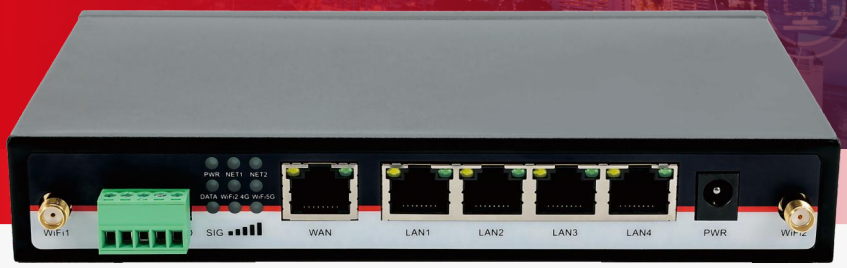
Connecting things
Hongdian

www.hongdian.com

H8923

5G Wi-Fi Router



Overview

H8923 5G Wi-Fi Router provides global 5G Sub-6GHz SA/NSA network access for mission-critical industrial IoT applications, which often require 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 Transmision

10 times faster download speed than LTE Cat 4

WLAN Network

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

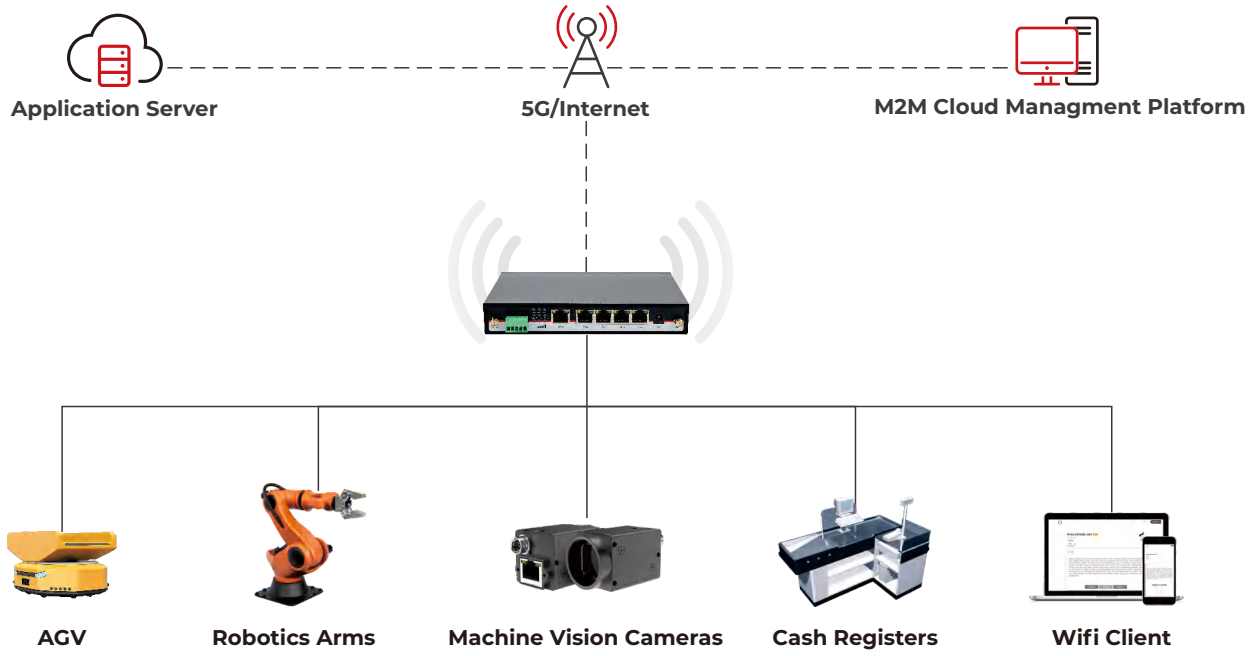
Enhancing Data Security

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

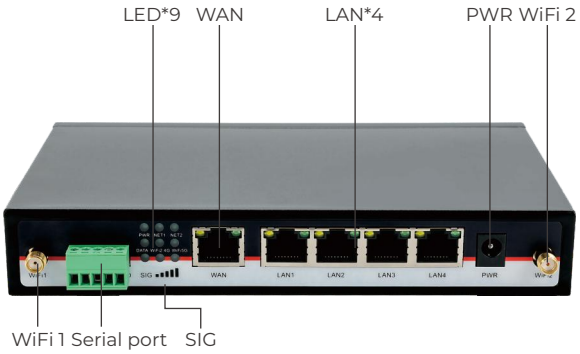
- ***Support LTE Cat6/Cat12 or 5G NR***
- ***Wi-Fi 5, 2×2 MIMO***
- ***Gigabit Ethernet ports***
- ***Support Hongdian Wedora RMS for cloud based management***

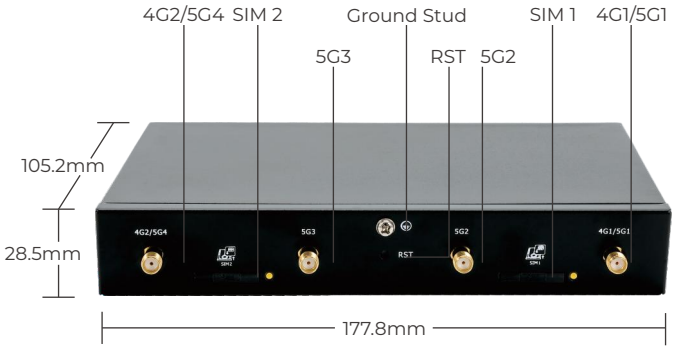
Specification

Hardware			
CPU	MIPS1004Kc 880 MHZ		
RAM	256MB	**FLASH**	32MB
Cellular Interface			
Modem	1 × 5G NR SA/NSA or 2 LTE-A or 1 LTE-A & 1 5G NR SA/NSA		
SIM	2 × Mini SIM (2FF)	**Connector**	SMA-K
Number of Antennas	4		
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**	WEP, WPA, WPA2
Encryption	64/128 AES, TKIP	**Antennas**	2 × 2 MIMO
Connector	SMA-K		
GNSS Interface			
Number of Antennas	1 (only for GPS version)	**Connector**	SMA-K with 50 ohms impedance
GNSS Support	GPS, GLONASS, BeiDou, Galileo(optional)		
Protocol	NMEA 0183	**Cordinate**	WEB UI, RMS
Seiral 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)	**Baudrate**	RS-232 (300-115200bps), RS-485 (300-115200bps)
Software			
Auto Fail-over	Between: 2 Cellulars, Cellulars 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.		
Network	APN, VPDN, VLAN, QoS		
Routing	Static Routing, Policy routing, RIP, OSPF and BGP, etc		
Firewall	NAT, PAT, DMZ, Port Forword IP/Domain/MAC Filter, Access Control List		
Attack Prevention	DDOS prevention, Anti port scanning		
VPN	PPTP/L2TP/GRE/IPSec/OpenVPN/DMVPN/WireGuard		
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		
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 transceiving: 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)		
EMC			
ESD	EN61000-4-2, level2	**RS**	EN 61000-4-3, level2
EFT	EN 61000-4-4, level2	**Surge Protection**	EN 61000-4-5, level2
CS	EN 61000-4-6, level2		

Appearance





Ordering info

Part No.	Network	Frequencies	Interface						Certifications (*In progress)	Regions
			SIM	WLAN	GPS	GigE	RS232	RS485		
H8923-L6GL-CS-WG	LTE Cat6	**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	2	AC600	YES	5	1	1	CE*, FCC*	Global
H8923-D6EA-CS-W2	2 modules LTE Cat6	**4G(LTE-FDD):** B1/B3/B5/B7/B8/B20 **4G (LTE-TDD):** B38/B40/B41 **3G(WCDMA):** B1/B5/B8 **2G:** B3/B8	2	AC1200	-	5	1	1	CE, FCC	Europe, the Middle East, Africa, Korea, Thailand,India, Malaysia
H8923-NREA-CS-W2	5G NSA/SA	**NSA/SA:** n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n75/n76/n77/n78 **LTE FDD:** B1/B3/B5/B7/B8/B20/B28/B32 **LTE TDD:** B38/B40/B41/B42/B43 **WCDMA:** B1/B5/B8	2	AC1200	-	5	1	1	CE*, FCC*	Europe, the Middle East, Africa, Korea, Thailand, India, Malaysia
H8923-NREA-CS-WG	5G NSA/SA			AC600	YES					
H8923-NUEA-CS-W2	5G NSA/SA	**NSA :** n1/n3/n7/n38/n40/n41/n77/n78/n79 **SA :** n1/n3/n7/n8/n20/n28/n38/n40/n41/n77/n78/n79 **LTE FDD :** B1/B2/B3/B4/B5/B7/B8/B20/B28A/B28B/B66 **LTE TDD :** B38/B40/B41 **WCDMA :** B1/B2/B5/B8	2	AC1200	-	5	1	1	CE*, FCC*	Europe, the Middle East, Africa, Korea, Thailand, India, Malaysia
H8923-NRGL-CS-W2	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	2	AC1200	-	5	1	1	CE*, FCC*	Global

* For example, H8923-L6GL-CS-WG, H8923 4G Router, support LTE Cat6, the application area is Global, support RS-232 and RS-485,support Wi-Fi(AC600) and GPS. H8923-NREA-CS-W2, H8923 5G Router, support 5G NSA/SA, the application area is Europe, the Middle East, Africa, Korea,Thailand, India, Malaysia region, support RS-485 and RS-232, support two Wi-Fi antennas(AC1200).

Packing list



Packing Box



H8923 5G Wi-Fi Router



Power adaptor (USA, FCC, UL)
* Other types available



4x5G Antenna



Wi-Fi Antenna



Power Adaptor (EU Type)
* Other types available



GPS Antenna
* Only GPS Version



RJ45 Cable



Installation Kit

Connecting things
Hongdian

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