H8959

4G Cellular VPN Router

Overview

H8959 4G Cellular VPN Router provides excellent wireless communication solution to customer by connecting their end devices towards their business success. It has been approved by global customers who are using its cellular based connection solution for all their assets/machines to get online, 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 machanism, giving customer 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
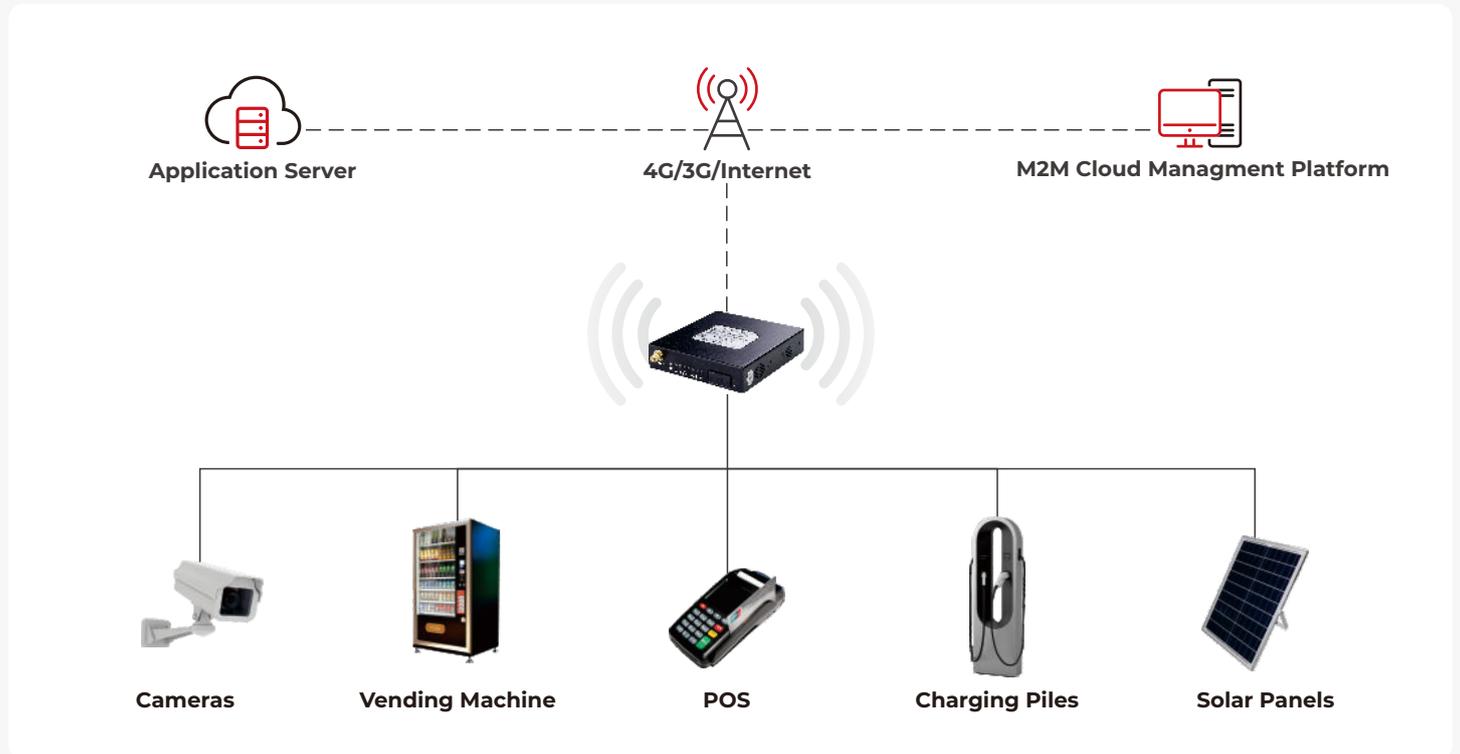
Data protection

Advanced VPN protocols integrated, provide secure M2M communication network

Market approved quality

Widely deployed and helping customer to win their business globally

▌ Topology diagram

Application Server ---- **4G/3G/Internet** ---- **M2M Cloud Managment Platform**

Cameras — **Vending Machine** — **POS** — **Charging Piles** — **Solar Panels**

Automated Parcel Locker

Vending Machine

Smart Charging Pile

Solar Energy

▌ Features

Support Qualcomm/ASR LTE Cat1/Cat4 module

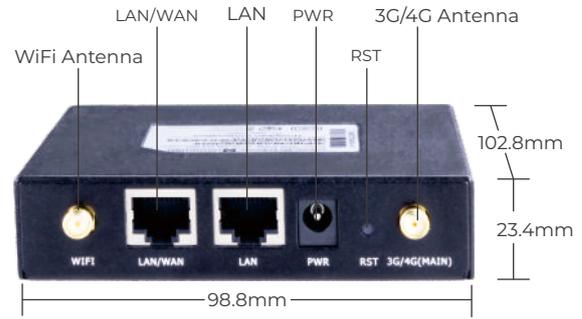**Advanced VPN protocols integrated, provide secure network**

Market approved quality

Support Hongdian Wedora RMS for cloud based management

■ *Specification*

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

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

Ethernet Interface			
Number of Ports	2 × 10/100 Mbps, Ethernet	**Configuration**	2 × LAN or 1 × 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	RP SMA-K		

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, IPv4, IPv6, 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 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	

Power Supply and Consumption			
Connector	DC socket	**Voltage Input**	+5V~+36V DC
Power Consumption	Idle: 100mA@12V DC, Data transceiving: 350mA@12V DC		

Others			
Reset Button	Yes	**Hardware Watchdog**	Yes
LED Indicators	8 indicators for Modem, Power, WLAN, Ether, Signa		

Physical Characteristics			
Ingress Protection	IP30	**Housing & Weight**	Metal, 300g
Dimension	102.8×98.8×23.4(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

Front panel labels: 3G/4G, LED*8, SIM Card Slot, 3G/4G(AUX), Modem, WLAN, Signal, Power, Ether

Back panel labels: WiFi Antenna, LAN/WAN, LAN, PWR, RST, 3G/4G Antenna, WIFI, LAN/WAN, LAN, PWR, RST, 3G/4G(MAIN), 102.8mm, 23.4mm, 98.8mm

▌Ordering info

Part No.	Network	Frequencies	Interfaces			Certifications (*In progress)	Regions
			SIM	RJ45	WLAN		
H8959-L4EU-W	LTE Cat 4	**4G(LTE-FDD):** B1/B3/B5/B7/B8/B20 **4G (LTE-TDD):** B38/B40/B41 **3G:** B1/B8 **2G:** B3/B8	1	2	N150	CE, RoHS, RCM	Europe, the Middle East, Africa, Korea, Thailand, India, Malaysia, Australia
H8959-L4EA-W	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				CE, RoHS, RCM	Europe, the Middle East, Africa, Korea, Thailand, India, Malaysia, Australia
H8959-L4GL-W	LTE Cat 4	**4G(LTE-FDD):** B1/B2/B3/B4/B5/B7/B8/ B12/B13/B18/B19/B20/B25/B26/B28 **4G (LTE-TDD):** B38/B39/B40/B41 **3G:** B1/B2/B4/B5/B6/B8/B19 **2G:** B2/B3/B5/B8				FCC, IC, PTCRB, AT&T, Verizon, T-mobile	Global, North America
H8959-L4JP-W	LTE Cat 4	**4G (FDD-LTE):** B1/B3/B8/B18/B19/B26 **4G (TDD-LTE):** B41 **3G:** B1/B6/B8/B19				JATE, TELEC, VCCI*	Japan

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

Packing list

H8959 4G Cellular VPN Router

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

Power Adaptor (EU Type)
*Other types available

Packing Box

4G Magnetic Antenna
*Other types antennas available

Wi-Fi Antenna

RJ45 Cable

Installation Kit

Connecting things
Hongdian

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