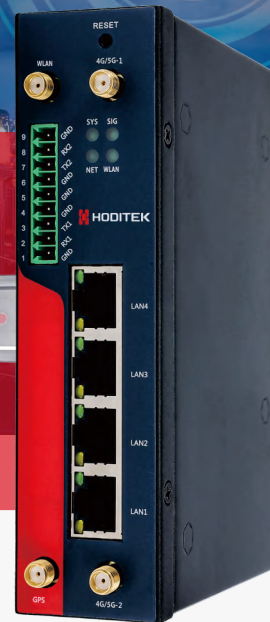


H7960

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 7×24 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



Data Protection

Provides secure and high-speed data transmission through VPN private network



Rich Interfaces for Connectivity

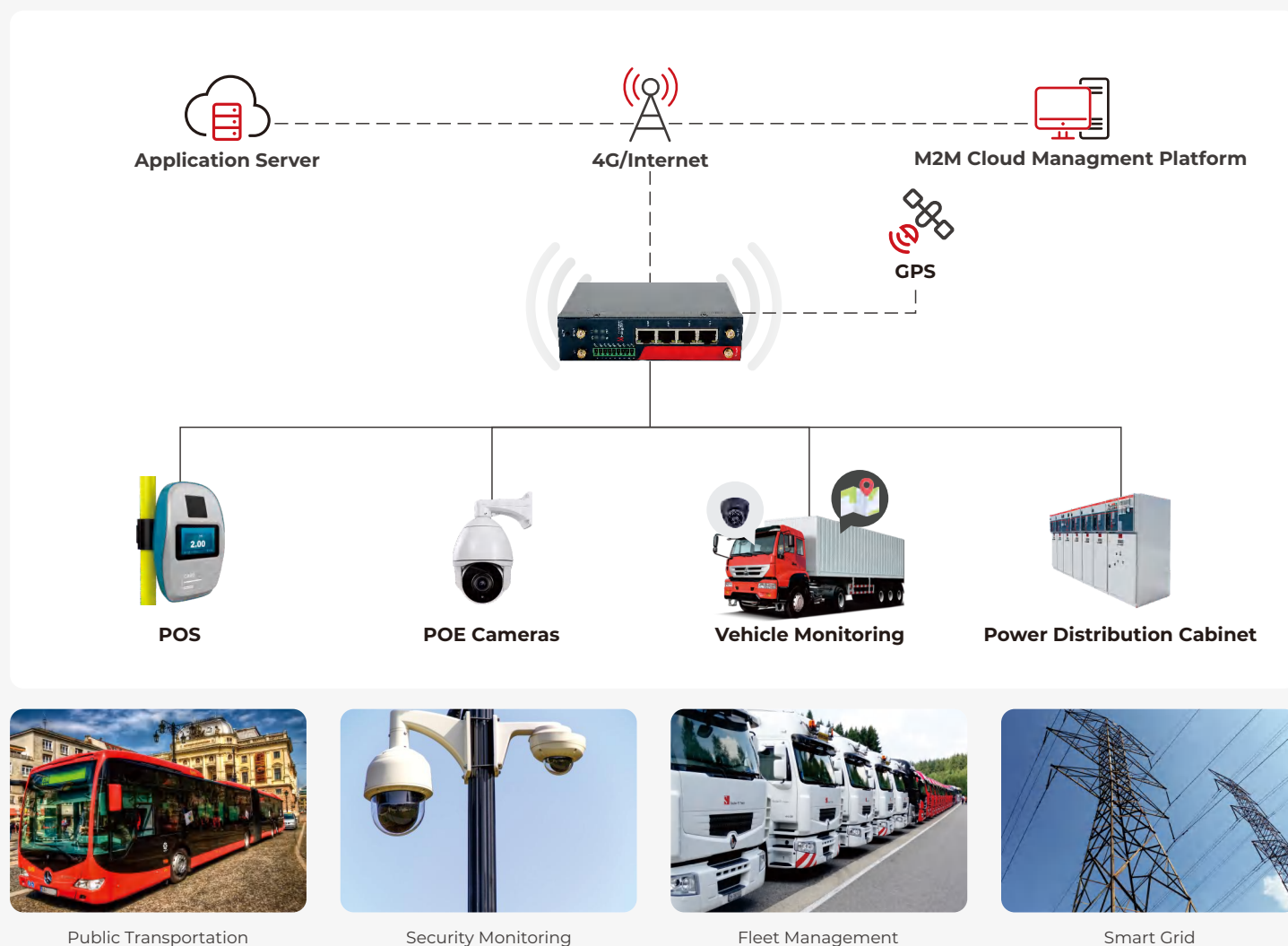
Wi-Fi, RS232 and Ethernet ports provide flexible ways of data connection



Power Sourcing Equipment

30W power output over Ethernet makes deployment easier

Topology diagram



Features



Support LTE Cat4/Cat6/Cat12 or 5G NR



Support POE+ output on Ethernet



DIN rail installation



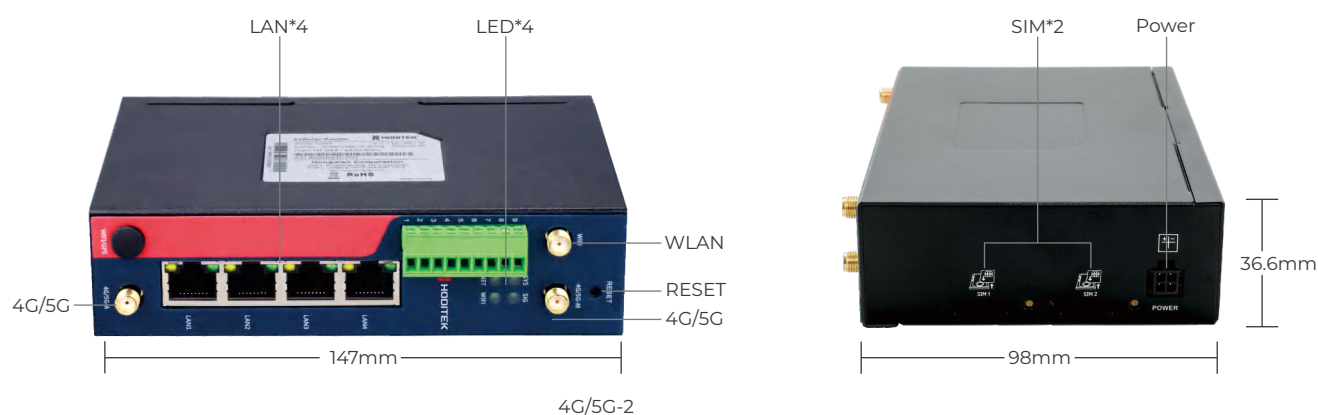
Support Hoditek Sandora RMS for cloud based management

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	RP SMA-K		
GNSS Interface			
Number of Antennas	1	Connector	SMA-K with 50 ohms impedance
GNSS Support	GPS, GLONASS, BeiDou, Galileo(optional)		
Protocol	NMEA 0183	Cordinate	WEB UI, RMS
Seiral 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)	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 Forword 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, Hoditek Sandora 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 transceiving: 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
H7960-L4EA-C2-W-PSE	LTE Cat4	4G(LTE-FDD): B1/B3/B5/B7/B8/B20 4G(LTE-TDD): B38/B40/B41 3G(WCDMA): B1/B5/B8 2G: B3/B8	SIM	WLAN	RJ45	PSE	RS232	RS485	GPS	CE	EMEA, Korea, Thailand, India, Malaysia
H7960-L4EA-C-WG-PSE							2	-	-		
H7960-L4EA-CS-W-PSE			2	N150	4	4	1	1	-		
H7960-L4EA-CS-WG-PSE							1	1	Yes		
H7960-L4EU-C2-W-PSE	LTE Cat4	4G(LTE-FDD): B1/B3/B5/B7/B8/B20/B28 4G(LTE-TDD): B38/B40/B41 3G(WCDMA): B1/B8 2G: B3/B8	2	N150	4	4	2	-	-	CE	EMEA, Korea, Thailand, India, Malaysia
H7960-L4EU-C-WG-PSE							1	-	Yes		
H7960-L4NA-C2-W-PSE	LTE Cat4	4G(LTE-FDD) : B2/B4/B5/B12/B13/B14/B66/B71 3G(WCDMA): B2/B4/B5	2	N150	4	4	2	-	-	FCC*	North America
H7960-L4NA-C-WG-PSE							1	-	Yes		

* For example, H7960-L4EA-CS-WG-PSE, H7960 4G Router, support LTE Cat4, the application area is Europe, the Middle East, Africa, Korea, Thailand, India, Malaysia region, support RS-232 and RS-485, support Wi-Fi, GPS and POE.

* The above models all support POE adapter optional.

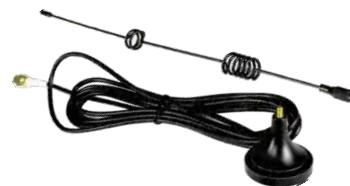
Packing list



Packing Box



H7960 4G POE+ Router



2x4G Antenna



Wi-Fi Antenna



GPS Antenna
* Only GPS Version



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



RJ45 Cable



Installation Kit



3.5mm DIN Rail Socket