



Technical Specification

H8922S 3G/4G Router



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1. Product Overview

H8922S 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, charging pile, bank ATM machine, POS machine, tower monitoring, business networking, electric, water conservancy, environmental protection 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

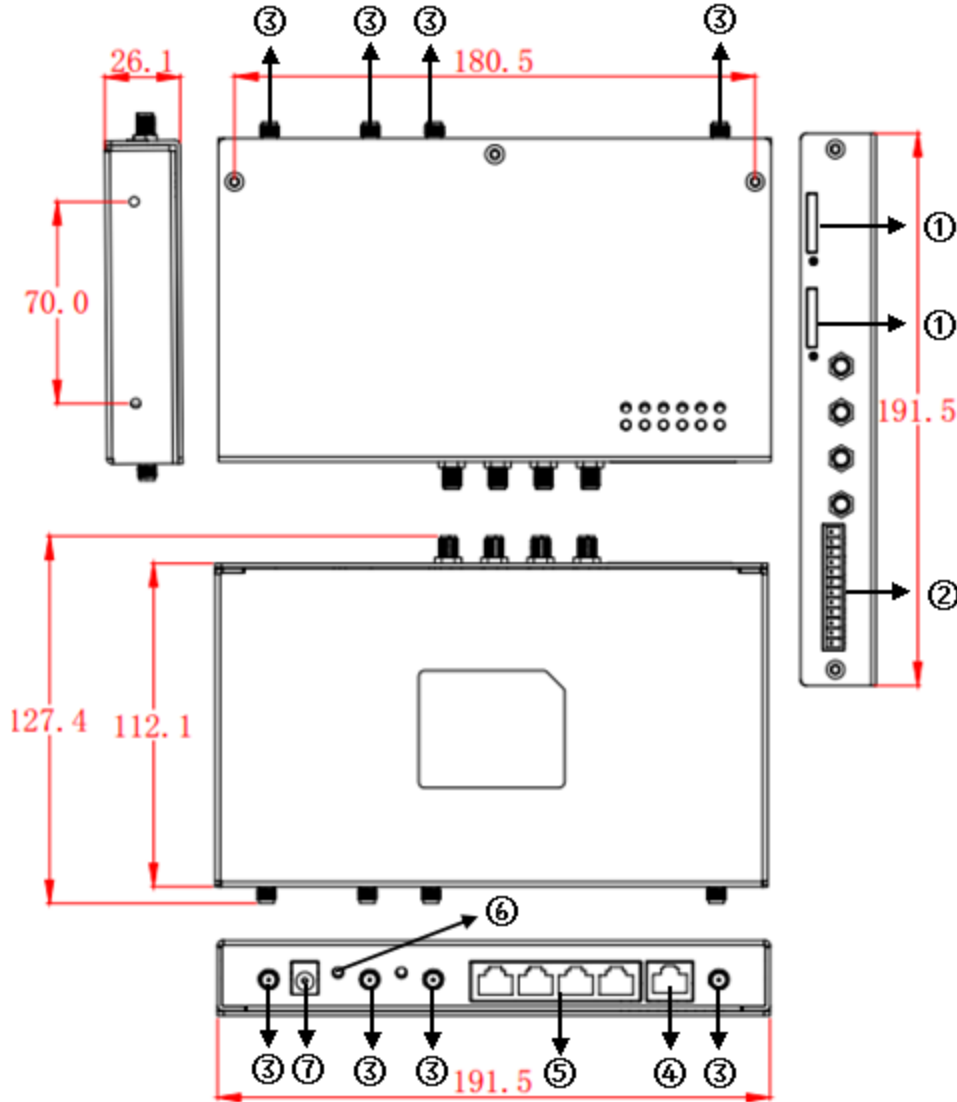
Specification Name	Description	Remarks
Product Name	H8922S	V12
Network Standard	4G	Choose different modules according to user's needs, support different network standards
Interface	Antenna interface	50Ω/SMA female connector
	SIM card	1.8V/3.0V
	Serial data port	RS-232/RS-485 (Optional)
	Serial data rate	RS-232:300-230400bps (115200bps default) RS-485:300-230400bps (115200bps default)
	Button	Support RESET button
	LAN interface	4×10/100Mb adaptive
	WAN interface	1×10/100Mb adaptive
Power Supply	Working voltage	+9V~+36V DC
Working Power	Dual mode idle status	About 170mA@12V DC
	Dual mode communication status	About 320mA@12V DC
Other	Weight (dual mode)	About 400g
	Size (without power line interface and bracket)	L x W x H (mm) 191.5×112.1×26.1
	Working environment temperature	-30~+75℃
	Storage temperature	-40~+85℃

Specification Name	Description	Remarks
	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	SIM card connector
②	Serial port(12 pin)
③	Antenna interface
④	WAN interface
⑤	LAN interface
⑥	RESET button
⑦	DC power socket

When using the 14 ~ 24AWG cable, the label description of the H8922S 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.

H8922S 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	GPIO	GND	GND	NC(PIN12)
TTL	GPIO	TTL level	TTL level	GPIO	High shutoff	GPIO	TTL level	TTL level	GPIO	Power ground	Power ground	NC
RS232	GPIO	RS232 level	RS232 level	GPIO	High shutoff	GPIO	RS232 level	RS232 level	GPIO	Power ground	Power ground	NC
RS485	GPIO	B	A	GPIO	High shutoff	GPIO	B	A	GPIO	Power ground	Power ground	NC

4. Panel Indicator Status


The front panel of the H8922S 4G Router has 12 LED indicator lights, indicating the working state and the network state of 4G Router H8922S. The description of indicator status shows in table 4-1.


Table 4-1


Indicator Name	State Description
RUN	On: system startup and normally run Off: system is not fully activated, such as just power on in 10 seconds, or in the restart process
WAN	On: network is connected normally via cable Blink: network port has data to send and receive Off: no network cable inserted or connecting abnormal with other devices through the cable
LAN1~4	On: Network connected normal and data forwarding is normal. Blink: network port has data to send and receive Off: no network cable inserted or connecting abnormal with other devices through the cable
SIG1~2	On: signal strength is well, value in 21 ~ 31 Fast blink (0.5s blink): signal strength is medium, value in 11 ~ 20 Slow blink (2s blink): the signal strength is poor, value in 1 ~ 10 Off: no signal
3G/4G1~2	On: dial-up success, access 3G/4G network Slow blink(2s blink): dial-up success, access 2G/2.5G/2.75G network Quick blink(0.5s blink):dialing Off: could not find the modem or dial-up is disabled
WLAN	On: 2.4G and 5G Wi-Fi are running in the same time. Slow blink: only 2.4G Wi-Fi is enabled Fast blink: only 5G Wi-Fi is enabled Off: 2.4G and 5G Wi-Fi are disabled
DATA	On: there is data transmitted Off: no data transmission



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