

H8952

LTE IoT Router



Overview

The H8952 is a newly upgraded LTE IoT router. It will continue to provide incredible performance as its predecessor H8951, while providing more features by upgrading with dual SIM, remote access, cloud management, VPN and SD-WAN. It provides excellent wireless communication solution to customer by connecting their end devices towards their business success. It features integrated RS-232 and RS-485 serial interfaces, offering industry-leading cost-effectiveness for industrial IoT applications. Wi-Fi station and Ethernet WAN can also be configured to help you build up different network topologies. Plus Links auto-failover, VPN data encryption, and multi-VPN tunnel backup mechanism, giving you a secure and extremely reliable networking solution.

Highlights



Always-online Connectivity

4G/WiFi/Ethernet can be configured as link-backup mode for Internet auto-failover



Industry Demanded Stability

Hardware watchdog & software defined auto-recovery mechanism in HongdianOS



Data Transmission Security

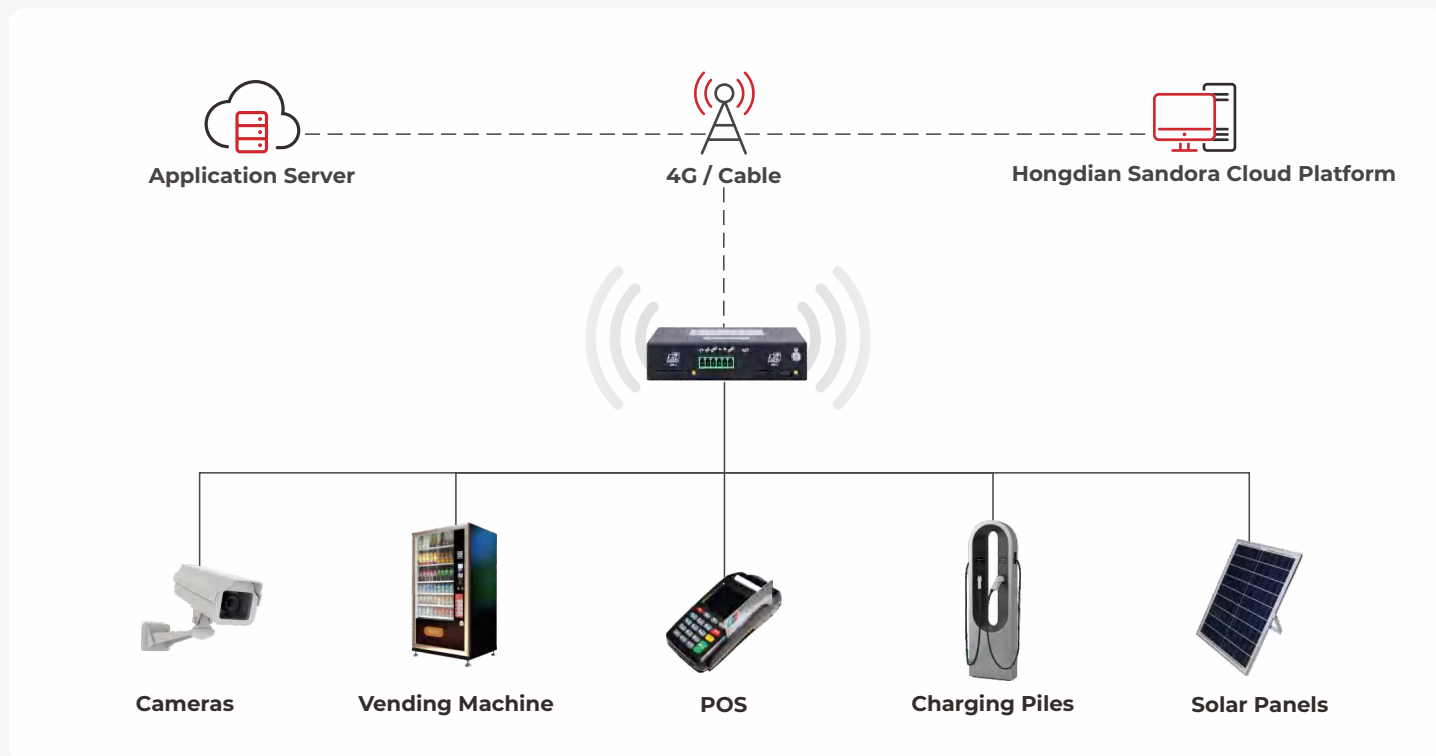
Advanced VPN protocols integrated, provide secure M2M communication network



Rugged Industrial Design

- Wide temperature & voltage input range
- Immunity to interference and low electromagnetic emissions

Topology diagram



Automated Parcel Locker



Vending Machine



Smart Charging Pile



Solar Energy

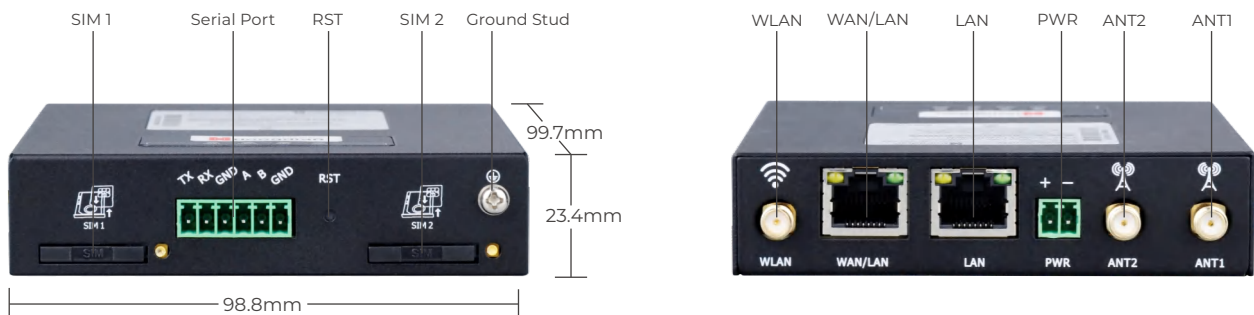
Specification

| Hardware | | | |
|---------------------------|---------------------------------|------------------------|-----------------------|
| CPU | MIPS 24Kc 580MHz | | |
| RAM | 128MB | FLASH | 16MB |
| Cellular Interface | | | |
| Modem | 1 × LTE Cat4 | SIM | 2 × Mini SIM (2FF) |
| Number of Antennas | 2 | Connector | SMA-K |
| Ethernet Interface | | | |
| Number of Ports | 2 × 10/100 Mbps, Ethernet | Configuration | 1 × WAN/LAN + 1 × LAN |
| Wireless Interface | | | |
| Standards | 802.11b/g/n, AP or station mode | Frequency Bands | 2.4 GHz |
| Speed | 150Mbps | Security | WEP, WPA, WPA2 |
| Encryption | 64/128 AES, TKIP | Antennas | 1 |
| Connector | RP SMA-K | | |

Specification

| Serial Interface | | | |
|-------------------------------------|---|-----------------------------|--|
| Type | 1 × RS-232 + 1 × RS-485 serial port | Socket Form | 6-pin pluggable terminal (3.5mm pitch) |
| Signal Definition | RX, TX, GND (RS-232); A+, B-, GND (RS-485) | Baudrate | RS-232 (300-115200bps), RS-485 (300-115200bps) |
| Software | | | |
| Auto Fail-over | Between: Cellular and WAN, Cellular and Wi-Fi (station mode), WAN and Wi-Fi (station mode) | | |
| Network Protocols | PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPS, DNS, ARP, NTP, Telnet, SSH2, DDNS, etc. | | |
| Network | APN, VPDN, VLAN, QoS | | |
| Routing | Static Routing, Policy routing, RIP, OSPF and BGP, etc | | |
| Firewall | NAT, PAT, DMZ, Port Forward IP/Domain/MAC Filter, Access Control List | | |
| Attack Prevention | DDoS prevention, Anti port scanning | | |
| IPsec Encryption | DES, 3DES, AES128, AES192, AES256 | | |
| OpenVPN Encryption | BF-CBC, DES-CBC, RC2-CBC, DES-EDE-CBC, DES-EDE3-CBC, DESX-CBC, RC2-40-CBC, CAST5-CBC, RC2-64-CBC, AES-128-CBC, AES-192-CBC, AES-256-CBC, SEED-CBC | | |
| VPN | PPTP/L2TP/GRE/IPsec/OpenVPN/DMVPN/WireGuard | | |
| Remote Management | HTTP, Telnet, SSH, SMS, SNMP V1/V2/V3, SNMP TRAP, Hongdian Sandora Cloud Platform | | |
| Serial Ports Function | Transparent, Modbus RTU, etc | | |
| Power Supply and Consumption | | | |
| Connector | 2-pin pluggable terminal block | Voltage Input | +5V~+36V DC |
| Power Consumption | Idle: 120mA@12V DC; Data transmission: 180mA@12V DC (LTE Cat4) | | |
| Others | | | |
| Reset Button | Yes | Hardware Watchdog | Yes |
| LED Indicators | 4 indicators for Wi-Fi, DATA, NET, PWR | | |
| Physical Characteristics | | | |
| Ingress Protection | IP30 | Housing & Weight | Metal, about 300g |
| Dimension | 98.8×99.7×23.4(mm) | Installation | Desktop, wall mounting |
| Operating Temperature | -30 ~ +75 °C | Storage Temperature | -40 ~ +85 °C |
| Relative Humidity | ≤ 95%(no condensing) | | |

Appearance











Ordering info

| Part No. | Network | Band | RS-232 | RS-485 | Wi-Fi | Ethernet | Region* |
|---------------------|-----------------|---|--------|--------|---------------------|----------|---------|
| H8952-CS-rW | - | - | 1 | 1 | PR-SMA, 1x1 SISO | 2 | ALL |
| H8952-L4EU-RF-CS-rW | Single LTE Cat4 | LTE-FDD: B1/3/5/7/8/20/28 LTE-TDD: B38/40/41 WCDMA: B1/5/8 GPRS/EDGE: B3/B8 | 1 | 1 | PR-SMA, 1x1 SISO | 2 | EU |
| H8952-L4EU-CS-rW | Single LTE Cat4 | LTE-FDD: B1/3/5/7/8/20/28 LTE-TDD: B38/40/41 WCDMA: B1/5/8 GPRS/EDGE: B3/B8 | 1 | 1 | PR-SMA, 1x1 SISO | 2 | EU |
| H8952-L4LN-CS-rW | Single LTE Cat4 | LTE-FDD: B1/2/3/4/5/7/8/28 LTE-TDD: B40 WCDMA: B1/2/4/5/8 GPRS/EDGE: B2/3/5/8 | 1 | 1 | PR-SMA, 1x1 SISO | 2 | LN |
| H8952-L4NA-CS-rW | Single LTE Cat4 | LTE-FDD: B2/4/5/12/13/14/66/71 WCDMA: B2/4/5 | 1 | 1 | PR-SMA, 1x1 SISO | 2 | NA |
| H8952-L4GL-CS-rW | Single LTE Cat4 | LTE-FDD: B1/2/3/4/5/7/8/12/13/18/19/ 20/25/26/28 LTE-TDD: B38/40/41 UMTS: B1/2/4/5/6/8/19 GSM: B2/3/5/8 | 1 | 1 | PR-SMA, 1x1 SISO | 2 | GL |
| H8952-L4EA-CS-rW | Single LTE Cat4 | LTE-FDD: B1/3/5/7/8/20 LTE-TDD: B38/40/41 WCDMA: B1/5/8 GPRS/EDGE: B3/B8 | 1 | 1 | PR-SMA, 1x1 SISO | 2 | EA |

* Region*: ALL-No Restriction, EU-EMEA (Europe, the Middle East, Africa)/APAC(Non-CN/JP)/Brazil,NA-North America, LN-Latin America / Australia and New Zealand, GL-Global, EA-EMEA (Europe, the Middle East, Africa)/APAC

Packing list

| | | | |
|---|--|--|--|
|  <p>Packing box</p> |  <p>H8952 LTE IoT Router</p> |  <p>4G Magnetic SMA Antenna * Other type antennas available</p> |  <p>Wi-Fi SMA Antenna</p> |
|  <p>RJ45 Cable</p> |  <p>Installation Kit</p> |  <p>Power Adaptor (EU type)</p> |  <p>25mm DIN Rail Kit (Optional)</p> |