H10series Industrial 4G Router Spec

Description

H10series Industrial Grade 4G Router is a kind of internet of things wireless communication router. It uses FDD-LTE and TDD-LTE 4G mobile broadband network type to provide convenient and high speed network transmission function. It supports 5 models, 13 frequency bands.

This series of products use high performance industrial 32 bit communication processor and use embedded real-time operation system as software support platform to provide security, high-speed, stable 4G wireless network for clients. It's a wireless router with 1 Ethernet RJ45 port and communication serial port.

It can be used in finance, postal, smart power grids, smart transportation, environment monitor, fire protection monitor, security, water conservancy, public safety, advertising release, industrial control, earth quake monitor, meteorological watch and instrument monitor etc.





Features

Industrial grade design

- Use high performance industrial wireless module
- Use high performance industrial 32bit processor
- Support low power consumption mode, customized
- Use plate metal CRS shell with good heat dissipation
- Power supply: +7.5V ~ +32V DC

Network characteristic

- Port flow detection
- Link real-time monitoring
- Multiple VPN protocol (PPTP, L2TP, IPSec, VPN...)
- Support serial port DTU function
- Support dialing as required (voice, SMS or data trigger)
- Support UPnP

Stability

- Use soft/hardware watchdog and multi-level link detection, with capability of fault automatic diagnosis, automatic recovery, ensure equipment working in stable and security way
- Multiple equipment self-checking mechanism, ensure smooth link and alarm
- ESD protection for each port, prevent static shock

Remote management

- Remote parameters configuration
- Remote parameters backup
- Remote restart and log query
- Remote equipment upgrading
- Equipment online monitoring

Functions

- Down compatible to WCDMA, TD-Scdma and
 GPRS network
- Support 1 x LAN
- Provide standard RS-232/485 serial port, support serial port DTU (data transmission terminal) function
- Support hardware WDT, provide anti-log off mechanism, ensure data terminal online forever
- Support multiple VPN protocols (PPTP, L2TP or GRE etc.)
- Support multiple functions (DHCP, DDNS, firewall, NAT, DMZ host etc.)

- Support multiple network protocols (ICMP, TCP, UDP, Telnet, SSH, FTP, HTTP, HTTPS etc.)
- Support industrial SIM/UIM card design
- Support base station auxiliary positioning function

Extend functions

 Support extend high precision independent GPS orientation function (optional)

Details

Wireless parameters

Wireless Industrial grade wireless module

module:

Cellular FDD-LTE: FDD-Band 1 / 2 / 3 / 5 / 7 / 8 / 20 / 28 bands: (Band 1 / 2 / 4 / 5 / 7 / 8 / 12 / 13 / 17 / 25 / 26)

TDD-LTE: Band38/39/40/41

UMTS(WCDMA): 2100/1900/900/850MHz

Theory FDD-LTE: MAX DL/100Mbps ; MAX UL/50Mbps bandwidth: TDD-LTE: MAX DL/61Mbps ; MAX UL/18Mbps

Transmit 23dBm+/-Db@25℃

Power:

Power Data mode <240mA/12V; Idle modem <45mA/12V

consumption:

Receive -97dBm @10MHz QPSK

sensitivity:

LAN:

Interface type

1 Ethernet interface (RJ45), self-adaption MDI/MDIX, built-in electromagnetic isolation

protection

Serial: 1 Terminal interface (RS232/RS485), used for the acquisition equipments which have

RS232/RS485 port

Indicator: 3 indicator lights, "NET", "LAN", "PWR". 3 color of "NET" (Red: poor; Yellow: general;

Green: good;)

Antenna 1 Main antenna interface (3G/4G), characteristic impedance 50Ω; 1 Aux/GPS antenna

interface: interface, used as 3G/4G AUX antenna or GPS function active antenna

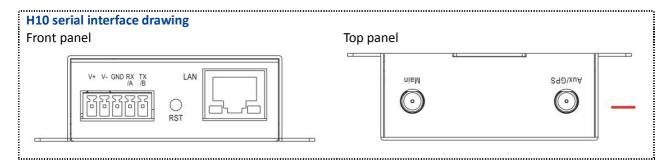
SIM/UIM SIM/UIM engineering card cover, protect the card from falling. 1.8V/3V automatic

interface: detection

Power +7.5V ~ 32V (standard DC 12V/1.5A), built-in power instantaneous overvoltage

interface: protection and opposite connection protection

Reset: Press this button, the parameters will return to factory setting



Power supply

• Standard power: DC 12V/1.5A

Appearance

Housing: Metal

• Dimension: 78.5×59×23.5mm

• Weight: 150g

Other features

CPU: MIPS32 74K Core. 333MHz/560DMIPs

• Flash/RAM: 64Mb / 256Mb

Working temperature: -30 $^{\sim}$ +75 $^{\circ}$ C (can be

extended)

Storage temperature: -40 ~ +85 °C

Relative humidity: <95% (No condensation)



oduct list H10	WCDMA	EV-DO	TD	4G	Customized
	standard	standard	standard	standard	
LAN	•	•	•	•	0
HSPA+	•	_	_	_	0
EV-DO	-	•	_	_	0
TD-Scdma	-	-	•	-	0
FDD-LTE	-	-	-	•	0
TDD-LTE	-	-	-	•	0
GPS	0	0	0	0	0
RS232	•	•	•	•	0
RS485	0	0	0	0	0
Refer NO.:	H10-WA2T	H10-E12T	H10-T12T	H10-FA2T	

Add: Terminal interface

5Pin Terminal			V+ V- GND RX TX
1	V+	Power input and output,	/A /B
2	V-	non-polarity	
3	GND	Signal ground	1124242424
4	RX/A	Serial input / RS485-A	
5	TX/B	Serial output /RS485-B	