

H8952

RedCap IoT Router



Overview

H8952 is a RedCap IoT router designed for the growing 5G industrial applications, it provides enhanced cellular performance than 4G by complying 3GPP release 17 standard whilst can save your wallet from using full-capacity 5G. It will continue provide incredible performance as its predecessor H8951, while providing more features by upgrading with dual SIM, remote access, cloud management, VPN and SD-WAN. It provides excellent wireless communication solution to customer by connecting their end devices towards their business success. It supports RS-232 or RS-485 interface, with ultra-high cost performance. 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 mechanism, giving you a secure and extremely reliable networking solution.

Highlights



Always-online Connectivity

5G/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 Transmission Security

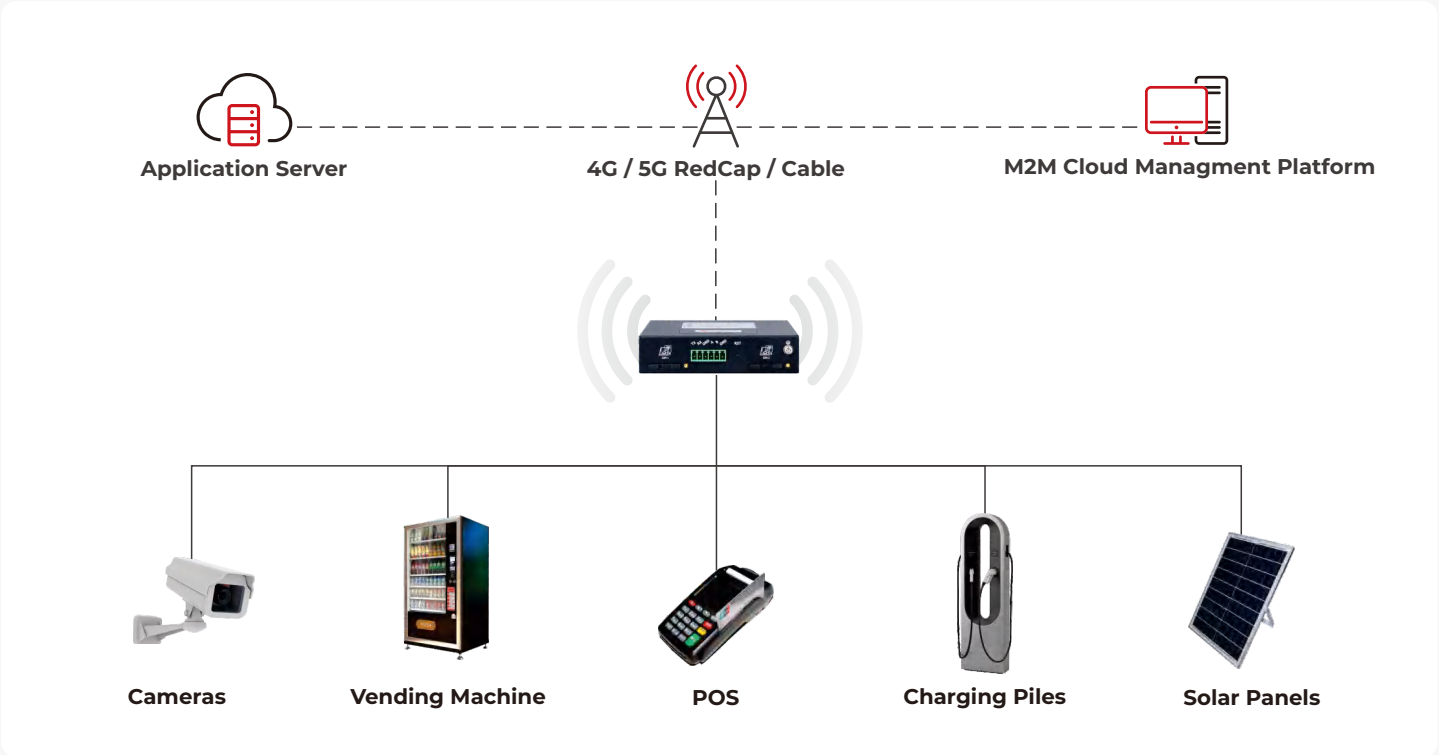
Advanced VPN protocols integrated, provide secure M2M communication network



Rugged Industrial Design

- Wide temperature and voltage input range
- Immunity to interference & low electromagnetic emissions

Topology diagram



Automated Parcel Locker



Vending Machine



Smart Charging Pile



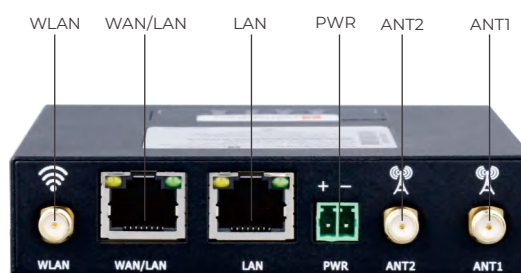
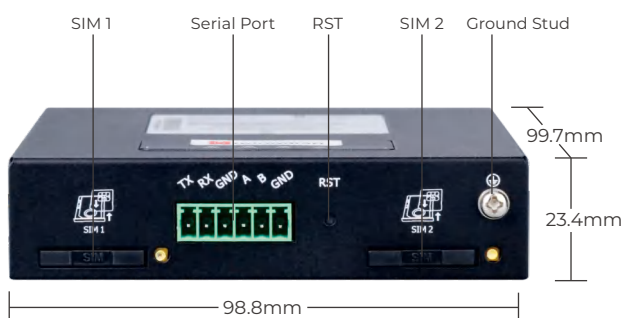
Solar Energy

Specification

Hardware			
CPU	MIPS 24Kc 580MHz		
RAM	128MB	FLASH	16MB
Cellular Interface			
Modem	1 × RedCap 5G	SIM	2 × 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		

Serial Interface			
Type	1 × RS-232 or 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)	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, Telnet, SSH2, DDNS, etc.		
Network	APN, VPDN, VLAN, QoS		
Routing	Static Routing, Policy routing, RIP, OSPF and BGP, etc		
Firewall	NAT, PAT, DMZ, Port Forward IP/Domain/MAC Filter, Access Control List		
Attack Prevention	DDOS prevention, Anti port scanning		
Ipssec 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		
VPN	PPTP/L2TP/GRE/IPSec/OpenVPN/DMVPN/WireGuard		
Remote Management	HTTP, Telnet, SSH, SMS, SNMP V1/V2/V3, SNMP TRAP, Hongdian Cloud Platform		
Serial Ports Function	Transparent, Modbus RTU, etc		
Power Supply and Consumption			
Connector	2 pin 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	4 indicators for WiFi, RF, NET, SYS		
Physical Characteristics			
Ingress Protection	IP30	Housing & Weight	Metal, about 300g
Dimension	99.7×98.8×23.4(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	Interfaces					Certifications (*In progress)	Regions
H8952-L4EU-CS-W	LTE Cat4	4G (LTE-FDD): B1/B3/B5/B7/B8/B20 4G (LTE-TDD): B38/B40/B41 3G: B1/B8	SIM	WLAN	RJ45	RS232	RS485	CE*, RoHS*	Europe
H8952-L4EA-CS-W		4G (LTE-FDD): B1/B3/B5/B7/B8/B20 4G (LTE-TDD): B38/B40/B41 3G: B1/B5/B8 2G: B3/B8						CE*, RoHS*	Europe,Africa, the Middle East, Korea, Thailand, India, Malaysia
H8952-L4NA-CS-W		4G (LTE-FDD): B2/B4/B5/B12/B13/B14/ B66/B71 3G: B2/B4/B5						FCC*, IC*, PTCRB*	North America
H8952-L4SA-CS-W		4G (LTE-FDD): B1/B2/B3/B4/B5/B7/B8/ B28 4G (LTE-TDD): B40 3G: B1/B2/B4/B5/B8 2G: B2/B3/B5/B8	2	N150	2	1	1	RCM*, Anatel*	Oceania, South America
H8952-RCGL-CS-W	RedCap 5G	5G NR SA: N1/N2/N3/N5/N7/N8/N12/ N13/N14/N18/N20/N25/N26/N28/N30/ N38/N40/N41/N48/N66/N70/N71/N77/ N78/N79 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/ B13/B14/B17/B18/B19/B20/B25/B26/B28/ B30/B66/B70/B71 LTE-TDD: B34/B38/B39/B40/B41/B42/ B43/B48						GCF*	Global
H8952-RCCN-CS-W	RedCap 5G	5G NR SA: N1/N3/N5/N8/N28/N41/N78/ N79 LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/B41						CCC*	Asia

* For example, H8952-L4EU-CS-W, H8952 4G Router, support LTE Cat4, the application area is Europe, support RS-232 and RS-485,support Wi-Fi. H8952-L4EA-CS-W, H8952 4G Router, support LTE Cat4, the application area is Europe,Africa,the Middle East,Korea, Thailand,India, Malaysia region, support RS-485 and RS-232, support Wi-Fi.

Packing list



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5G SMA Antenna

• Other type antennas available



Wi-Fi SMA Antenna



Installation Kit



Power Adaptor (EU type)



RJ45 Cable