

ENH210EXT AU

LONG RANGE WIRELESS 11N OUTDOOR CB/AP

- IEEE802.11/b/g/n
- 2T+2R 300Mbps
- 20Km
- High Gain Antenna

OVERVIEW



ENH210EXT AU Wireless Outdoor Enterprise Access Point features 2 x N-type external connectors with high output power and high sensitivity can extend the transmission range to deliver a stable wireless connection. ENH210EXT AU integrates 4 operation modes: Access Point, Client Bridge, Client Router and WDS.

Use external connectors with high output power to combine flexible antenna, it's convenient to build long range wireless link while reducing dead spots. Advanced multi-function operation modes offer flexibility in constructing scalable wireless networks for all possible applications. ENH210EXT AU is designed to deliver reliable service under harsh outdoor environment with certified IP67 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 is shown by LEDs of 3 colors, making 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 |
| MAC Filter | Provide MAC address Filter function |
| 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 | |
|-------------------------------|--|
| Hardware Specification | |
| MCU | Atheros AR7242 |
| RF | Atheros AR9283 |
| Memory | 64MB |
| Flash | 16MB |
| Physical Interface | 1 x Gigabit Ethernet Port with PoE support 1 x Gigabit Ethernet Port 2 x External N-type connector |
| Power Requirements | - Active Ethernet (Power over Ethernet) - 802.3af/at support - Power Adapter 48V / 0.8A |

| RF Specification | | |
|---------------------------|---|-----------------------------------|
| Frequency Band | 802.11b/g/n | |
| Data rate | 300 Mbps | |
| RADIO FREQUENCY BAND | | |
| Channel | Tx Avg. Power Optimal (±2dBm) | Rx Sensitivity Optimal (±2dBm) |
| 802.11b(2.412 ~ 2.472GHz) | | |
| 1Mbps | 29 | -97 |
| 2Mbps | 29 | -95 |
| 5.5Mbps | 29 | -92 |
| 11Mbps | 29 | -89 |
| 802.11g(2.412 ~ 2.472GHz) | | |
| 6Mbps | 29 | -96 |
| 9Mbps | 29 | -93 |
| 12Mbps | 29 | -89 |
| 18Mbps | 29 | -85 |
| 24Mbps | 27 | -81 |
| 36Mbps | 27 | -79 |
| 48Mbps | 26 | -76 |
| 54Mbps | 25 | -75 |
| 802.11n(2.412 ~ 2.472GHz) | | |
| MCS0 / MCS8 | 29 | -95 |
| MCS1 / MCS9 | 29 | -92 |
| MCS2 / MCS10 | 29 | -87 |
| MCS3 / MCS11 | 29 | -85 |
| MCS4 / MCS12 | 26 | -80 |
| MCS5 / MCS13 | 25 | -79 |
| MCS6 / MCS14 | 24 | -74 |
| MCS7 / MCS15 | 23 | -73 |
| Antenna | 2 x External N-type Connector + 2 x 5dBi Omni Antenna | |
| Software Specification | | |
| Operation Mode | Access Point / Client Bridge / Client Router / WDS | |
| Wireless | Auto Channel Selection (Setting varies by Regular Domains) Distance Control (802.1x Ack timeout) Multiple SSID (4 SSID) VLAN Function WDS AP / WDS Bridge / WDS Station | |

| | |
|-----------------------|---|
| | BSSID |
| Security | <ul style="list-style-type: none"> - WEP Encryption-64/128/152 bit - WPA/WPA2 Personal (WPA-PSK using TKIP or AES) - WPA/WPA2 Enterprise (WPA-EAP using TKIP) - 802.1x Authenticator - Hide SSID in beacons - MAC address filtering, up to 50 field - Wireless STA (Client) connected list |
| QoS | WMM |
| Management | |
| Configuration | Web-based configuration (HTTP) |
| Firmware Upgrade | Upgrade firmware via web browser Fix latest setting parameter when firmware upgrading |
| Administrator Setting | Administrator password can be changed |
| System monitoring | Status in hand, useful statistic and Event log |
| Reset Setting | Reset to factory default and reboot |
| MIB | MIB I , MIB II and Private MIB |
| SNMP | V1 , V2c |
| Backup | Save all setting and condition to a file by web |

| ENVIRONMENT & MECHANICAL | |
|---------------------------|---|
| Temperature Range | Operating -20°C~70°C Storage -30°C to 80°C |
| Humidity (non-condensing) | 0%~90% typical |
| Waterproof | IP67 |
| Dimensions | 323mm (L) x 230mm (W) x 107mm (H) |
| Weight | 1468g |

| PACKAGE CONTENTS |
|--|
| ▶ Wireless Long Range 11N CB/AP (ENH210EXT AU) |
| ▶ PoE Injector (EPE-48GR) |
| ▶ Power Adaptor |
| ▶ 2 x 5dBi Omni Antenna |
| ▶ CD with User's Manual |
| ▶ QIG |
| ▶ Mounting Set |
| ▶ Special screw set |

Contact

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ENH210EXT AU Datasheet Version 131011

* 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.

BUSINESS CLASS
ENH210EXT AU