H8922S

4G Dual SIM VPN Router

Overview

H8922S 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 seemless internet failover, data encryption feature and multi-VPN tunnel backup machanism, it will always keep your business safe and transmitting data flow without any interruption.

Highlights

Seemless 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
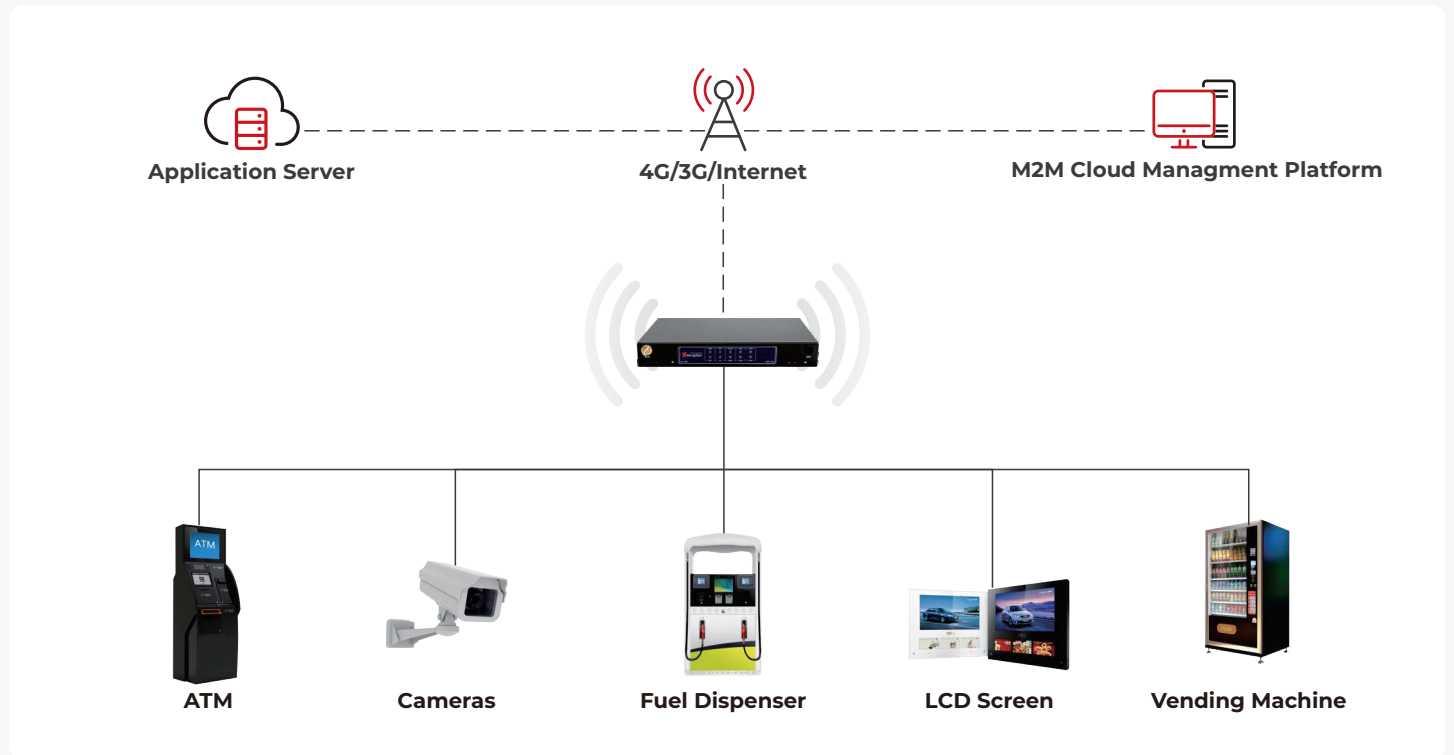
Various Connection Type

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

Application Server

4G/3G/Internet

M2M Cloud Managment Platform

ATM

Cameras

Fuel Dispenser

LCD Screen

Vending Machine

ATM Machines

Gas Stations

Point of Sale

Smart Retails

▎Features

Support LTE Cat4

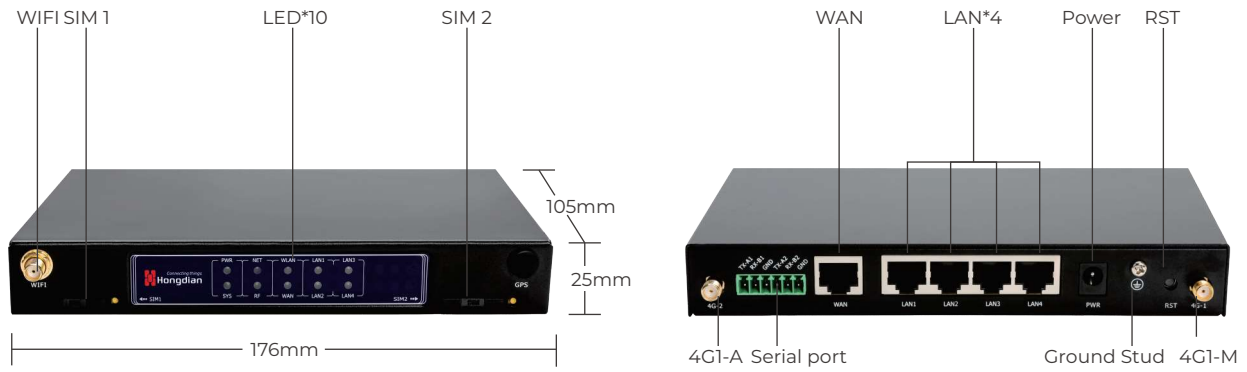**Dual 4G link backup, Cellular/VPN Auto-failover**

Rich interfaces for connectivity

Support Hongdian Wedora RMS for cloud based management

Specification

Hardware

CPU	MIPS 24Kc 580 MHZ		
RAM	128MB	**FLASH**	16MB

Cellular Interface

Modem	1 or 2 LTE Cat4	**SIM**	2 × Mini SIM (2FF)
Number of Antennas	2	**Connector**	SMA-K

Ethernet Interface

Number of Ports	5 × 10/100 Mbps, Ethernet	**Configuration**	5 × LAN or 4 × LAN + 1 × WAN

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	SMA-K		

GNSS Interface

Number of Antennas	1 (only for GPS version)	**Connector**	SMA-K with 50 ohms impedance

Seiral Interface

Type	1 × RS-232 + 1 × RS-485 serial port	**Socket Form**	1 × 6-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: 2 Cellulars, 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 Forword, IP/Domain/MAC Filter, Access Control List
VPN	PPTP/L2TP/GRE/IPSec/OpenVPN/DMVPN/WireGuard
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**	+5V~+36V DC
Power Consumption	Idle: 200mA@12V DC, Data transceiving: 550mA@12V DC		

Others

Reset Button	Yes	**Hardware Watchdog**	Yes
LED Indicators	10 indicators for PWR, SYS, WAN, LAN1~LAN4, RF, NET, WLAN		

Physical Characteristics

Ingress Protection	IP30	**Housing & Weight**	Metal, 540g
Dimension	176×105×25(mm)	**Installations**	Desktop, wall mounting
Operating Temperature	-30 ~ +70 °C	**Storage Temperature**	-40 ~ +85 °C
Relative Humidity	≤ 95%(no condensing)		

Appearance

WIFI SIM 1   LED*10   SIM 2

105mm
25mm
176mm

WAN   LAN*4   Power   RST

4G1-A   Serial port   Ground Stud   4G1-M

Ordering info

Part No.	Network	Frequencies	Interface						Certifications (*In progress)	Regions
			SIM	Ethernet	WLAN	GNSS	RS232	RS485		
H8922S-L4-ENEA-CS	LTE Cat 4	**4G(LTE-FDD):** B1/B3/B5/B7/B8/B20 **4G (LTE-TDD):** B38/B40/B41 **3G:** B1/B5/B8 **2G:** B3/B8	2	5	Wi-Fi 4	N*	1	1	CE, RoHS	Europe, the Middle East, Africa, Korea, Thailand, India, Malaysia
H8922S-2L4-ENEA-CS	2 modules LTE Cat 4									
H8922S-L4-ENNA-CS	LTE Cat 4	**4G(LTE-FDD):** B2/B4/B5/B12/B13/B14/ B66/B71 **3G WCDMA:** B2/B4/B5							FCC*, PTCRB*	North America
H8922S-2L4-ENNA-CS	2 modules LTE Cat 4									
H8922S-L4-ENSA-CS	LTE Cat 4	**4G (FDD-LTE):** B1/B2/B3/B4/B5/B7/B8/ B28 **4G (LTE-TDD):** B40 **3G:** B2/B3/B5/B8							RCM*, Anatel*	Oceania, South America
H8922S-2L4-ENSA-CS	2 modules LTE Cat 4									

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

Packing list

Packing Box

H8922S 4G Dual SIM VPN Router

2* 4G Antenna

Wi-Fi Antenna	GPS Antenna ***** Only GPS Version	Power Adaptor (EU Type)
RJ45 Cable	Installation Kit	