>- Proprietary PoE design<br>- Power Adapter 24VAC / 1A |              |                             |                              |
| Antenna              | Internal Directional 13dBi with dual polarization                                                 |              |                             |                              |
| Certifications       | FCC, CE, IC                                                                                       |              |                             |                              |
| RADIO FREQUENCY BAND | 802.11a (5.18 ~ 5.825GHz)                                                                         | Channel      | Tx Avg. Power Optimal (dBm) | Rx Sensitivity Optimal (dBm) |
|                      |                                                                                                   | 6Mbps        | 27                          | -95                          |
|                      |                                                                                                   | 9Mbps        | 27                          | -92                          |
|                      |                                                                                                   | 12Mbps       | 27                          | -89                          |
|                      |                                                                                                   | 18Mbps       | 27                          | -85                          |
|                      |                                                                                                   | 24Mbps       | 27                          | -81                          |
|                      |                                                                                                   | 36Mbps       | 26                          | -79                          |
|                      |                                                                                                   | 48Mbps       | 24                          | -76                          |
|                      |                                                                                                   | 54Mbps       | 23                          | -75                          |
|                      | 802.11n(5.18 ~ 5.825GHz)                                                                          | MCS0 / MCS8  | 27                          | -94                          |
|                      |                                                                                                   | MCS1 / MCS9  | 27                          | -92                          |
|                      |                                                                                                   | MCS2 / MCS10 | 26                          | -88                          |
|                      |                                                                                                   | MCS3 / MCS11 | 26                          | -85                          |
|                      |                                                                                                   | MCS4 / MCS12 | 25                          | -80                          |
|                      |                                                                                                   | MCS5 / MCS13 | 24                          | -79                          |
|                      |                                                                                                   | MCS6 / MCS14 | 24                          | -74                          |
|                      |                                                                                                   | MCS7 / MCS15 | 23                          | -73                          |

| ENVIRONMENT AND MECHANICAL |                                               |
|----------------------------|-----------------------------------------------|
| Temperature Range          | Operating -20°C~70°C<br>Storage -30°C to 80°C |
| Humidity (non-condensing)  | 0%~90% typical                                |
| Waterproof                 | IP55                                          |

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