

H8923S

5G Wi-Fi Router



Overview

H8923S 5G router provides Global 5G Sub-6GHz SA/NSA network access for mission-critical industrial IoT applications, which often requires a mass data throughput and lower network latency. It is dedicated for mass data such as high-definition video stream backhaul and remote equipment maintenance and it is suitable for smart factories, medical equipment, robot vision, video surveillance, smart energy and other industrial fields.

Highlights



Mass Data Transmission

10 times faster download speed than LTE Cat 4



WLAN Network

Enhanced Wi-Fi capacity and throughput by Wi-Fi 5 and MIMO



Enhancing Data Security

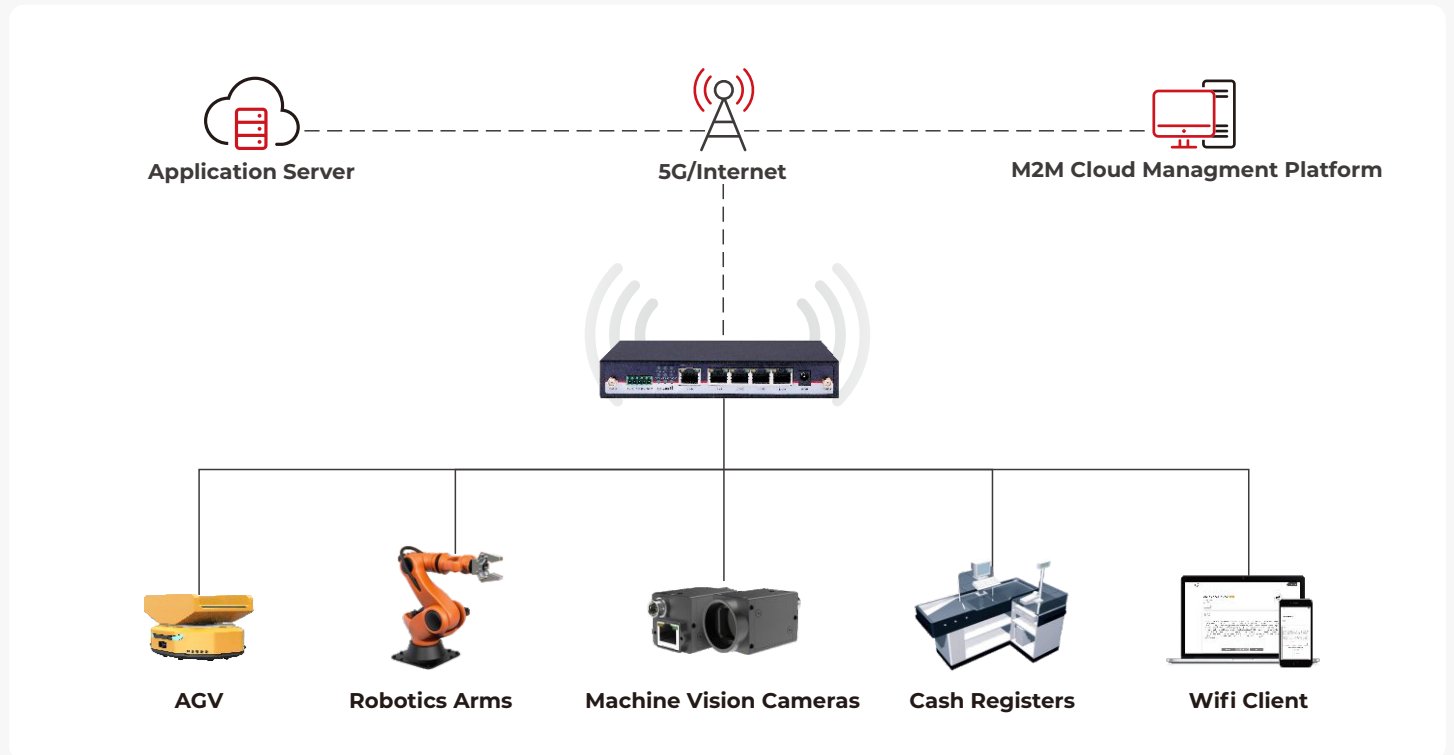
Multiple VPN protocols to ensure data always being protected



Industrial Grade Quality

Wide temperature range and input voltage range

Topology diagram



Smart Factory



Video Surveillance



Machine Vision



Retail Stores

Features



Global 5G Sub-6Ghz Network Access



Enhanced Performance Wi-Fi 5



5 Gigabit Ethernet Ports & Serial Ports

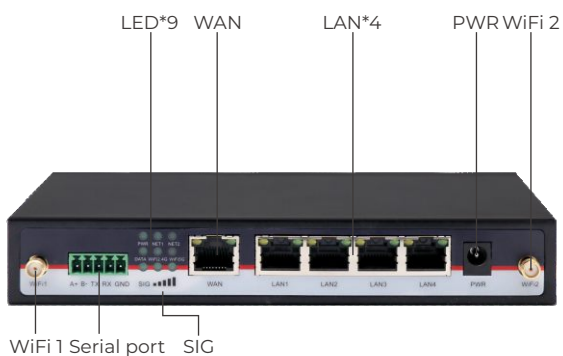


Fasten ROI for 5G Applications

Specification

| | | | |
|-------------------------------------|--|-----------------------------|--------------------------------|
| Hardware | | | |
| CPU | Mediatek MIPS1004Kc 880 MHZ | | |
| RAM | 256MB | FLASH | 32MB |
| Cellular Interface | | | |
| Modem | 1 × 5G NR SA/NSA | SIM | 2 × Mini SIM (2FF) |
| Number of Antennas | 4 (MAIN+AUX) | Connector | SMA-K |
| Ethernet Interface | | | |
| Number of Ports | 5 × 10/100/1000 Mbps, Gigabit Ethernet | Configuration | 4 × LAN + 1 × WAN |
| Wireless Interface | | | |
| Standards | 802.11b/g/n/ac, AP or station mode | Frequency Bands | 2.4 GHz & 5 GHz |
| Speed | 1167Mbps | Security | WPA, WPA2 |
| Encryption | 64/128 AES, TKIP | Antennas | 2 × 2 MIMO |
| Connector | SMA-K | | |
| Serial Interface | | | |
| Type | 1 × RS-232 + 1 × RS-485 serial port | Socket Form | 1 × 5-pin 3.5 mm female socket |
| Signal Definition | RX, TX, GND (RS-232) , A+, B-, GND(RS-485) | ESD | 15KV |
| 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, SMTP, Telnet, SSH, DDNS, etc. | | |
| Routing | Static Routing, Policy routing, RIP, OSPF and BGP, etc | | |
| Firewall | NAT, PAT, DMZ, Port Forward, IP/Domain/MAC Filter, Access Control List | | |
| VPN | PPTP/L2TP/GRE/IPSec/OpenVPN/DMVPN | | |
| Remote Management | HTTP, Telnet, SSH, SMS, SNMP V1/V2/V3, SNMP TRAP, Hongdian Wedora Cloud Platform | | |
| Serial Ports Function | Transparent, Modbus RTU, etc | | |
| Power Supply and Consumption | | | |
| Connector | DC socket | Voltage Input | +9V~+36V DC |
| Power Consumption | Idle: 350mA@12V DC, Data transeiving: 900mA@12V DC | | |
| Others | | | |
| Reset Button | Yes | Hardware Watchdog | Yes |
| LED Indicators | 9 indicators for PWR, NET1, NET2, DATA, LED Indicators WiFi 2.4GHz, WiFi 5GHz, Signal | | |
| Physical Characteristics | | | |
| Ingress Protection | IP30 | Housing & Weight | Metal, 550g |
| Dimension | 177.8×105.2×28.5(mm) | Installations | Desktop, wall mounting |
| Operating Temperature | -30 ~ +75 °C | Storage Temperature | -40 ~ +85 °C |
| Relative Humidity | ≤ 95%(no condensing) | | |

Appearance



Ordering info

| Part No. | Network | Frequencies | Interface | | | | | Certifications (*In progress) | Regions |
|------------------|-----------|---|-----------|---------|------|-------|-------|----------------------------------|---------|
| | | | SIM | WLAN | GigE | RS232 | RS485 | | |
| H8923-NR-ENGL-CS | 5G NSA/SA | NSA/SA: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48/n66/n71/n77/n78/n79 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12(B17)/B13/B14/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 LTE-TDD: B34/B38/B39/B40/B41/B42/B43/B48 LAA B46: (2 × 2 MIMO) UMTS WCDMA: B1/B2/B3/B4/B5/B6/B8/B19 | | | | | | CE*, FCC* | Global |
| | | | 2 | Wi-Fi 5 | 5 | 1 | 1 | | |

* For more detailed information about the frequency or any specific requirement, please contact your sales representative.

Packing list

| | | |
|---|---|---|
|  |  |  |
| Packing Box | H8923S 5G Wi-Fi Router | Power Adaptor |
|  |  |  |
| 5G Antenna | Wi-Fi Antenna | RJ45 Cable |
| | |  |
| | | Installation Kit |