**HiR204 4G CAT 6,CAT 12 indoor router**

(**V1.03**)

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EX-LINK HIR204 wireless router is a wireless communication product developed based on 4G network requirements. Support 4G LTE global frequency band. Support 4G LTE CAT 6 or CAT 12 high speed access to the Internet. It can realize the maximum downlink bandwidth of 300Mbps~600Mbps and the maximum uplink bandwidth of 50Mbps~150Mbps. It supports 2 Gigabit Ethernet ports, providing stable and high-speed wireless broadband access for home and business users. Support for WIFI 2.4GHz/5GHz dual-band function to meet the access and sharing needs of more than 60 users' WIFI hotspots.

**TYPICAL APPLICATION**





**Kiosk**



**Industrial Automation**



**Transportation**





**ATM**





Video

**Surveillance**

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**Broadband**



**HiR204**

**Indoor CPE**





**Wi-Fi Client**





**3G/4G LTE**



**WAN/LAN**





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**Management**

**Platform**



**Shenzhen Ex-link Technology Co.,LTD**

**Website：**[www.ex-link.cn](http://www.ex-link.cn/) , **TEL:** +86-755-86111909, **FAX:** +86-755-86111900 , **E\_mail:** sales@ex-link-cn

**Product features.**

◆ Power supply. DC +12V/1A .

◆ Supports 2\*2 MIMO or 4\*4 MIMO internal antenna or external antenna.

◆ Wireless Mobile Broadband 3G / 4G LTE connection. Support 3G/4G LTE global frequency bands.

◆ System crashes and automatically recovers. The system automatically maintains the data link and is permanently online.

◆ Supports Multiple VPN tunnels for data encryption .

◆ Simple and beautiful, fashionable shell.

**Easy to use and easy maintenance**

◆ User friendly web interface for user interaction.

◆ Supports Remote Management Platform.

◆ Supports local web UI and remote FOTA update firmware.

**Operating system**

◆ Built-in OpenWRT 18.06 operating system. Support user secondary application development.

**Specifications.**

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| **Cellular feature** |
| **3G/4G LTE****data connectivity** | It provides data connectivity on LTE-FDD, LTE-TDD, DC-HSDPA, HSPA+, HSDPA, HSUPA and WCDMA networks. |
| **3G/4G LTE** **Frequency bands** | **Version E.** LTE-FDD: B1/B3/B5/B7/B8/B20/B28/B32  LTE-TDD: B38/B40/B41/B42(**Optional**) /B43(**Optional**) WCDMA: B1/B3/B5/B8**Verison A.**  LTE-FDD: B2/B4/B5/B7/B12/B13/B14/B25/B26/B29/B30/B66/B71  LTE-TDD: B41/B48**Version LA.**  LTE-FDD: B2/B4/B5/B7/B8/B28/B66  LTE-TDD: B42(**Optional**) /B43(**Optional**)WCDMA: B2/B4/B5/B8 **Version GL.**  LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 LTE-TDD: B34/B38/B39/B40/B41/B42/B43/B46 (LAA)/B48 (CBRS) WCDMA: B1/B2/B3/B4/B5/B6/B8/B19 **Remarks. More Bands Demands please contact with us.** |
| **3G/4G LTE** **Data rates** | **4G LTE--CAT 6** LTE-FDD Max 300M(DL) , Max 50Mbps (UL)  LTE-TDD Max 226M (DL) , Max 28Mbps (UL). **4G LTE-CAT 12**LTE-FDD. Max 600Mbps (DL)，Max 150Mbps (UL) . LTE-TDD. Max 430Mbps (DL)，Max 90Mbps (UL).**HSPA+.**DL 42Mbps, UL 11.2Mbps.**WCDMA.**DL 384Kbps, UL 384Kbps |
| **3G/4G LTE****Transmitting Power** | ◆ Class 3 (23 dBm±2 dB) for LTE-TDD bands◆ Class 3 (23 dBm±2 dB) for LTE-FDD bands◆ Class 3 (24 dBm+ 1/-3 dB) for WCDMA bands |
| **3G/4G LTE****Receiving Sensitivity** | WCDMA B1 , -106.7 dBmWCDMA B2 , -104.7 dBmWCDMA B3 , -103.7 dBmWCDMA B4 , -106.7 dBmWCDMA B5 , -104.7 dBmWCDMA B6 , -106.7 dBmWCDMA B8 , -103.7 dBmWCDMA B19 , -106.7 dBmLTE-FDD B1(10MHz) , -96.3 dBmLTE-FDD B2(10MHz) , -94.3 dBmLTE-FDD B3(10MHz) , -93.3 dBmLTE-FDD B4(10MHz) , -96.3 dBmLTE-FDD B5(10MHz) , -94.3 dBmLTE-FDD B7(10MHz) , -94.3 dBmLTE-FDD B8(10MHz) , -93.3 dBmLTE-FDD B12(10MHz) , -93.3 dBmLTE-FDD B13(10MHz) , -93.3 dBmLTE-FDD B14(10MHz) , -93.3 dBmLTE-FDD B17(10MHz) , -93.3 dBmLTE-FDD B18(10MHz) , -96.3 dBmLTE-FDD B19(10MHz) , -96.3 dBmLTE-FDD B20(10MHz) , -96.3 dBmLTE-FDD B25(10MHz) , -92.8 dBmLTE-FDD B26(10MHz) , -93.8 dBmLTE-FDD B28(10MHz) , -94.8 dBmLTE-FDD B30(10MHz) , -95.3 dBmLTE-FDD B32(10MHz) , -96.3 dBmLTE-FDD B66(10MHz) , -95.8 dBmLTE-FDD B71(10MHz) , -94.3 dBmLTE-TDD B38(10MHz) , -96.3 dBmLTE-TDD B39(10MHz) , -96.3 dBmLTE-TDD B40(10MHz) , -96.3 dBmLTE-TDD B41(10MHz) , -94.3 dBmLTE-TDD B42(10MHz) , -95 dBmLTE-TDD B43(10MHz) , -95 dBmLTE-TDD B46(20MHz) , -88.5 dBmLTE-TDD B48(10MHz) , -95 dBm |
| **LTE features** | **CAT 6 version.**◆ Supports 3GPP Rel-12 CAT 6 FDD and TDD◆ Supports uplink QPSK and 16 QAM modulation.◆ Supports downlink QPSK , 16 QAM and 64 QAM.◆ Supports 1.4MHz to 40MHz (2 CA) RF bandwidth.**CAT 12 version.**◆ Supports 3GPPRel-12 CAT 12 FDD and TDD.◆ Supports uplink QPSK ,16 QAM and 64 QAM modulation.◆ Supports downlink QPSK , 16 QAM ,64 QAM and 256 QAM.◆ Supports 1.4MHz to 60MHz (3 CA) RF bandwidth. |
| **UMTS features** | ◆ Supports 3GPP Rel-9 DC-HSDPA,DC-HSUPA,HSPA+,HSDPA,HSUPA and WACDMA◆ Supports QPSK ,16 QAM and 64 QAM modulation. |
| **Antennas** |  Supports 2\*2 MIMO or 4\*4 MIMO internal antenna or external antenna with 50 Ω impedance. |
| **SIM card feature** |
| **SIM card** | Supports 1\* SIM slots, 1.8V / 3V . Or 1\* eSIM card. ( **Optional** ) |
| **Hardware feature** |
| **CPU** | MTK7621A, MIPS1004KC, 880Mbps,Dual-core. |
| **MEMORY** | FLASH 16MByte, DDR3 64 MByte |
| **Hardware interface** | 1\*WAN/1\* LAN gigabit Ethernet port. 1\*USB2.0 port.1\*RJ11 telephone port,VOLTE (**Optional**). |
| **Watchdog** | Built-in watchdog feature. |
| **Key button** | Power,Reset,WPS |
| **Protection level** | Ethernet port , Contact electric shock, +/-4KV, air discharge: +/-8KV. |
| **LED Indicator** | PWR ,WIFI, Net, WAN, LAN |
| **Standard Power** | DC input. DC +12V/1A |
| **Power Supply** | DC input. DC +9/1.5A~12V/1A |
| **Peak current** | Max current. 1A/12V |
| **Working current** | Max 360 mA,4.32W @12 V |
| **Power Consumption** | **Idle.** 80mA, 0.96W @12 V **Data link.**  Max 360 mA, 4.32W @12 V**Peak.** Max 470mA , 5.64W @12V |
| **Temperature** | Operating Temperature 0ºC ~ +50ºC, Storage Temperature -10ºC ~ +60ºC |
| **Environment humidty** | 5%~95% ,no condensation. |
| **Ingress Protection** | IP30 |
| **Housing** |  ABS Plastic shell |
| **Dimensions** | 155mm \* 125mm \* 36mm |
| **Installations** | Desktop mounted. |
| **Weight** |  219g |
| **Wi-Fi** |
| **WLAN** | ◆ IEEE 802.11b/g/n/ac.◆ Supports 20MHz,40MHz,80MHz in 5GHz band, and 20MHz,40MHz bandwidth in 2.4GHz band.◆ Max bandwidth 300Mbps in 2.4GHz band. Max bandwidth 867Mbps in 5GHz band. |
| **Wireless Mode**  | Access Point (AP), Client  |
| **WLAN Speed**  | 300 Mbps @2.4GHz, 867Mbps @5GHz. |
| **Wireless Security**  | Supports WPA, WPA2,WPAI, WEP, TKIP encryption. |
| **Frequency Bands**  | 2.4 GHz/5GHz |
| **WIFI transmit power** | **2.4GHz Tx power.** TX CCK, 11Mbps @ -20dBmHT40,MCS 8 @ -20dBmHT40,MCS 15 @ -17dBm**5GHz Tx power.**6Mbps OFDM @ -19.5dBm54Mbps OFDM @ -18dBmHT20,MCS 0 @ -18.5dBmHT20,MCS 7 @ -17dBmHT40,MCS 0 @ -18.5dBmHT40,MCS 7 @ -17dBmVHT80,MCS 0 @ -18.5dBmVHT80,MCS 9 @ -16dBm |
| **WIFI   Rx Sensitivity** | **2.4GHz Rx sensitivity.** 1Mbps CCK @ -98dBm2Mbps CCK @ -94dBm5.5Mbps CCK @ -92dBm11Mbps CCK @ -89dBm**5GHz Rx sensitivity.**6Mbps OFDM @ -93.5dBm9Mbps OFDM @ -91.5dBm12Mbps OFDM @ -91dBm18Mbps OFDM @ -88.5dBm24Mbps OFDM @ -84.5dBm36Mbps OFDM @ -82dBm48Mbps OFDM @ -77dBm54Mbps OFDM @ -76dBm |
| **Antennas**  | 2\*2 MIMO internal antennas. |
| **WIFI hotspot sharing** | Supports more than 60 users to share WIFI access to the Internet. |
|   **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,IPSEC VPN,TCP,UDP,DHCP,HTTP,DDNS,TR-069,HTTPS,SSH,SNMP etc protocol. |
| **Routing** | Supports static routing, multiple routing tables. |
| **Bridge** | Supports 4G/5G bridge feature. |
| **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 data link maintenance and self-recovery mechanism. |
| **Firewall**  | Supports flexible access control of TCP, UDP, ICMP packets. Supports port Mapping, NAT etc feature. |
| **DDNS**  | Supported some service providers, others can be configured manually. |
| **Firmware update** | Supports local WebUI and remote OTA update firmware. |
| **VLAN** | Supports VLAN feature. |
| **Embedded system** | **OpenWRT 18.06** |
| **Application development** |  Supports secondary development of application functions based on our device motherboard software. |
| **VPN**  |  |
| **VPN Feature** | Supports OpenVPN, IPSEC VPN,PPTP,L2TP etc VPN feature. |
| **MONITORING & MANAGEMENT** |
| **Web GUI**  | HTTP, Firmware Upgrade  |
| **Command Line Interface** | SSHv2 ,Telnet. |
| **Management platform**  | Remote Management Platform |



**Dimensions.**



