

SRP620 Series

Quick Start Guide

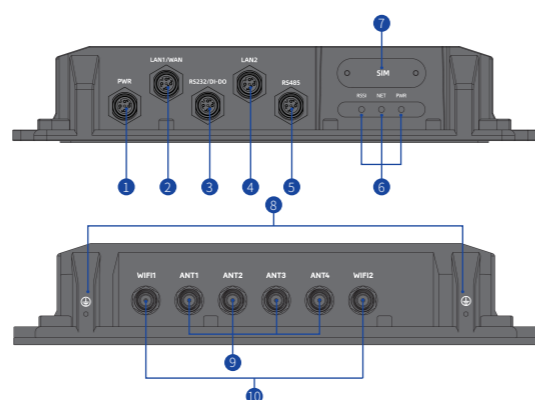
Welcome to the SRP Series

SRP series ruggedized outdoor router provides 5G NR service in a ruggedized form factor. With an operating temperature range of -40°C ~ 70°C endurance, they offer industrial-grade environmental qualifications while providing higher speed data services for video and other bandwidth-intensive applications. SRP series industrial router has very strong anti-vibration ability and it is qualified for extreme industrial environments and ideally suited for rail, transportation, mining, oil and gas, manufacturing, and other outdoor applications.

With the diverse self-developed 5G NR embedded modules integrated, SRP series industrial router can support multi-band for Private 5G NR, even support uncommon frequencies. SRP series industrial router can provide accurate real-time location information.

This document will serve as a quick start guide for SRP series ruggedized outdoor router. In this document, the SRP series ruggedized outdoor router will be replaced by the router.

Device Architecture



- 1 Power port
- 2 LAN2 port
- 3 SIM interface
- 4 LAN1/WAN port
- 5 RS485 port
- 6 Ground screws
- 7 RS232 and DIDO port
- 8 LED interface
- 9 5G NR antenna interface
- 10 WIFI antenna interface

Note1 The reset button is beside SIM interface, if press 1s, router will restart; If press on for 10s, the router will reset to factory defaults.

Note2 There are two white ground screws also at behind of device.

RS232/485 Cable Definition

RS232/485 cable definition				
Number	Colors	RS485	RS232+DIDO	
1	Orange&white	NC	DO2	
2	Orange	NC	DI2	
3	Green&white	RS_GND	DO1	
4	Blue	RS_GND	DI1	
5	Blue&white	RS_GND	RS_GND	
6	Green	RS_GND	RS_GND	
7	Brown&white	RS485_B	RS232_TX	
8	Brown	RS485_A	RS232_RX	

LAN/WAN Cable Definition

LAN/WAN cable definition			
Number	Colors	LAN/WAN	
1	Orange&white	MDI0+/RJ45-1	
2	Orange	MDI0-/RJ45-2	
3	Green&white	MDI1+/RJ45-3	
4	Blue	MDI2+/RJ45-4	
5	Blue&white	MDI2-/RJ45-5	
6	Green	MDI1-/RJ45-6	
7	Brown&white	MDI3+/RJ45-7	
8	Brown	MDI3-/RJ45-8	

Power Cable Definition

Power cable definition			
Number	Colors	PWR	
1	Red	PWR_Positive	
2	Black	PWR_GND	
3	NC	NC	
4	NC	NC	

Working Environment

Operating Temperature	-40°C ~ 70°C
Storage Temperature	-40°C ~ 85°C
Humidity	5% ~ 95%
Power Supply	9 ~ 36VDC
Power Consumption	<20W
Water and Dustproof	IP67

Packing List

Items	Accessories	Qty
1	A-Code cable to RJ45 jack ADC2 (Ethernet cable)	1
2	A-Code 8-Pin cable ADB1 (Data cable)	1
3	A-Code 4-Pin cable M12A (Power cable)	1
4	Mounting bolt	4
5	Grounding cable	1
6	Protective cap (TNC)	6
7	Protective cap (M12)	5

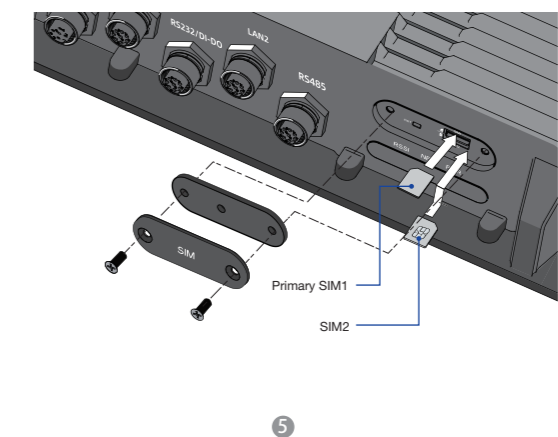
Hardware Configuration

Install SIM Cards

Step1 Use a cross screwdriver to remove the SIM card cover.

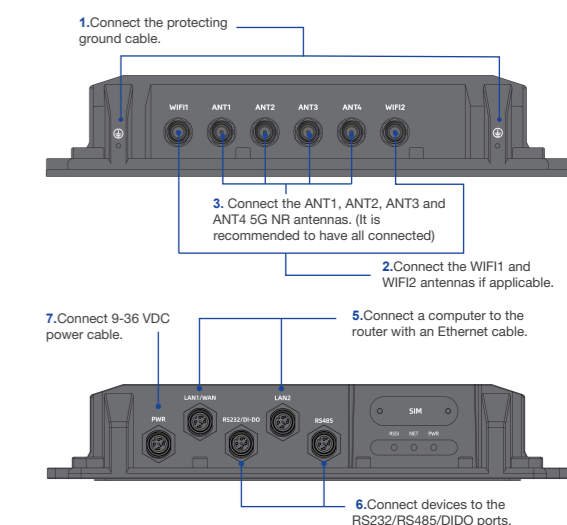
Step2 Slide the SIM cards into the SIM slots until they click into place. By default, the SIM card in slot 1 (the upper slot) is the Primary SIM card. When the SRP router is powered on or rebooted, it automatically connects to the network associated with the Primary SIM card.

Step3 Re-attach the cover.



Connect and Turn on the Router

Please connect the protecting ground cable as first step, connect 9-36 VDC power cable as the last step.



Connect to the Network

When the router is powered on, a green PWR LED may occur. This indicates that the power input is good.

Once the router's radio module is configured for the SIM card, it begins the activation/provisioning process and attempts to connect to the mobile network. This process typically takes several minutes. A successful connection is indicated by a solid green NET LED. And the strength of the RF signal can be indicated by the Signal LEDs in different quantity.

Indicator	Status	Description
PWR	Green	Power on
	Off	No power supply
NET	Green	Registered to network
	Off	Not register to network
	Blinking	Searching network
	Green	Signal strong
RSSI	Yellow	Signal good
	Red	Signal weak
	Off	No signal
	Red Blinking	No SIM or SIM error

Software Configuration

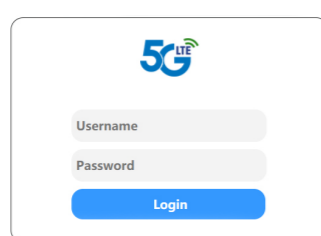
Login to the Web Management Page

Step1 Launch the web browser, enter http://192.168.1.1 in the address bar, and press Enter.



Step2 Enter the username and password, and click **Login**.

Step3 After the password is verified, you can login to the web management page.



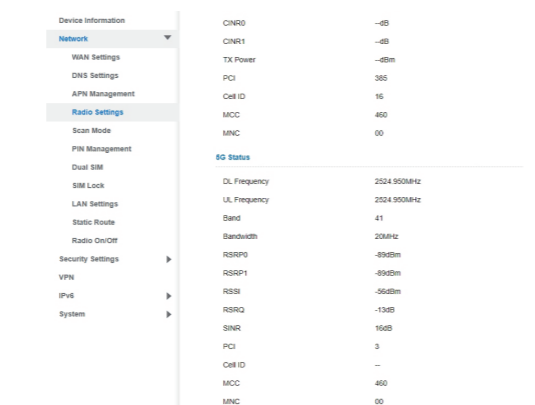
The default username and password are both **admin**. If you want to view or configure the router, you should use the super account to login to the web management page. The default super username is **superadmin**, and the password is **admin**.

Radio Settings

Step1 Choose **Network > Radio Settings**.

Step2 On **Radio Settings** page, you can set the configuration of 5G NR network.

Step3 In the **5G Status** list, you can view the 5G NR status, such as Frequency, RSI, RSRP, RSRQ, CINR, SINR, Cell ID and etc.



WLAN Settings

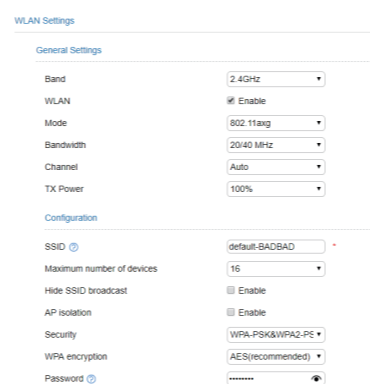
Step1 Choose **Settings -> Wi-Fi -> WLAN Settings**.

Step2 In the **General Settings** list, set Wi-Fi Enable or not Enable.

Step3 In the **SSID Profile** list, change the SSID, such as: "5G NR-Router".

Step4 To ensure data security, it is recommended that you change the Wi-Fi password.

Step5 Click Submit to save the settings.



FAQs

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Fails to Login the web management page.

- Make sure that the router is powered on.
- Verify that the router is correctly connected to the computer through Wi-Fi or a network cable.
- If the problem persists, please contact the authorized local service suppliers.

The router fails to search for the wireless network.

- Check if the power supply is connected properly.
- Check if the router is placed in an open area that is far away from obstructions, such as concrete or wooden walls.
- If the problem persists, please contact the authorized local service suppliers.

The parameters are restored to default values.

- If the router is powered off unexpectedly while being configured, the parameters may be restored to the default settings.
- After configure the parameters, download the configuration file and restore the desired settings quickly.

The router does not support SIM card hot-plug, please confirm that the device is powered off when the SIM card is inserted or removed.

- Make sure that the power cable is connected properly and the router is powered on.
- Make sure that the power supply is compatible with the router.

Labeling requirements. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modification warning. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: ①

- ① -Reorient or relocate the receiving antenna.
- ② -Increase the separation between the equipment and receiver.
- ③ -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ④ -Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA).

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.