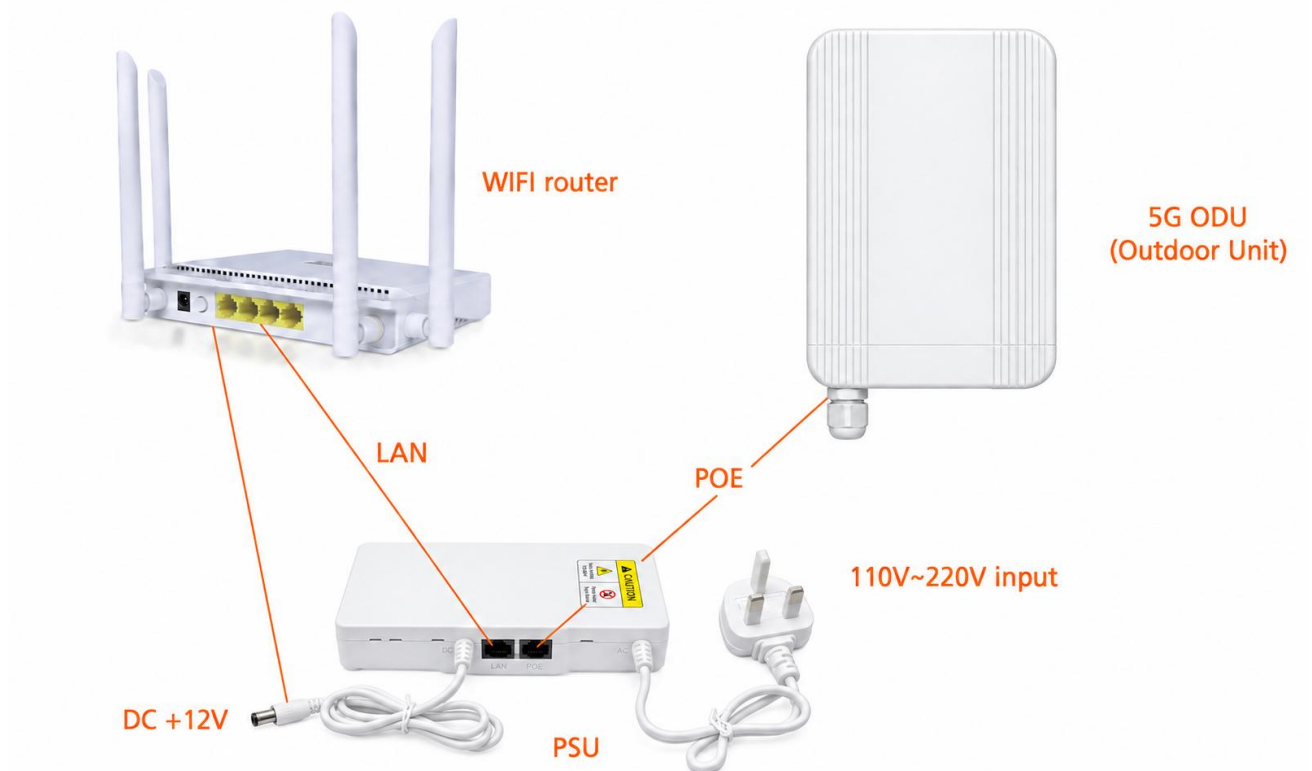


Honlly 5G ODU+Indoor Router Solution

HL6300R 5G Outdoor CPE + Indoor WIFI 6 AX1800 Router kit + mini UPS



Product Description

HL6300R Cellular 4G 5G Outdoor CPE and indoor WIFI 6 AX1800 Router Setup and developed based on latest 4G LTE/5G Chipset and WIFI 6 AX1800 Solutions . Providing stable and high-speed wireless broadband access for home and business users.

Feature of 5G Outdoor Unit

- ◆ CPU. ARM Cortex-A55, quad core, up to 2.0 GHz
- ◆ Supports 4G LTE/5G global frequency bands and standard.
- ◆ 5G NSA. Max 5.47Gbps (DL)/825Mbps (UL)
- ◆ 5G SA. Max maximum 4.67Gbps (DL)/1.25Gbps (UL)
- ◆ LTE. Max 1.6Gbps (DL)/211Mbps (UL)
- ◆ WCDMA. Max 42.2Mbps (DL)/11Mbps (UL)



- ◆ One 2.5Gbps Ethernet port (Power Over Ethernet)
- ◆ Built-in OpenWRT 21.02 operating system. Supports user define function development.
- ◆ Watch Dog function automatically recovers, maintains the data link permanently online.
- ◆ POE input DC +24V to +48 VDC
- ◆ Supports Central Management NOC. User friendly web interface for user interaction.
- ◆ Supports local web UI and remote FOTA update firmware.
- ◆ IP 65 Industrial design for harsh environment. ABS fireproof plastic material shell.

5G ODU Technical Specification

Cellular feature	
3G/4G/5G data connectivity	It provides data connectivity on 5G NR SA and NSA, LTE-FDD, LTE-TDD, DC-HSDPA, HSPA+, HSDPA, HSUPA and WCDMA networks.
3G/4G/5G Frequency bands	5G NR: • 5G Sub-6: n1/3/5/7/8/20/28/38/40/41/77/78 • LTE FDD: B1/3/5/7/8/20/28/32 • LTE TDD: B38/40/41/42/43 • WCDMA: B1/5/8 • MIMO: 5G NR: DL 4×4 MIMO: n1/3/7/38/40/41/77/78 - UL 2×2 MIMO: n40/41/77/78 - LTE: DL 4×4 MIMO: B1/3/7/28/32/38/40/41/42/43 Remarks. More frequency bands, please feel free to contact us.
3G/4G/5G Data rates	◆ 5G NSA. Max 5.47Gbps (DL)/825Mbps (UL) ◆ 5G SA. Max maximum 4.67Gbps (DL)/1.25Gbps (UL) ◆ LTE. Max 1.6Gbps (DL)/211Mbps (UL) ◆ WCDMA. Max 42Mbps (DL)/ 11.5Mbps (UL)
5G NR features	◆ 3GPP Release 16 ◆ Supported modulations: - Uplink: $\pi/2$-BPSK, QPSK, 16QAM, 64QAM and 256QAM, 200MHz 2 UL CA - Downlink: QPSK, 16QAM, 64QAM and 256QAM, 200MHz 2 DL CA ◆ Supported SCS: 15 kHz and 30 kHz ◆ Option 3x, 3a, 3 and Option 2
LTE features	◆ 3GPP Release 16 ◆ LTE Category: DL Cat 19/ UL Cat 18 ◆ Supported modulations. - Uplink: QPSK, 16QAM and 64QAM and 256QAM, 40MHz 2 ULCA - Downlink: QPSK, 16QAM and 64QAM and 256QAM, 100MHz 5 DLCA, ◆ Supports 1.4/3/5/10/15/20 MHz RF bandwidth
UMTS features	◆ Compliant with 3GPP Rel-8 DC-HSDPA, HSPA+, HSDPA, HSUPA and WCDMA ◆ Modulations: - DL: QPSK, 16QAM and 64QAM - UL: BPSK, QPSK, 16QAM

3G/4G/5G Receiving Sensitivity	5G NR-FDD n1(20MHz), -94.3 dBm 5G NR-FDD n3(20MHz), -94.5 dBm 5G NR-FDD n5(10MHz), -95.5 dBm 5G NR-FDD n7(20MHz), -94.7 dBm 5G NR-FDD n8(20MHz), -96.2 dBm 5G NR-FDD n20(20MHz), -96.9 dBm 5G NR-FDD n28(20MHz), -96 dBm 5G NR-TDD n38(20MHz), -93.4 dBm 5G NR-TDD n40(20MHz), -93.8 dBm 5G NR-TDD n41(100MHz), -85.8 dBm 5G NR-TDD n77(100MHz), -87.4 dBm
	LTE-FDD B1(10MHz) , -97.3 dBm LTE-FDD B3(10MHz) , -97.6 dBm LTE-FDD B5(10MHz) , -100.3 dBm LTE-FDD B7(10MHz) , -97.1 dBm LTE-FDD B8(10MHz) , -99.7 dBm LTE-FDD B20(10MHz) , -100.5 dBm LTE-FDD B28(10MHz) , -99.7 dBm LTE-FDD B32(10MHz) , -97.3 dBm LTE-TDD B38(10MHz) , -95.7 dBm LTE-TDD B40(10MHz) , -96.6 dBm LTE-TDD B41(10MHz) , -95.7 dBm LTE-TDD B42(10MHz) , -96.8 dBm
	WCDMA B1 , -109 dBm WCDMA B5 , -111 dBm WCDMA B8 , -112dBm
3G/4G/5G Transmitting Power	◆ Class 3 (24dBm+1/-3dB) for WCDMA bands. ◆ Class 3 (23dBm±2dB) for LTE-FDD bands. ◆ Class 3 (23dBm±2dB) for LTE-TDD bands. ◆ Class 3 (23dBm±2dB) for 5G NR bands. ◆ Class 2 (26dBm±2dB) for LTE B38/B40/B41/B42 bands. ◆ Class 2 (26dBm±2dB) for 5G NR n41/n77/n78 bands .
Antennas	4 * 4G/5G internal antenna, 4*4 MIMO, with 50 Ω impedance.
SIM card feature	
SIM card	Supports 1* SIM slot (4FF,Nano SIM card), 1.8V / 3V . Or 1* eSIM card.
Hardware feature	
CPU	ARM Cortex-A55, quad core, up to 2.0 GHz, Unisoc V620
Hardware interface	1* LAN 2.5G Ethernet port. 1*USB2.0 port
Watchdog	Built-in watchdog feature.
Key button	Reset
Protection level	Ethernet port , Contact electric shock, +/-4KV, air discharge: +/-8KV.
LED status indicator	PWR ,SYS, Net, LAN
Standard Power	POE power supply input. DC 20V/1A
Power Supply	POE power supply input. DC +20V/1A~48V/0.5A
Peak current	Max current. 1A @20V
Working current	Max 700 mA, 16.8W @20 V

Power Consumption	Idle. 60mA, 1.44W @20 V Data link. Max 225 mA, 5.4W @20 V Peak. Max 360mA , 8.64W @20V
Temperature	Operating Temperature -30 °C ~+70°C, Storage Temperature -35 °C ~+75°C
Environment humidity	5%~95% ,no condensation.
Ingress Protection	IP65
Housing	ABS plastic material, white shell.
Dimensions	190mm * 141mm *40mm
Installations	Wall or pole mounted.
Weight	480g
Software feature	
Parameter settings	Supports automatic detection of MNC and MCC parameters of global operators. Built-in global operator APN, user name, password and other network parameters. At the same time, manual setting of network parameters is supported.
Dial method	After the device is powered on, the system automatically dials up to connect to the network.
Protocol	Supports PPTP,L2TP,TCP,UDP,DHCP,HTTP,TR-069,HTTPS,SSH etc protocols.
Routing	Supports static routing, multiple routing tables.
Multiple APN	Supports multiple APN access network.
System Assurance	Supports system automatic detection mechanism, automatic recovery of system abnormality or crash.
Data Link Assurance	Built-in link maintenance and self-recovery mechanism.
Firewall	Support flexible access control of TCP, UDP, ICMP packets. Supports port Mapping, NAT etc feature.
Firmware update	Supports local WebUI and remote OTA update firmware.
Embedded system	OpenWRT 24.10
MONITORING & MANAGEMENT	
Web GUI	HTTP, Firmware Upgrade
Command Line Interface	SSHv2
Management protocol	Support TR069,TR181 remote management protocols

Feature of WiFi 6 AX1800 Indoor Unit

- ◆ Dual-Band Gigabit Router, Seamless 2.4GHz + 5GHz connectivity
- ◆ Up to 1800Mbps with 1201Mbps@5GHz and 574Mbps@2.4GHz.
- ◆ 1 * GE WAN, 3 * GE LAN ports for high-speed wired Internet.
- ◆ Protects network security with up to WPA2/WPA3-PSK MIX.
- ◆ Support IPV4 / IPV6
- ◆ Easy to set up, easily manage.





- ◆ Compatible with Mesh WiFi system for seamless roaming and muti floor WIFI covera

WiFi6 Router Technical Specifications

Hardware Parameters	
User Interface	4*10/100/1000Mbps auto adaptive Ethernet interface , RJ45 connectors (1*WAN, 3*LAN)
WLAN Interface	Compliant with IEEE802.11b/g/n/ac/ax 1201 Mbps on 5GHz and 574Mbps on 2.4 GHz External 2.4G 5dBi rubber rod antennas * 2 External 5G 5dBi rubber rod antennas * 2 Maximum number of connected devices:128
Features	
Management	WEB/Telnet/TR-069/SSH/CLI Management
Multicast	Support IGMP Snooping(IGMPv1/v2/v3) Support IGMP Proxy Support MLD Snooping(MLDv1, MLDv2) Support MLD Proxy Support Fast leave
Wireless	Wi-Fi 6: 802.11a/n/ac/ax 5GHz & 802.11b/g/n/ax 2.4GHz WiFi Encryption:WPA/WPA2/WPA3 Support MU-MIMO & OFDMA Support Dynamic QoS Support 1024-QAM Support WMM Beamforming & Beamsteering
L3 Features	Support IPv4, IPv6 and IPv4/IPv6 dual stack Support DHCP/PPPOE/Statics Support Static route,NAT Support DMZ, ALG,UPnP Support Virtual Server Support NTP (Network Time Protocol) Support DNS / DHCP
Security	Support local access control Support IP address filtering Support URL filtering Support Anti-DDoS attack function Support Parental control function
Hardware Parameters	
Dimension	195mm*125mm*35mm (L*W*H)
Net weight	250g

Power adapter	DC 12V, 1A
Power supply	≤12W
Interface	1GE WAN+3GE LAN ports
Indicators	SYS
Button	Reset/WPS



PSU backup power supply

Item	Performance Parameters
Input power supply	AC 110~220V 50/60Hz
AC Power Plug	Customer specified
AC cable length	0.5m
Power supply output -1	DC 12.0V/ 1A
DC cable length	0.8m
Power supply output -2	POE output 20.0V/1A, RJ45 connector
LAN port	1*GE LAN port , RJ45 connector
Battery capacity	5000mAh
Battery Rated Power	18.5Wh
PSU Weight	About: 440g
Operating Ambient temperature	0 ~ 45℃
Storage Temperature	1 month: -10℃ ~45℃
	6 months: -10℃ ~35℃
	12 months: 0℃ ~25℃