

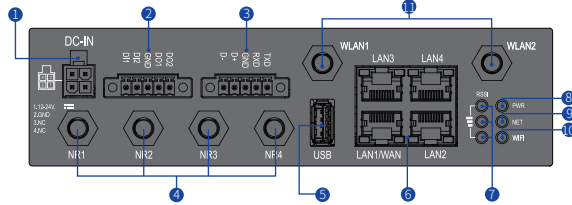
SRG821

Quick Start Guide

Welcome to the SRG Series

SRG series 5G industrial router provides 5G service in a ruggedized form factor. With an operating temperature range of $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$ endurance, they offer industrial-grade environmental qualifications while providing higher speed data services for video and other bandwidth-intensive applications. The SRG series industrial router is qualified for industrial environments and ideally suited for logistics, manufacturing, and other indoor applications.

Device Architecture



- 1 Power port
- 2 DI/DO port
- 3 RS232/485 port
- 4 Wan Antennas
- 5 USB interface
- 6 LAN port
- 7 Signal indicator
- 8 PWR interface
- 9 NET indicator
- 10 WIFI indicator
- 11 WLAN Antennas
- 12 Reset button

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 is one white ground screw hole also at the behind of the device.

Cable Definition

DI/DO Cable Definition		
	Number	Definition
	1	DI1
	2	DI2
	3	GND
	4	DO1
	5	DO2

RS232/485 Cable Definition		
	Number	Definition
	1	RS485 D-
	2	RS485 D+
	3	GND
	4	RS232 RXD
	5	RS232 TXD

DC-IN Cable Definition		
	Number	Definition
	1	12-24V, ---
	2	GND
	3	NC
	4	NC

Working Environment

Operating Temperature	$-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$
Storage Temperature	$-40^{\circ}\text{C} \sim 80^{\circ}\text{C}$
Humidity	5% ~ 95%
Power Supply	12 ~ 24VDC
Power Consumption	< 12W

Packing List

Items	Accessories	Qty
1	Ethernet cable	1
2	Power cable	1
3	5-pin terminal block	2
4	Mounting screw	10
5	Mounting kit	2
6	Mounting buckle	1
7	Grounding cable	1

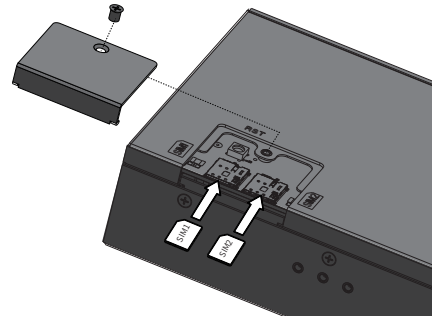
Hardware Configuration

Install SIM Cards

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

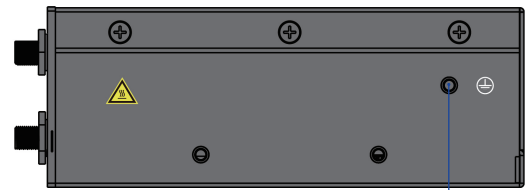
Step2 Slide the SIM cards into the SIM slots until they click into place. By default, the SIM card in slot 1 (the left slot) is the Primary SIM card. When the SRG router is powered on or rebooted, it automatically connects to the network associated with the Primary SIM card.

Step3 Re-attach the cover.



Connect and Turn on the Router

Please connect the protecting ground cable as first step, connect 12-24 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	Steady on	Power on
	Off	No power supply
NET	Steady on	Registered to network
	Off	Not register/SIM LOCK/PIN LOCK
	Blinking (500ms interval)	Network searching
WIFI	Steady on	WIFI enable
	Off	WIFI disenable
Signal	Steady on	Indicate the LTE signal, the stronger signal, the more LEDs on
	Off	No signal
	Blinking one by one	Firmware upgrade

Configure the CPE

Login to the website

You should use a web browser to access to the web management page to configure the CPE. The following procedures describe how to use a PC operates with Windows 7 or above OS and web browser to connect to the CPE web management page.

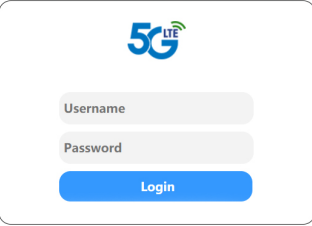
7

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. Please be aware: When you login to Web management page, you will see an un-safe notice beside to the URL bar and this is due to no built-in SSL Certificate in CPE. However, there's no problem about security so you may just ignore it.

Configuration of Radio

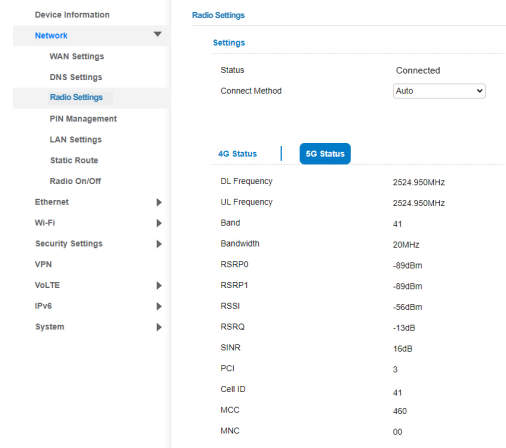
Step1 Connect the CPE correctly.

Step2 Enter the management website.

Step3 Choose **Advanced Setting** → **Network** → **Radio Settings**.

Step4 Set the connection mode and scan mode.

8



The default setting is Auto-Connect along with full-band scanning. If users would like to scan any specific bands, then please select band-lock setting.

Configuration of Wi-Fi

Step 1 Connect the CPE correctly.

Step 2 Enter the management website.

Step 3 Choose **Advanced Settings** → **Wi-Fi** → **WLAN Settings**.

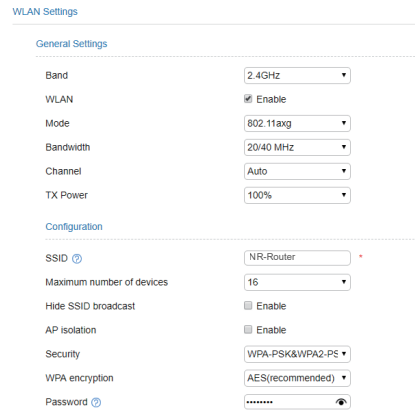
Step 4 In the **General Settings** list, set Wi-Fi Enable or enable Wi-Fi with the Wi-Fi button.

9

Step 5 In the **Configuration** list, change the SSID, such as: "NR-Router".

Step 6 To ensure user data security, it is highly recommended that you should change the default WiFi password when you login the CPE at the first time.

Step 7 Click Submit to save the settings.



FAQs

The POWER indicator does not turn on.

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

10

- Make sure that the power supply is compatible with the router.

Fails to Login the web management page.

- Make sure that the router is started.
- 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 CPE 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 .
- 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.

11

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.

FCC Regulations:

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 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:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/ TV technician for help. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

12

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF Exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for the transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

13