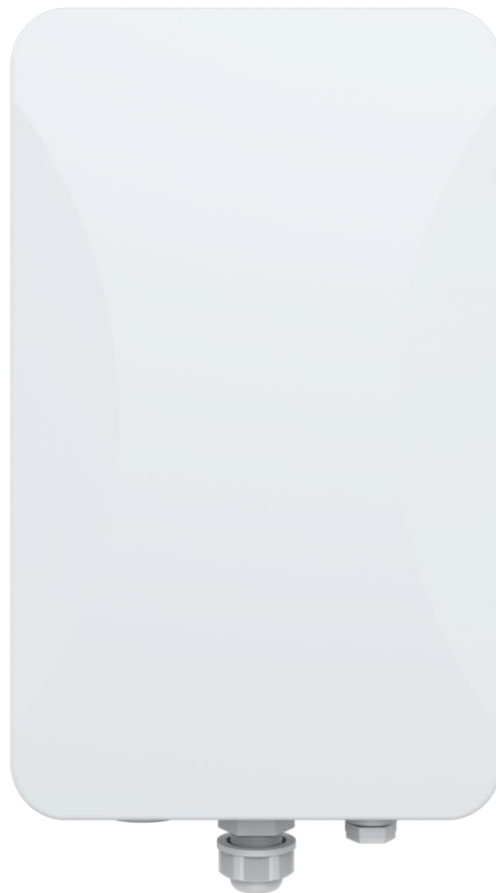


---

# specification

Model: HQ830-P2



---

## Brand and manufacturer information

Brand: LINBLENET

LOGO: LINBLENET

## Model and version

Model: HQ830-P2

Version: V1.3

## Product overview and features

### Product overview

The HQ830-P2 is a high-performance 4T4R dual-band 802.11AX product that provides 2.4G and 5.8GHz dual-band wireless services, with a maximum access rate of 574Mbps for 2.4G and 2402Mbps for 5G.

### product features

- Better transmission quality, higher transmission rate, and up to 3000Mbps concurrent rate.
- Using IPQ5018 chip, the user capacity is greatly expanded, and the number of users can be supported as 120+.
- The heat dissipation sheet adopts snap-on structure design and surface nano coating treatment, which makes the heat dissipation effect more ideal.
- The RF uses high-power FEM, which has stable performance and covers a longer distance.
- Lightning protection plate components are added to greatly enhance the protective capacity of the equipment.

## technical parameter

| Hardware specifications         |                            |
|---------------------------------|----------------------------|
| product model                   | HQ830-P2                   |
| CPU                             | IPQ5018 + QCN6102          |
| Flash                           | SPI NOR 8MB SPI NAND 128MB |
| DDR3                            | 512MB*1                    |
| 2.4G working frequency band     | 2.4GHz ~ 2.484GHz          |
| 2.4G WIFI Transmission protocol | 802.11 b / g / n / ac / ax |

|                               |                                                                                                   |       |         |      |         |
|-------------------------------|---------------------------------------------------------------------------------------------------|-------|---------|------|---------|
| 5G working frequency band     | 5.150GHz ~ 5.825GHz                                                                               |       |         |      |         |
| 5G WIFI transmission protocol | 802.11 a / n / ac / ax                                                                            |       |         |      |         |
| Built-in antenna 2.4G         | 22.4G antennas, each with gain of 5dBi                                                            |       |         |      |         |
| Built-in antenna 5G           | 25.8G antennas, each with gain of 7dBi                                                            |       |         |      |         |
| top speed                     | 2.4G provides a maximum access rate of 574Mbps, and 5G provides a maximum access rate of 2402Mbps |       |         |      |         |
| 2.4GHz wireless power         | 802.11b                                                                                           | 11M   | 24±2dBm | 1M   | 24±2dBm |
|                               | 802.11g                                                                                           | 54M   | 21±2dBm | 6M   | 23±2dBm |
|                               | 802.11n HT20                                                                                      | MCS7  | 20±2dBm | MCS0 | 22±2dBm |
|                               | 802.11n HT40                                                                                      | MCS7  | 20±2dBm | MCS0 | 22±2dBm |
|                               | 802.11ax HE20                                                                                     | MCS11 | 18±2dBm | MCS0 | 22±2dBm |
|                               | 802.11ax HE40                                                                                     | MCS11 | 18±2dBm | MCS0 | 22±2dBm |
| 5GHz wireless power           | 802.11a                                                                                           | 54M   | 19±2dBm | 6M   | 22±2dBm |
|                               | 802.11n HT20                                                                                      | MCS7  | 18±2dBm | MCS0 | 21±2dBm |
|                               | 802.11n HT40                                                                                      | MCS7  | 18±2dBm | MCS0 | 21±2dBm |
|                               | 802.11ac VHT20                                                                                    | MCS8  | 18±2dBm | MCS0 | 21±2dBm |
|                               | 802.11ac VHT40                                                                                    | MCS9  | 18±2dBm | MCS0 | 21±2dBm |
|                               | 802.11ac VHT80                                                                                    | MCS9  | 17±2dBm | MCS0 | 21±2dBm |
|                               | 802.11ax HE20                                                                                     | MCS11 | 18±2dBm | MCS0 | 21±2dBm |
|                               | 802.11ax HE40                                                                                     | MCS11 | 18±2dBm | MCS0 | 21±2dBm |
|                               | 802.11ax HE80                                                                                     | MCS11 | 17±2dBm | MCS0 | 21±2dBm |
|                               | 802.11ax HE160                                                                                    | MCS11 | 17±2dBm | MCS0 | 21±2dBm |
| 2.4GHz reception sensitivity  | 802.11b                                                                                           | 11M   | -88dBm  | 1M   | -91dBm  |
|                               | 802.11g                                                                                           | 54M   | -72dBm  | 6M   | -88dBm  |
|                               | 802.11n HT20                                                                                      | MCS7  | -70dBm  | MCS0 | -88dBm  |
|                               | 802.11n HT40                                                                                      | MCS7  | -68dBm  | MCS0 | -88dBm  |
|                               | 802.11ax HE20                                                                                     | MCS11 | -61dBm  | MCS0 | -88dBm  |
|                               | 802.11ax HE40                                                                                     | MCS11 | -58dBm  | MCS0 | -88dBm  |
| 5GHz reception sensitivity    | 802.11a                                                                                           | 54M   | -72dBm  | 6M   | -90dBm  |
|                               | 802.11n HT20                                                                                      | MCS7  | -70dBm  | MCS0 | -88dBm  |
|                               | 802.11n HT40                                                                                      | MCS7  | -68dBm  | MCS0 | -88dBm  |

|                           |                                                                                                                   |       |        |      |        |
|---------------------------|-------------------------------------------------------------------------------------------------------------------|-------|--------|------|--------|
|                           | 802.11ac VHT20                                                                                                    | MCS8  | -70dBm | MCS0 | -88dBm |
|                           | 802.11ac VHT40                                                                                                    | MCS9  | -68dBm | MCS0 | -88dBm |
|                           | 802.11ac VHT80                                                                                                    | MCS9  | -60dBm | MCS0 | -86dBm |
|                           | 802.11ax HE20                                                                                                     | MCS11 | -61dBm | MCS0 | -88dBm |
|                           | 802.11ax HE40                                                                                                     | MCS11 | -58dBm | MCS0 | -88dBm |
|                           | 802.11ax HE80                                                                                                     | MCS11 | -56dBm | MCS0 | -87dBm |
|                           | 802.11ax HE160                                                                                                    | MCS11 | -54dBm | MCS0 | -85dBm |
| 2.4G EVM                  | 802.11b:≤-10 dB ; 802.11g: ≤-25 dB ; 802.11n:≤-28 dB; 802.11ax:≤-35 dB                                            |       |        |      |        |
| 5G EVM                    | 802.11a:≤-25 dB ; 802.11n: ≤-28 dB ; 802.11ac:≤-32 dB; 802.11ax:≤-35 dB                                           |       |        |      |        |
| frequency deviation (ppm) | ±20ppm                                                                                                            |       |        |      |        |
| Interface (RJ45)          | 110/100/1000/adaptive WAN port, supports POE 48V power supply;                                                    |       |        |      |        |
| Interface (RJ45)          | One Console port                                                                                                  |       |        |      |        |
| External buttons          | Reset button (long press for 6-10 seconds to restore factory default configuration)                               |       |        |      |        |
| Status indicator light    | PWR light, SYS light, WAN port light, 2.4G light, 5.8G light                                                      |       |        |      |        |
| supply electricity        | PoE 802.3at                                                                                                       |       |        |      |        |
| maximum power dissipation | < 16W                                                                                                             |       |        |      |        |
| product size              | 304mm × 181mm × 88mm                                                                                              |       |        |      |        |
| weight                    | 1.6kg                                                                                                             |       |        |      |        |
| work environment          | Normal working temperature: -30°C to 55°C; storage temperature: -40°C to 70°C; humidity: 5%~95% (no condensation) |       |        |      |        |
| levels of protection      | IP67                                                                                                              |       |        |      |        |
| ESD                       | Air discharge +/-8kV, contact discharge +/-4kV                                                                    |       |        |      |        |
| surge                     | Common mode 4kV, differential mode 2kV                                                                            |       |        |      |        |

## software function

|              |                                                                                                                                                 |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| home page    | Working mode: fat AP mode and thin AP mode                                                                                                      |
|              | Wireless AP download rate, wireless AP upload rate, running time                                                                                |
|              | Device information, device description, Intranet information, WIFI information                                                                  |
| Support mode | Gateway mode: The device connects to the WAN through the WAN port and accesses the Internet by means of static IP, DHCP or PPPOE                |
|              | AP mode: The device covers other clients and devices with wireless network signals and connects to other routers via Ethernet to access the WAN |

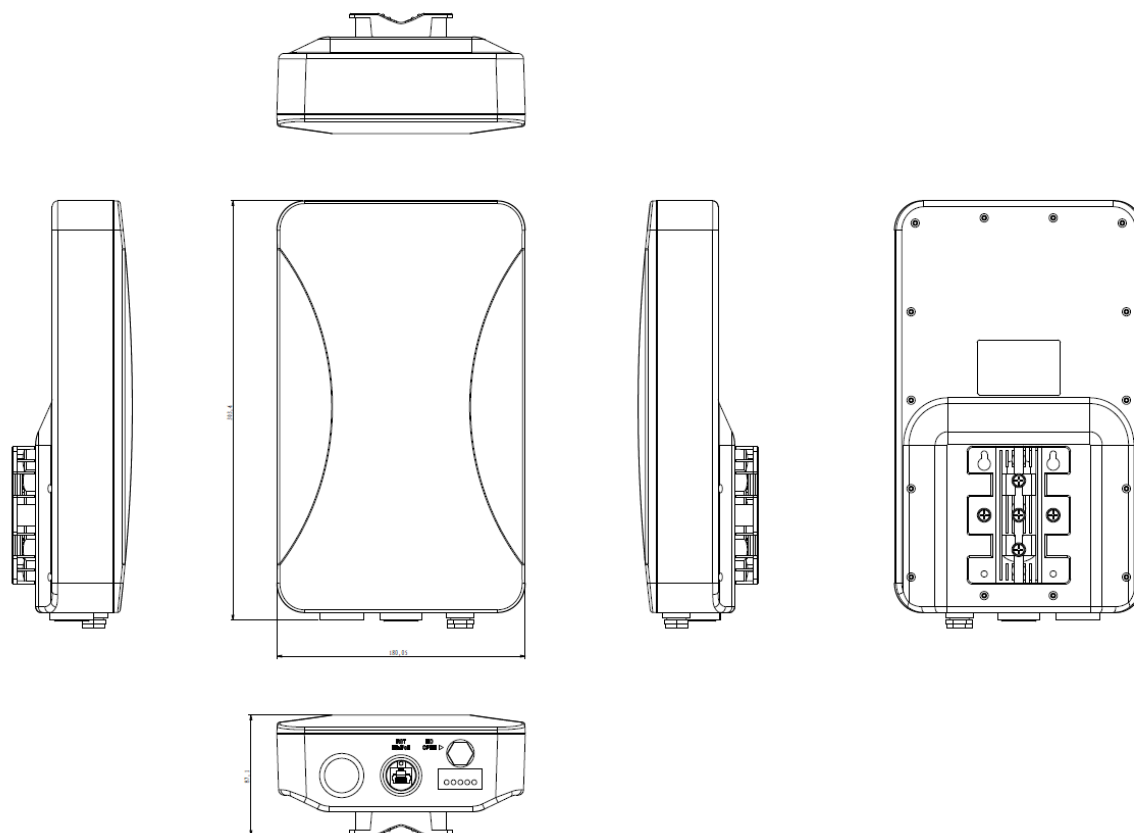
|                        |                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------|
| Wireless functionality | SSID broadcasting                                                                                  |
|                        | SSID number: 4(2.4GHz) +4 (5GHz), Chinese SSID is supported                                        |
|                        | Disable the SSI function                                                                           |
|                        | Wireless encryption: OPEN, WPA/WPA2PSK-TKIPAES, WPA3PSK-TKIPAES                                    |
|                        | Wireless MAC address filtering: supports white list                                                |
|                        | Spectrum navigation (5G priority)                                                                  |
|                        | WiFi is periodically turned off                                                                    |
|                        | User isolation: isolation between wireless networks, isolation within AP                           |
|                        | Transmit power Settings                                                                            |
|                        | Limit the number of wireless clients                                                               |
|                        | QoS: WMM                                                                                           |
| Network functions      | Connection mode: static address, obtained from the management server and obtained from the gateway |
|                        | DHCP Server: It can be an internal DHCP server or an external DHCP server                          |
|                        | Cloud platform server                                                                              |
|                        | Firewall function                                                                                  |
|                        | PPPOE function: Supports PPPOE dialing function                                                    |
| device management      | Backup configuration information                                                                   |
|                        | Restore configuration information                                                                  |
|                        | factory data reset                                                                                 |
|                        | Restart includes periodic restart and immediate restart                                            |
|                        | firmware upgrade                                                                                   |
|                        | Time management includes system display time and time synchronization                              |
|                        | system log                                                                                         |
|                        | Fat and thin AP switching function                                                                 |

## Interface diagram



---

## Product size diagram



## Annexed list of items

- Host \* 1
- Clamps \* 2
- Waterproof head \*2
- Instructions \* 1
- Certificate of conformity and warranty card \*1