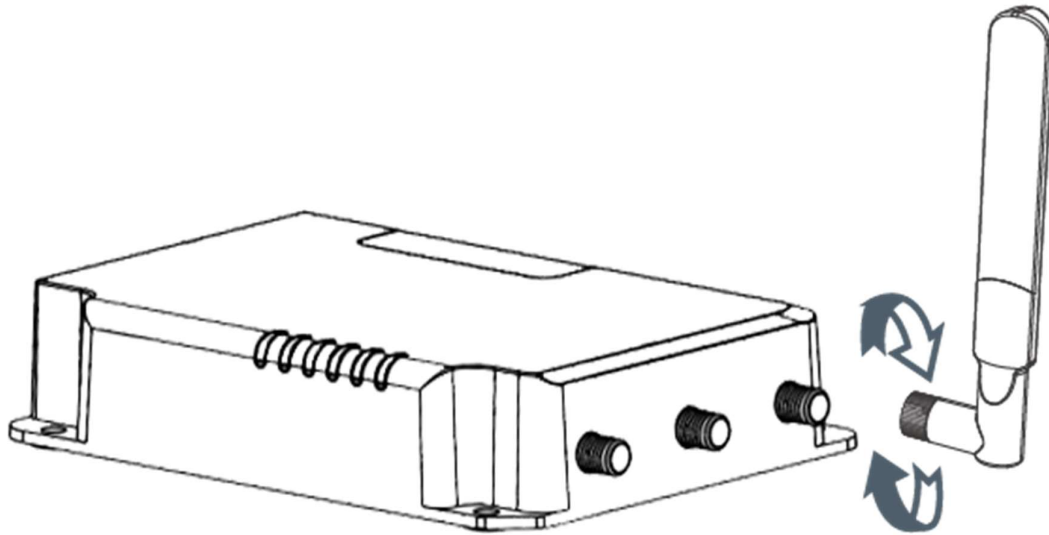
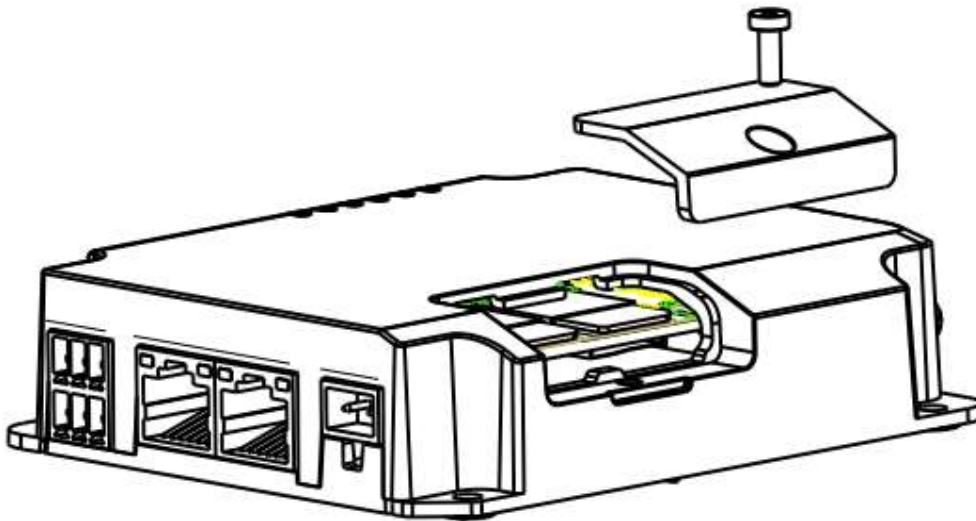


# Configuration

**Step 1.** Install all cellular antenna(s) onto MAIN/AUX/LTE port(s).



**Step 2.** Install SIM 2 to Mulesight router and SIM 1 to mobile phone. When installing to router, using a screwdriver to open SIM card slot shell, then insert SIM 2 to SIM card slot.



**Step 3.** Check the cellular network register status.







Access to Mulesight router's web GUI, go to **Status > Cellular**. Wait until the **Status** change to "Ready", which means the SIM has registered, and the status of **Network** change to "Connected", which means the router has connected to the Internet.

For your device security, please change the default password!						
Status	Overview	Cellular	Network	VPN	Routing	Host List
Network	Modem			Network		
	Status	Ready		Status	Connected	
System	Model	EC25		IP Address	10.38.105.13	
	Version	EC25AUFAR06A03M4G		Netmask	255.255.255.240	
Industrial	Current SIM	SIM1		Gateway	10.38.105.14	
	Signal Level	25asu (-63dBm)		DNS	0.0.0.0	
Maintenance	Register Status	Registered (Home network)		Connection Duration	0 days, 03:37:29	
APP	IMEI	861585044901765				

**Step 4.** Add phone number and phone group list, which are permitted to control the router.

Go to **System> Phone & SMS > Phone**, add the number of mobile phone SIM1. This will be the phone number of the mobile phone that will control the router.

Then create a phone group, select SIM1 phone number to phone group, click on **Save** and **Apply**.

For your device security, please change the default password!														
Status	Phone	SMS												
Network	Phone Number List													
System	<table> <tr> <th>Number</th><th>Description</th><th>Operation</th></tr> <tr> <td>+8613600000000</td><td>test</td><td></td></tr> <tr> <td></td><td></td><td></td></tr> </table>					Number	Description	Operation	+8613600000000	test				
Number	Description	Operation												
+8613600000000	test													
														
General Settings	Phone Group List													
Phone & SMS	<table> <tr> <td>Group ID</td><td>1</td></tr> <tr> <td>Description</td><td>1</td></tr> <tr> <td>List</td><td>Selected</td></tr> <tr> <td>+8613600000000</td><td>13600000000</td></tr> </table>					Group ID	1	Description	1	List	Selected	+8613600000000	13600000000	
Group ID	1													
Description	1													
List	Selected													
+8613600000000	13600000000													
User Management	<div>Save Cancel</div>													
SNMP	Save													
AAA														
Device Management														
Events														
Industrial														
Maintenance														

**Step 5.** Configure SMS center number and SMS content format.

Go to **Network > Interface > Cellular**, fill in proper SMS Center number with country dial-up code like "+1" or "+86". (SMS Center number can be acquired from cellular service provider)

Typical SMS Centre numbers

**Vodafone** +61415011501 <Verified>

**Optus** +61411990001 <Verified>

**Telstra** +61418706700 <Unverified>

## Milesight

For your device security, please change the default password!

Status

Network

Interface

DHCP

Firewall

QoS

VPN

IP Passthrough

Routing

VRRP

DDNS

System

Industrial

Link Failover

Cellular

Port

WAN

Bridge

Switch

Loopback

| Cellular Settings

SIM1

SIM2

APN

Username

Password

PIN Code

Access Number

Authentication Type

Network Type

PPP Preferred

SMS Center

Enable NAT

Roaming

Data Limit

Billing Day

Auto

Auto

☐

+8613801

☒

☒

0

 MB

Day 1

 of The Month

Auto

Auto

☐

☒

☒

0

 MB

Day 1

 of The Month

It is advised to enter the APN value for your SIM service in the SIM1 → APN entry.

Then go to **System>Phone & SMS > SMS**, choose **PDU** or **TEXT** as SMS mode. Then enable **SMS Remote Control**, choose **Authentication Type** and **Phone Group**. Click on **Save** and **Apply**. This step defines that only SIM 1 numbers of phone group 1 can send message to control this router.

## Milesight

For your device security, please change the default password!

Status

Network

System

General Settings

Phone & SMS

User Management

Phone

SMS

| General Setting

SMS Mode

SMS Remote Control

Authentication Type

Phone Group

PDU

☒

Phone

1

Save

**Note:**

- There are two SMS modes:

1) **Text**: Pure Text Mode, mainly used in Europe and America. Technically, it can also be used to send Short Messages in Chinese. When CLI commands will be sent to control the router, Text mode is recommended to choose.

2) **PDU**: It's the default encoding Mode for mobile phones, which conform to all mobile phones SMS format and can use any character.

2. For old UR models or firmwares, SMS setting is under **Network->Cellular**.

**Step 6.** Use router to send message to mobile phone.

Go to **System> Phone & SMS > SMS**, fill in mobile phone number with country dial-up code like "+86", and message content. Then click **Send**. The send out status be checked under **Outbox**.



For your device security, please [change the default password!](#)

Status

Network ▶

System ▼

General Settings

**Phone & SMS**

User Management

SNMP

AAA

Device Management

Events

Industrial ▶

Phone
SMS

**General Setting**

SMS Mode: PDU

SMS Remote Control: ☒

Authentication Type: Phone

Phone Group: 1

Save

**Send SMS**

Phone Number: +8617

Content: Hello

Send
Submitted to the sending queue successfully



For your device security, please [change the default password!](#)

Status

Network ▶

System ▼

General Settings

**Phone & SMS**

Phone
SMS

**Outbox**

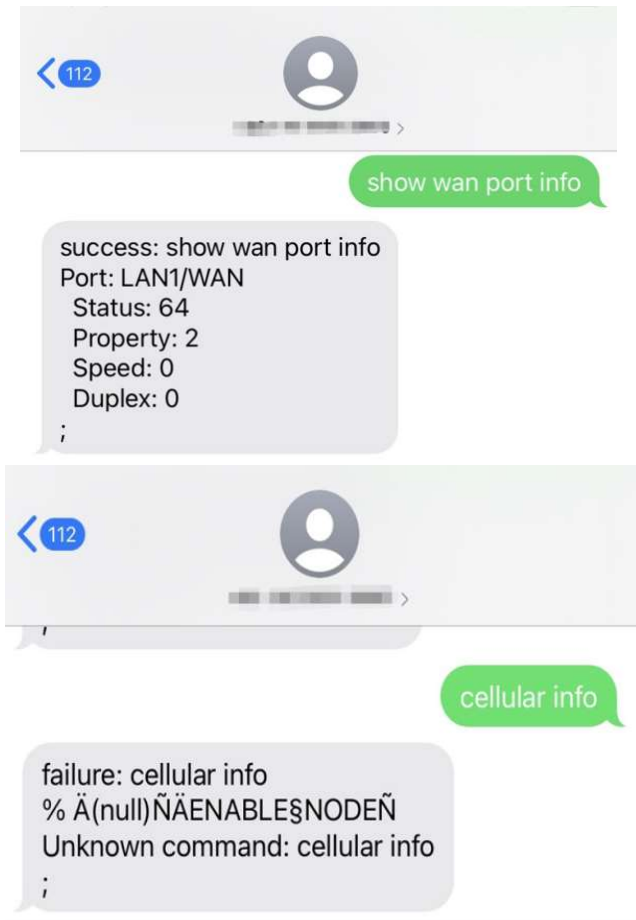
From:  To:  Recipient:  Search

Recipient	Time	Content	Status
+8617	2021-08-17 20:31:41	Hello	SUCCESS

**Step 7.** Send message from external mobile phone to Milesight router.

Here, we will send CLI message from the SIM 1 of mobile phone to control the router.

1) When a CLI message is sent correctly, mobile phone will receive a reply "success:[sent command]\n[returned value]\n;".



2) Otherwise, SIM1 will receive "failure:[sent content];". Each reply message will have a semicolon in the end.

**Note:**

1. Before sending CLI command to router, please click [this](#) to get available CLI commands from Mielight router CLI command documentation first.

2. When sending an SMS containing a series of commands to configure, please use a semicolon to split each command.

**e.g.:**

show WAN port info; enable; configure terminal; log global loglevel 7;

configure terminal; phone add number 17799999999;

3. When a single command being sent, which needn't end with a semicolon. Here are common single CLI commands used below:

- show user
- show wan port info

- reboot system now!
- ping google.com

4. The length of SMS in inbox is limited to 153 characters including spaces and punctuation  
Longer commands will be cut into 2 SMSs.