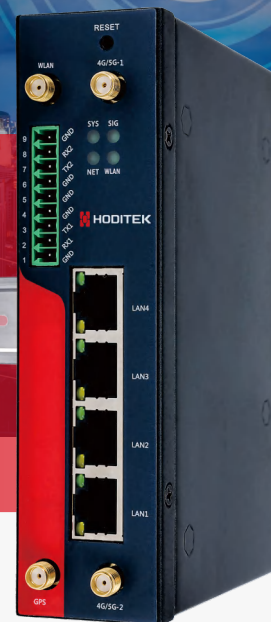


H7960

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

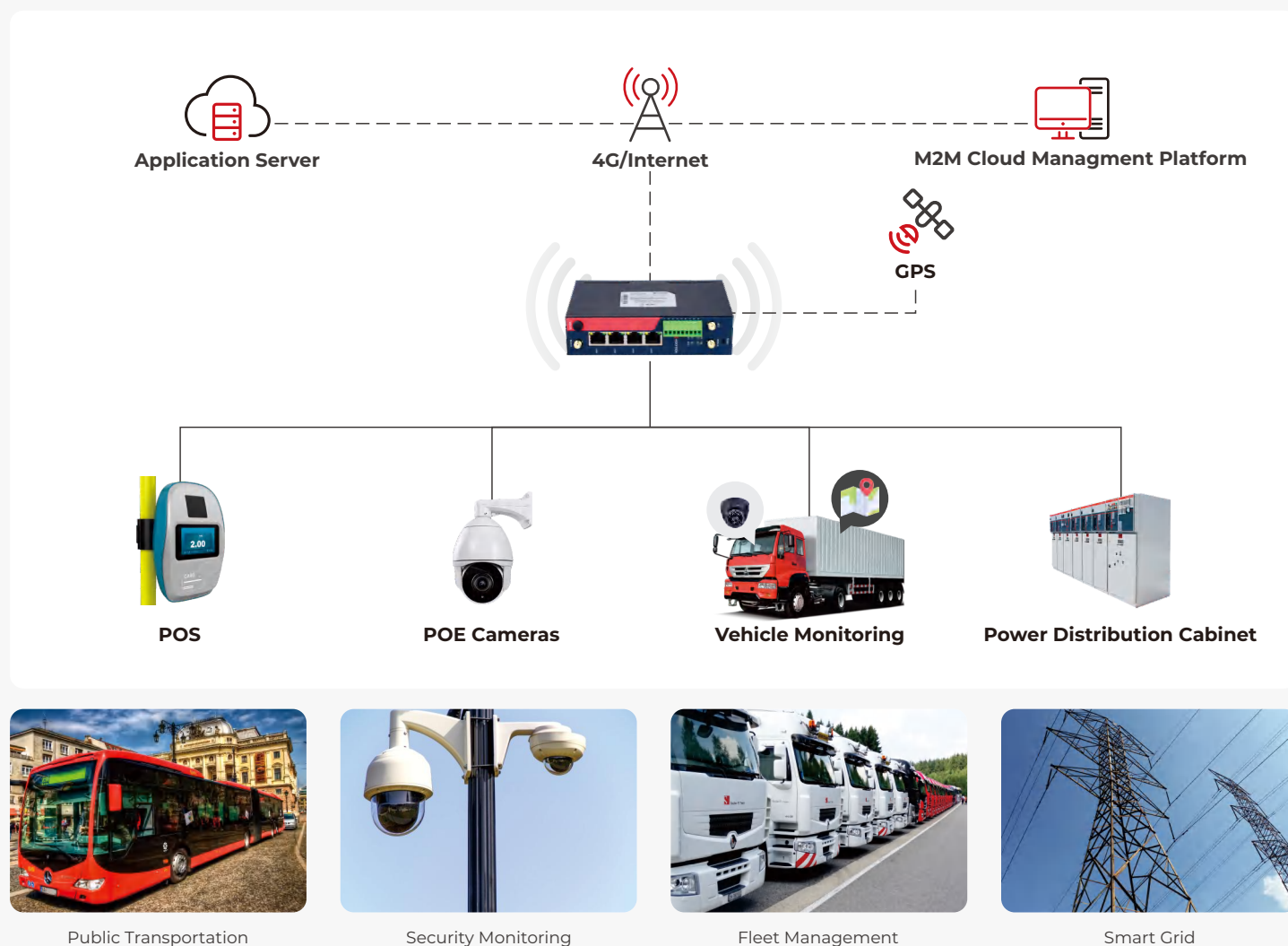
Wi-Fi, RS232 and Ethernet ports provide flexible ways of data connection



Power Sourcing Equipment

30W power output over Ethernet makes deployment easier

Topology diagram



Features



Support LTE Cat4/Cat6/Cat12



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~+57V 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		

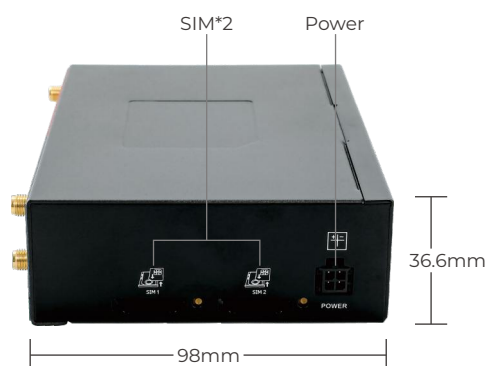
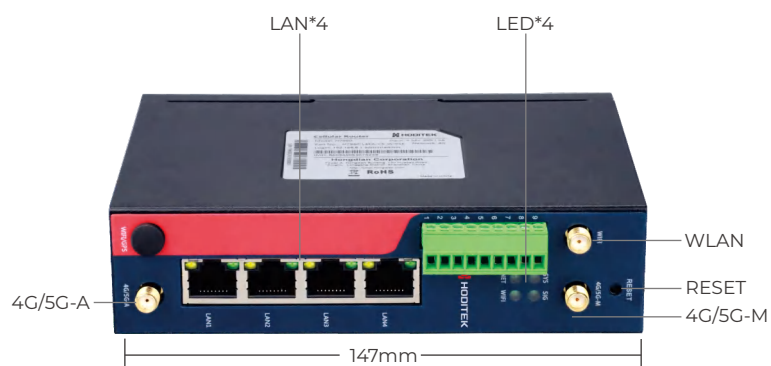
Physical Characteristics			
Ingress Protection	IP30	Housing & Weight	Metal, 480g
Dimension	147×98×36.6(mm)	Installations	Desktop, wall mounting and 35 mm DIN rail mounting
Operating Temperature	-30 ~ +70 °C	Storage Temperature	-40 ~ +85 °C
Relative Humidity	≤ 95%(no condensing)		
EMC			
ESD	EN61000-4-2, 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		

Ordering info

Part No.	Mobile	Band	Region	Ethernet	RS-232	RS-485	PSE	Wi-Fi	GPS
H7960-L4EU-PE-CS-rW	LTE Cat4	LTE FDD: B1/3/5/7/8/20/28 LTE TDD: B38/40/41 WCDMA: B1/5/8 GPRS/EDGE: B3/8	EU	4	1	1	4	802.11n	-
H7960-L4GL-PE-CS-rW	LTE Cat4	LTE FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28 LTE-TDD: B38/39/40/41 UMTS: B1/2/4/5/6/8/19 GSM: B2/3/5/8	GL	4	1	1	4	802.11n	Yes
H7960-L4GL-PE-CS-rWG	LTE Cat4	LTE FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28 LTE-TDD: B38/39/40/41 UMTS: B1/2/4/5/6/8/19 GSM: B2/3/5/8	GL	4	1	1	4	802.11n	Yes
H7960-L4EA-PE-CS-rW	LTE Cat4	LTE-FDD: B1/3/5/7/8/20 LTE-TDD: B38/40/41 WCDMA: B1/5/8 GSM/EDGE: B3/8	EA	4	1	1	4	802.11n	-
H7960-L4EU-CS-rW	LTE Cat4	LTE FDD: B1/3/5/7/8/20/28 LTE TDD: B38/40/41 WCDMA: B1/5/8 GPRS/EDGE: B3/8	EU	4	1	1	-	802.11n	-
H7960-L4NA-CS-rW	LTE Cat4	LTE-FDD: B2/4/5/12/13/14/66/71 WCDMA: B2/4/5	NA	4	1	1	-	802.11n	-
H7960-L4EA-PE-CS-rWG	LTE Cat4	LTE-FDD: B1/3/5/7/8/20 LTE-TDD: B38/40/41 WCDMA: B1/5/8 GSM/EDGE: B3/8	EA	4	1	1	4	802.11n	Yes
H7960-L4EU-PE-CS-rWG	LTE Cat4	LTE FDD: B1/3/5/7/8/20/28 LTE TDD: B38/40/41 WCDMA: B1/5/8 GPRS/EDGE: B3/8	EU	4	1	1	4	802.11n	Yes
H7960-L4EA-PE-2C-rW	LTE Cat4	LTE-FDD: B1/3/5/7/8/20 LTE-TDD: B38/40/41 WCDMA: B1/5/8 GSM/EDGE: B3/8	EA	4	2	-	4	802.11n	-
H7960-L4EA-PE-C-rWG	LTE Cat4	LTE-FDD: B1/3/5/7/8/20 LTE-TDD: B38/40/41 WCDMA: B1/5/8 GSM/EDGE: B3/8	EA	4	1	1	4	802.11n	Yes

* GL-Global, EU-EMEA(Europe, the Middle East, Africa)/APAC(Non-CN/JP)/Brazil, EA-EMEA(Europe, the Middle East, Africa)/APAC, NA-North American.

Appearance



Packing list

 Packing Box	 H7960 4G POE+ Router	 2x4G Antenna
 Wi-Fi Antenna	 GPS Antenna * Only GPS Version	 Power Adaptor (4-pin) * POE+ requires 48V output adaptor, please contact your sales representative for more information.
 RJ45 Cable	 Wall Mounting Kit	 DIN Rail Mounting Kit