

H7960

4G POE+ Router



Overview

H7960 POE+ router is dedicated for providing strong cellular network for IoT applications and has been approved by many customers in the vertical industries. It supports a set of cellular backup functions to keep the router working 7x24 hours, Data security is ensured by VPN private network access, with its high-speed and stable mobile data transmission capacity to meet the needs of different applications, widely used in public transit, security surveillance, fleet management, smart power grid, environmental protection and other applications.

Highlights



Always Connected

Backup cellular service can be used on one router to avoid signal lost issue for mission critical scenario



Gapless Route Tracking

Continuously tracking vehicle routes without interrupt even when under roof or tunnel



Rich Interfaces for Connectivity

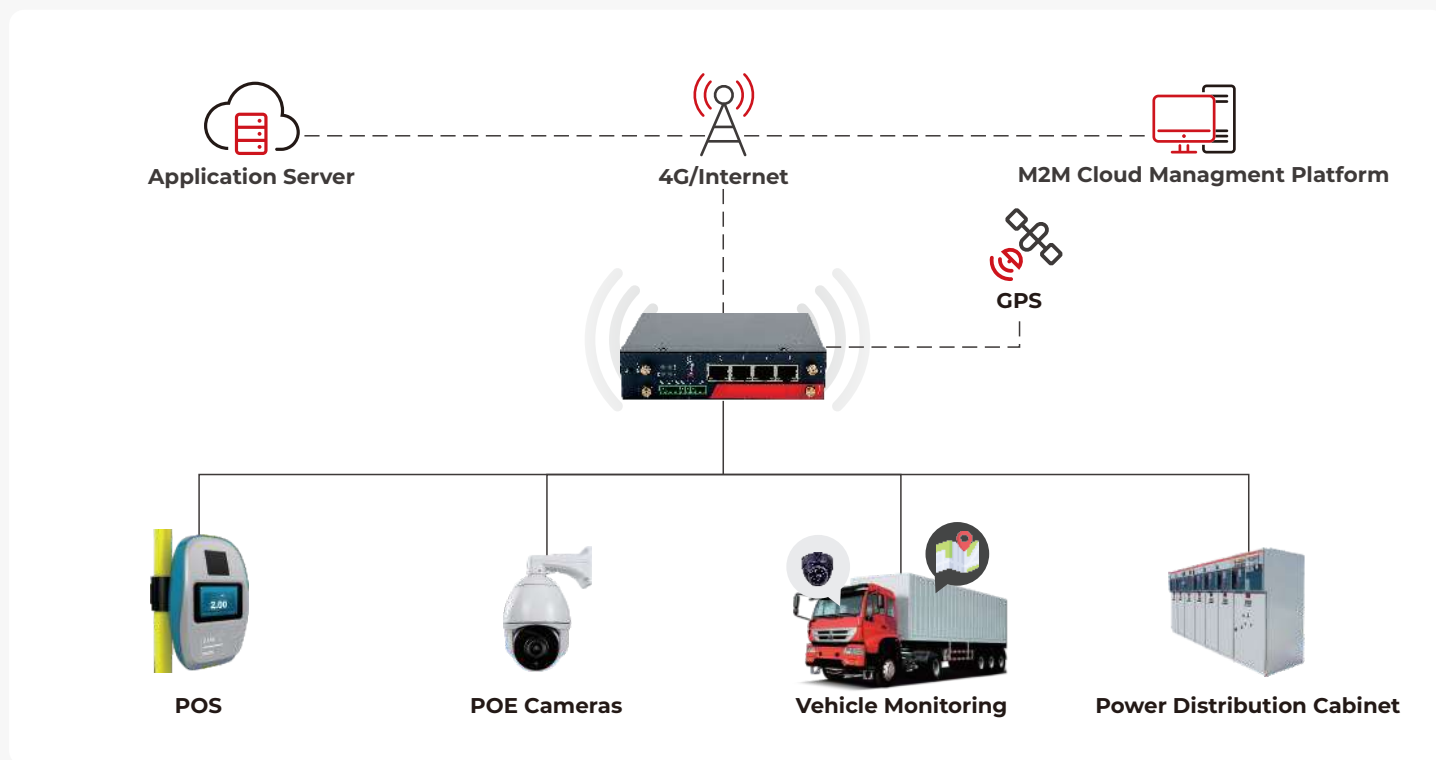
Wi-Fi, RS232 and Ethernet ports provide flexible ways of data connection



Power Sourcing Equipment

30W power output over Ethernet makes deployment easier

Topology diagram



Public Transportation



Security Monitoring



Fleet Management



Smart Grid

Features



Support LTE Cat4/Cat6/Cat12 or 5G NR



Support POE+ output on Ethernet and GPS DR



DIN rail installation



Support Hongdian Wedora RMS for cloud based management

Specification

Hardware			
CPU	MIPS 24Kc 580 MHZ		
RAM	128MB	FLASH	16MB
Cellular Interface			
Modem	1 × LTE Cat4	SIM	2 × Mini SIM (2FF)
Number of Antennas	2	Connector	SMA-K
Ethernet Interface			
Number of Ports	4 × 10/100 Mbps, Ethernet	Configuration	4 × LAN or 3 × LAN + 1 × WAN
PoE Output	POE+ 30W output × 4		
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	RPSMA-K		
GNSS Interface			
Number of Antennas	802.11b/g/n, AP or station mode	Connector	SMA-K with 50 ohms impedance
Dead Reckoning	Optional		
Serial Interface			
Type	1 × RS-232 + 1 × RS-485 serial port	Socket Form	1 × 9-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: 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.		
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		
VPN	PPTP/L2TP/GRE/IPSec/OpenVPN/DMVPN/WireGuard		
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		
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	4 PIN	Voltage Input	+9V~+54V DC
Power Consumption	Idle: 100mA@12V DC, Data transeiving: 350mA@12V DC		
Others			
Reset Button	Yes	LED Indicators	4 indicators for WiFi, System, Network, Signal
Hardware Watchdog	Yes		

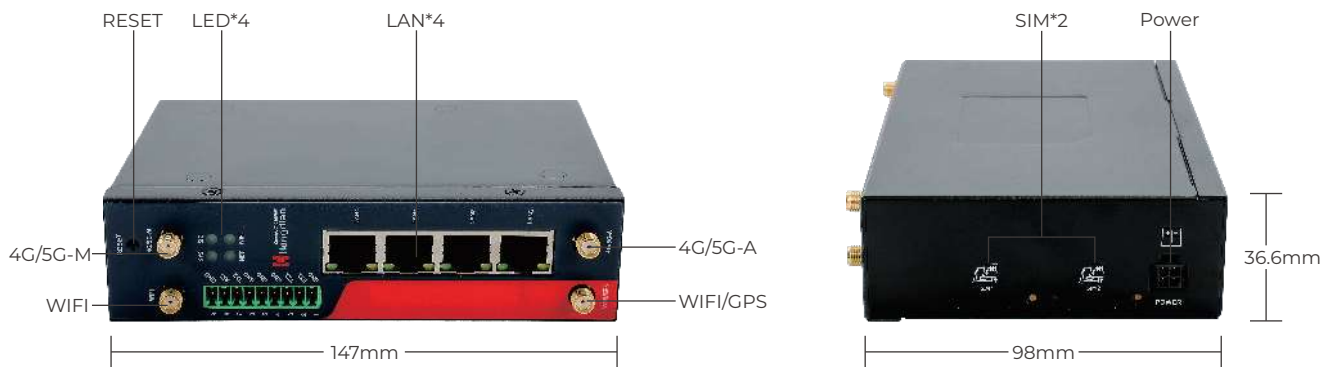
Physical Characteristics

Ingress Protection	IP30	Housing & Weight	Metal, 480g
Dimension	147×98×36.6(mm)	Installations	Desktop, wall mounting and 35 mm, DIN rail mounting
Operating Temperature	-30 ~ +70 °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	RJ45	PSE	RS232	RS485			GPS
H7960-L4EU-CS-WG-PSE	LTE Cat 4	4G (LTE-FDD): B1/B3/B5/B7/B8/B20/B28 4G (LTE-TDD): B38/B40/B41 3G(WCDMA): B1/B8 2G: B3/B8	1	N150	4	4	1	1	Yes	CE	EMEA, Korea, Thailand, India, Malaysia
H7960-L4EU-C2-W2-PSE			2	N300							
H7960-L4EA-CS-WG-PSE	LTE Cat 4	4G (LTE-FDD): B1/B3/B5/B7/B8/B20 4G (LTE-TDD): B38/B40/B41 3G(WCDMA): B1/B5/B8 2G: B3/B8	1	N150	4	4	1	1	Yes	CE	EMEA, Korea, Thailand, India, Malaysia
H7960-L4EA-C2-W2-PSE			2	N300							
H7960-L4NA-CS-WG-PSE	LTE Cat 4	4G (LTE-FDD): B2/B4/B5/B12/B13/B14/B66/B71 3G WCDMA: B2/B4/B5	1	N150	4	4	1	1	Yes	FCC*	North America
H7960-L4NA-C2-W2-PSE			2	N300							
H7960-L4SA-CS-WG-PSE	LTE Cat 4	4G (FDD-LTE): B1/B2/B3/B4/B5/B7/B8/B28 4G (LTE-TDD): B40 3G: B2/B3/B5/B8	1	N150	4	4	1	1	Yes	RCM*, Anatel*	Oceania, South America
H7960-L4SA-C2-W2-PSE			2	N300							

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

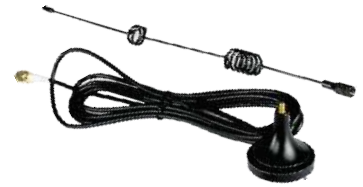
Packing list



Packing Box



H7960 4G POE+ Router



2x4G Antenna



Power Adaptor (EU type, 4-pin)
* POE+ requires 132W output adaptor,
please contact your sales representative
for more information.



RJ45 Cable



Wi-Fi Antenna



GPS Antenna
* Only GPS Version



Installation Kit



3.5mm DIN Rail Socket