



## Technical Specification

# H7960 3G/4G Router



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# 1 Product Overview

H7960 4G industrial router is based on 3G/4G network, and supports wired / wireless network backup, with high reliability and convenient construction. It is suitable for large-scale distributed applications, can be widely used in the self service terminal industry such as smart courier cabinet, bank ATM machine, POS machine, self-service vending machine, advertising machine, query machine, queuing machine, coupon printer, etc. Industrial design and multi interface expansion, can help customers achieve machine networking, state monitoring, remote maintenance, reduce the cost of integrated maintenance, improve service response speed, accelerate the implementation of industrial 4.0.

# 2 Product Specification

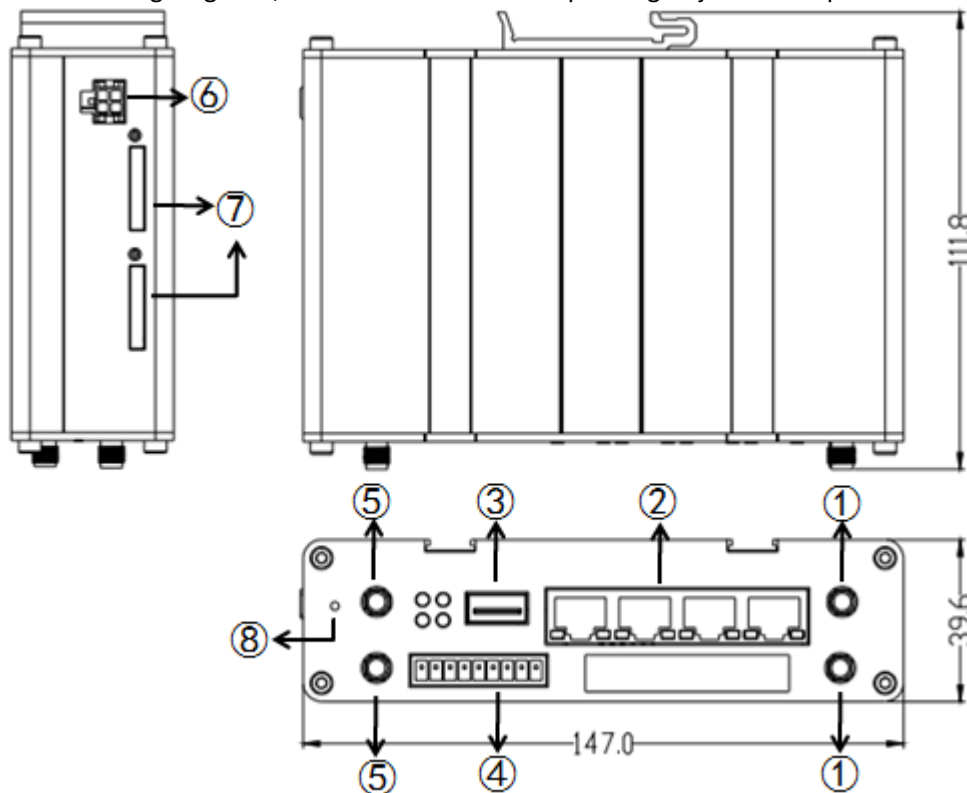
Specification Name	Description	Remarks
Product Name	H7960	V20
Network Standard	4G	Choose different modules according to user's needs, support different network standards
Interface	Antenna interface	3G/4G antenna interface: SMA-K female connector Wi-Fi antenna interface: SMA-K female connector
	SIM card	1.8V/3.0V
	Serial data port	RS-232-300-230400bps(Optional)
	Serial data rate	RS-232:300-230400bps (115200bps default) RS-485:300-230400bps (115200bps default)
	Button	Support RESET button
	USB interface	Support USB function
	LAN interface	4×10/100Mb adaptive
Power Supply	Working voltage	+5V~+48V DC
Working Power	Max power in idle state	About 110mA@12V DC
	Max power in Normal working	About 320mA@12V DC
Other	Weight (Signal mode)	About 480g

Specification Name	Description	Remarks
	Size (without power line interface and bracket)	L x W x H (mm) 147×98×36.6
	Working environment temperature	-30~+75℃
	Storage temperature	-40~+85℃
	Relative humidity	<95%( No condensation)

Note: the communication power consumption is influenced by the network signal strength and the module network system.

### 3 Definition of Structure Size and Interface

In the following diagrams, the dimensions of corresponding objects are expressed in millimeter.



①	3G/4G antenna interface
②	LAN interface
③	USB interface
④	9 pin terminal interface
⑤	Wi-Fi/GPS antenna interface
⑥	3 pin terminal power interface
⑦	SIM card connector

⑧	RESET button
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When using the 14 ~ 24AWG cable, the label description of the H7960 4G Router's panel lists three types (dual RS232, RS485 and RS232, TTL and RS232 interface) of the cable wiring.

Please be sure to follow the instructions below to make the connection.

H7960 4G Router's cable connector is plug type, spacing: 3.5mm, 9 pin. The interface pin diagram as shown in table 3-1.

Table 3- 1 Interface instruction

Data port type	GPIO(PIN1)	RX1	TX1	GPIO	OFF	GPIO	TX2	RX2	GND (PIN9)
RS232	GPIO	RS232 level	RS232 level	GPIO	High shutoff	GPIO	RS232 level	RS232 level	Power ground
RS485	GPIO	B	A	GPIO	High shutoff	GPIO	B	A	Power ground

H7960 4G Router's power supply interface is plug type, spacing: 3.5mm, 3pin. The interface pin diagram as shown in table 3-2

Table 3- 2 Power supply interface instruction

Pin No.	PIN1	PIN2	PIN3
Function	Shell's ground	Positive supply	Negative supply

## 4 Panel Indicator Status

The front panel of the H7960 4G Router has 4 LED indicator lights; each LAN port has 2 LED indicator, indicating the working state and the network state of 4G Router H7960. The description of indicator status shows in table 4-1.

Indicator Name	State Description
STATE	Light On: device power on Light Off: device power off
SIG	Light On: signal value above 20 Slow Blink: signal value between 10~20(include 20) Fast Blink: signal value between 0~10(include 10) Light Off: signal value is 0
3G/4G	Light On: dial up 4G network Fast Blink: dialing Slow Blink: dial up other network(2G/3G)
VPN	Light On: dial success Fast Blink: VPN dialing Slow Blink: VPN is not configured
LAN green rate	Light On: network port's rate is 100Mb


Indicator Name	State Description
indicator	Light Off: network port's rate is 10Mb
LAN yellow signal indicator	Light On: no signal Light Off: get signal




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