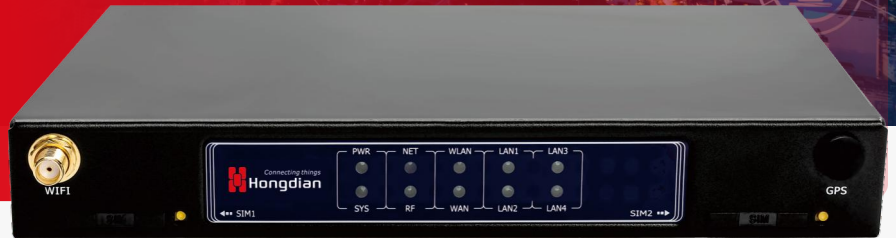


# H8921

## 4G Dual SIM VPN Router



### Overview

H8921 4G Dual SIM VPN Router is designed for critical IoT applications which require advanced connection robustness and data security, especially suitable for smart retails, smart cabinet, point-of-sale, ATM machines, Ring Main Unit, etc. It provides excellent wireless communication experience to customer by connecting their end devices towards their business success. With its seamless internet failover, data encryption feature and multi-VPN tunnel backup mechanism, it will always keep your business safe and transmitting data flow without any interruption.

### Highlights



#### Seamless Cellular Auto-failover

Senseless WAN switching experience by mutual backup of two LTE modems for advanced critical networking mission



#### Enhancing Data Security

Multiple VPN tunnels can be configured as auto link switching mode for software layer failover to ensure data always being protected



#### Various Connection Type

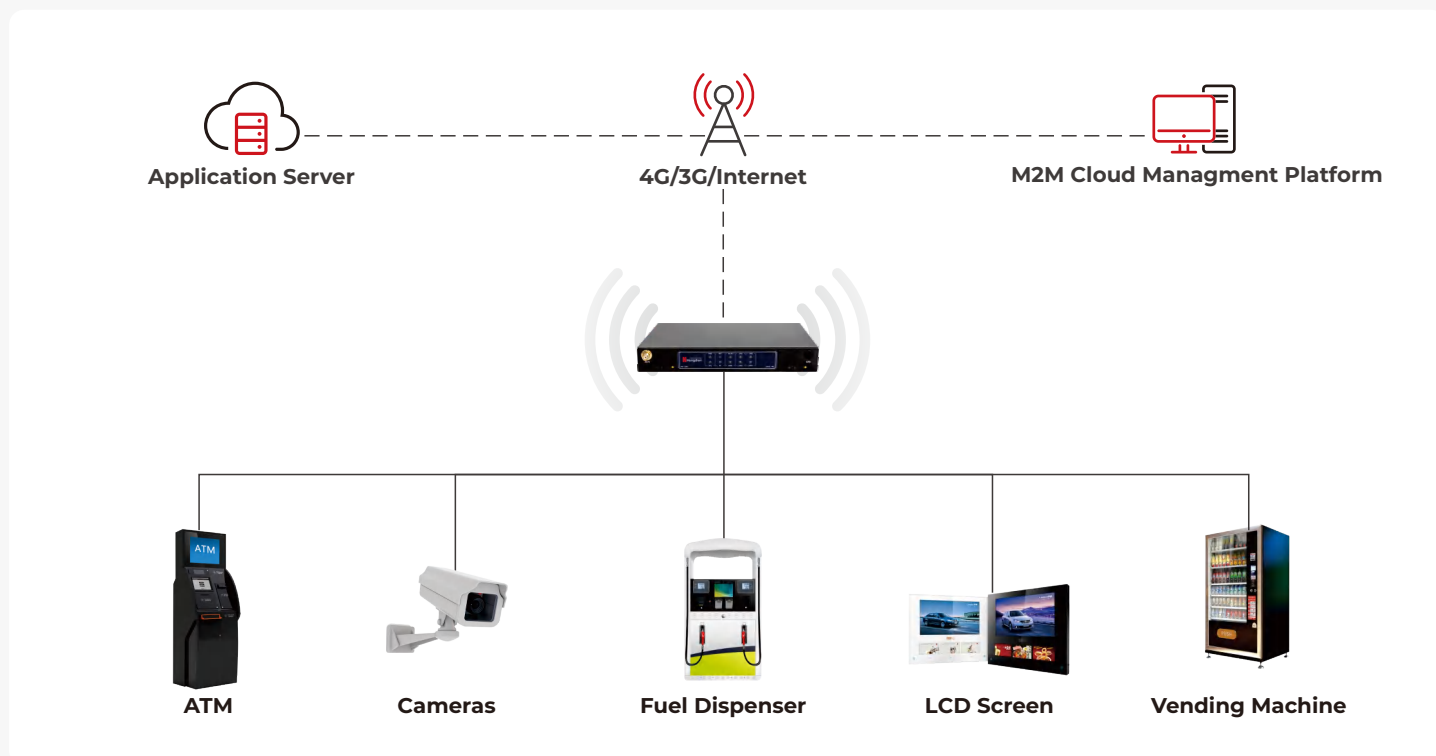
Ethernet ports, Wi-Fi and serial ports provide a gateway for various of data type



#### Customer Trusted Quality

Widely approved by global customer from FBSI and retail industries

## Topology diagram



ATM Machines



Gas Stations



Point of Sale



Smart Retail

## Features



**Support LTE Cat4**



**Dual 4G link backup, Cellular/VPN Auto-failover**



**Rich interfaces for connectivity**



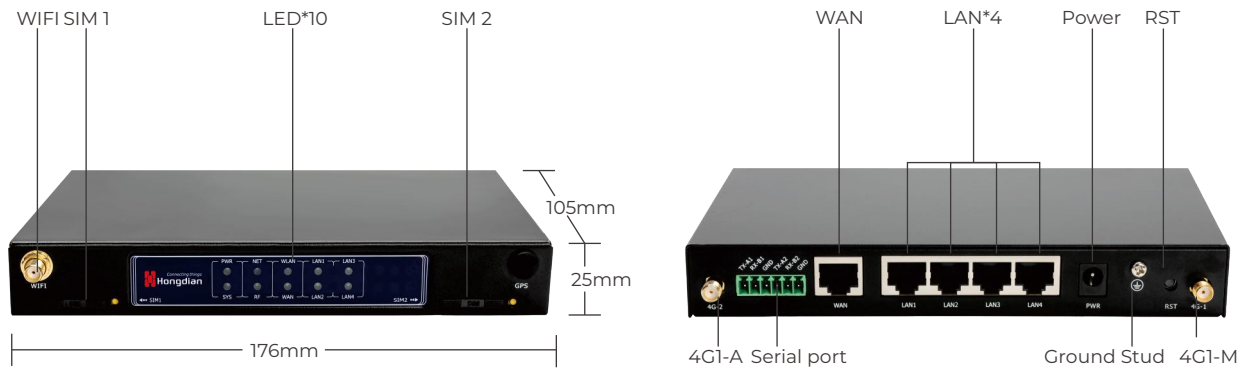
**Support Hongdian Wedora RMS for cloud based management**

# Specification

<b>Hardware</b>			
<b>CPU</b>	MIPS 24Kc 580 MHZ		
<b>RAM</b>	128MB	<b>FLASH</b>	16MB
<b>Cellular Interface</b>			
<b>Modem</b>	1 or 2 LTE Cat4	<b>SIM</b>	2 × Mini SIM (2FF)
<b>Number of Antennas</b>	2	<b>Connector</b>	SMA-K
<b>Ethernet Interface</b>			
<b>Number of Ports</b>	5 × 10/100 Mbps, Ethernet	<b>Configuration</b>	5 × LAN or 4 × LAN + 1 × WAN
<b>Wireless Interface</b>			
<b>Standards</b>	802.11b/g/n, AP or station mode	<b>Frequency Bands</b>	2.4 GHz
<b>Speed</b>	150Mbps	<b>Security</b>	WEP, WPA, WPA2
<b>Encryption</b>	64/128 AES, TKIP	<b>Antennas</b>	1
<b>Connector</b>	RP SMA-K		
<b>GNSS Interface</b>			
<b>Number of Antennas</b>	1 (only for GPS version)	<b>Connector</b>	SMA-K with 50 ohms impedance
<b>GNSS Support</b>	GPS, GLONASS, BeiDou, Galileo(optional)		
<b>Protocol</b>	NMEA 0183	<b>Cordinate</b>	WEB UI, RMS
<b>Seiral Interface</b>			
<b>Type</b>	1 × RS-232 + 1 × RS-485 serial port	<b>Socket Form</b>	1 × 6-pin 3.5 mm female socket
<b>Signal Definition</b>	RX, TX, GND (RS-232) , A+, B-, GND (RS-485)	<b>Baudrate</b>	RS-232 (300-115200bps), RS-485 (300-115200bps)
<b>Software</b>			
<b>Auto Fail-over</b>	Between: 2 Cellualars, Cellular and WAN, Cellular and Wi-Fi (station mode), WAN and Wi-Fi (station mode)		
<b>Network Protocols</b>	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPS, DNS, ARP, NTP, SMTP, Telnet, SSH, DDNS, etc.		
<b>Network</b>	APN, VPDN, VLAN, QoS		
<b>Routing</b>	Static Routing, Policy routing, RIP, OSPF and BGP, etc		
<b>Firewall</b>	NAT, PAT, DMZ, Port Forward, IP/Domain/MAC Filter, Access Control List		
<b>Attack Prevention</b>	DDOS prevention, Anti port scanning		
<b>VPN</b>	PPTP/L2TP/GRE/IPSec/OpenVPN/DMVPN/WireGuard		
<b>Ipssec Encryption</b>	DES, 3DES, AES128, AES192, AES256		
<b>OpenVPN Encryption</b>	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		
<b>Remote Management</b>	HTTP, Telnet, SSH, SMS, SNMP V1/V2/V3, SNMP TRAP, Hongdian Wedora Cloud Platform		
<b>Serial Ports Function</b>	Transparent, Modbus RTU, etc		
<b>Power Supply and Consumption</b>			
<b>Connector</b>	DC socket	<b>Voltage Input</b>	+5V~+36V DC
<b>Power Consumption</b>	Idle: 200mA@12V DC, Data transeiving: 550mA@12V DC		
<b>Others</b>			
<b>Reset Button</b>	Yes	<b>Hardware Watchdog</b>	Yes
<b>LED Indicators</b>	10 indicators for PWR, SYS, WAN, LAN1-LAN4, RF, NET, WLAN		
<b>Physical Characteristics</b>			
<b>Ingress Protection</b>	IP30	<b>Housing &amp; Weight</b>	Metal, 540g
<b>Dimension</b>	176×105×25(mm)	<b>Installations</b>	Desktop, wall mounting

<b>Operating Temperature</b>	-30 ~ +70 °C	<b>Storage Temperature</b>	-40 ~ +85 °C
<b>Relative Humidity</b>	≤ 95%(no condensing)		

## Appearance



## Ordering info

Part No.	Mobile	Band	Region	SIM Slots	Ethernet Ports	Wi-Fi Standard	Wi-Fi MIMO	GPS	RS-232	RS-485
<b>H8921-L4EU-CS-W</b>	LTE Cat4	<b>LTE-FDD:</b> B1/B3/B5/B7/B8/B20/B28 <b>LTE-TDD:</b> B38/B40/B41 <b>WCDMA:</b> B1/B5/B8 <b>GPRS/EDGE:</b> B3/B8	EMEA(Europe, the Middle East, Africa) / APAC (Non-CN/JP) / SA (South America)	2	5	n	1×1	x	1	1
<b>H8921-L4EA-CS-rWG</b>	LTE Cat4	<b>LTE-FDD:</b> B1/B3/B5/B7/B8/B20 <b>LTE-TDD:</b> B38/B40/B41 <b>WCDMA:</b> B1/B5/B8 <b>GPRS/EDGE:</b> B3/B8	EMEA(Europe, the Middle East, Africa) / APAC (Non-CN/JP) / SA (South America)	2	5	n	1×1	Yes	1	1
<b>H8921-L4EA-CS-rW</b>	LTE Cat4	<b>LTE-FDD:</b> B1/B3/B5/B7/B8/B20 <b>LTE-TDD:</b> B38/B40/B41 <b>WCDMA:</b> B1/B5/B8 <b>GPRS/EDGE:</b> B3/B8	EMEA(Europe, the Middle East, Africa) / APAC (Non-CN/JP) / SA (South America)	2	5	n	1×1	x	1	1

## **Packing list**



Packing Box



H8921 4G Dual SIM VPN Router



2\*4G Antenna



Wi-Fi Antenna



GPS Antenna  
\* Only GPS Version



Power Adaptor (EU Type)



RJ45 Cable



Installation Kit