



ALL-RUT22GW

Compact Industrial 4G LTE Cellular Router



Quick Install Guide

1. **Default Values:**

IP-Address	192.168.1.1
User Name	root
Password	2wsx#EDC

2. **Hardware Installation Procedure**

- Insert the SIM card in the SIM card slot.
- Connect the 8-48V DC power adaptor to the Router and then plug the power adaptor into a DC outlet.
- To configure the Router, use an Ethernet cable to connect the Router directly to your computer's Ethernet interface.
- Connect the Router's Ethernet port to an Ethernet device.

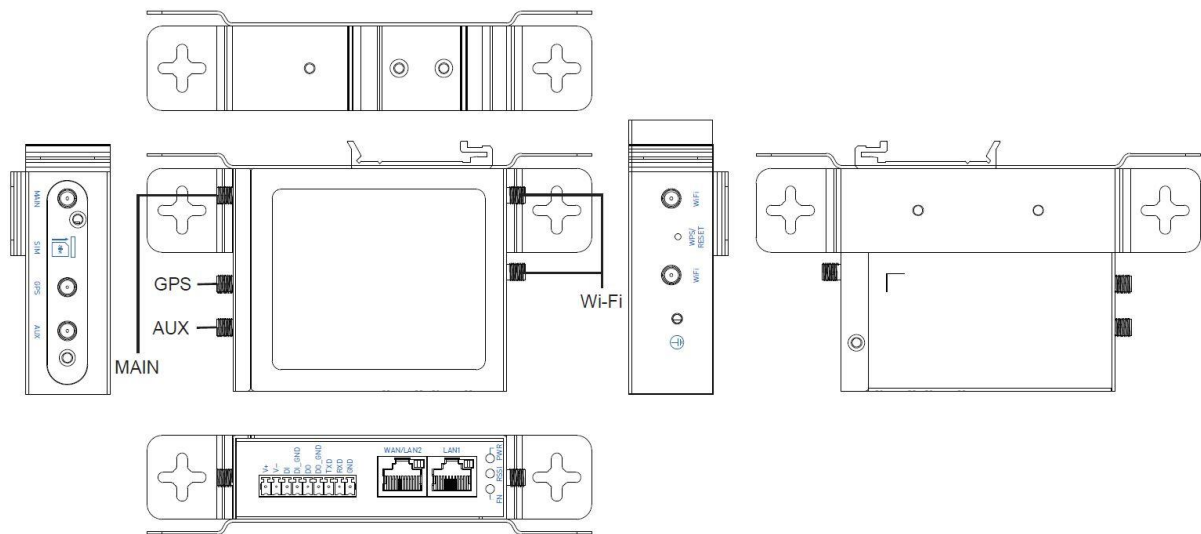
3. **Insert and Remove SIM Card**

- Before inserting or removing the SIM card, ensure that the power has been turned off and the power connector has been removed from ALL-RUT22GW.
- Insert the SIM card with right direction, or it will be stuck inside. Push the SIM card into the slot, and lightly press it to lock it in the slot.



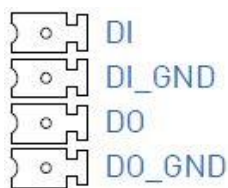
- To remove the SIM card, lightly press the SIM card and it will pop out.

4. Mechanical Dimensions



5. Connecting I/O Ports

The unit has four terminals on the terminal block for the digital inputs and outputs.



PIN	Description
DI	Digital Input
DI_GND	
DO	Digital Output
DO_GND	

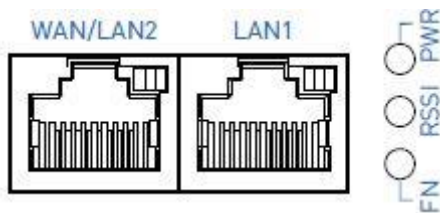
- DI: Low (+0 to +5V) / High (+8 to +40V)
- DO: Open Collector (maximum 30V/300mA)

6. LED Indicators

LED	RSSI	FN	PWR
On	High Signal	VPN connected	Power On
Slow Blinking	Medium Signal / Reset	Internet connected / Reset	N/A
Fast Blinking	Low Signal / Reset to Default	System Booting / Reset to Default	N/A
Off	Error	N/A	Power Off
Heart Beat	WPS Processing	Wi-Fi connected	N/A

7. Ethernet Port

- 10/100 Mbps Ethernet LAN/WAN**



The LAN and WAN interface are standard RJ45 connectors.

PIN	Description	Function
1	TX+	10/100 Mbps, Tx+ Pin
2	TX-	10/100 Mbps, Tx- Pin
3	RX+	10/100 Mbps, Rx+ Pin
4	N/A	N/A
5	N/A	N/A
6	RX-	10/100 Mbps, Rx- Pin
7	N/A	N/A
8	N/A	N/A

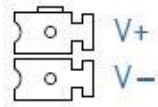
- LED Indicator of Ethernet Port**

Each Ethernet Port has one LED indicator.

LED	Status	Description
Green (Link / ACT)	Off	Connection is down.
	Blink	Data is being transmitted.
	On	Connection is up.

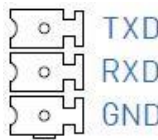
8. Connecting the Power Supply

DC power supplies in the range of 8-48V DC.



PIN	Power (8-48V DC)
V+	Positive
V-	Negative

9. UART (RS-232)



PIN	Power (8-48V DC)
TXD	Transmit Data
RXD	Receive Data
GND	Signal Ground

10. WPS / Reset Button

Reset button allows you to reboot the unit or restore to factory default setting.



Function	Operation
WPS Processing	Press the button less than 5 seconds.
Reset	Press the button for 5-10 seconds.
Reset to default settings	Press the button for more than 10 seconds.

11. Setup

a.) Access the Web Configurator

- Enter default LAN IP **192.168.1.1** as URL in your web browser.



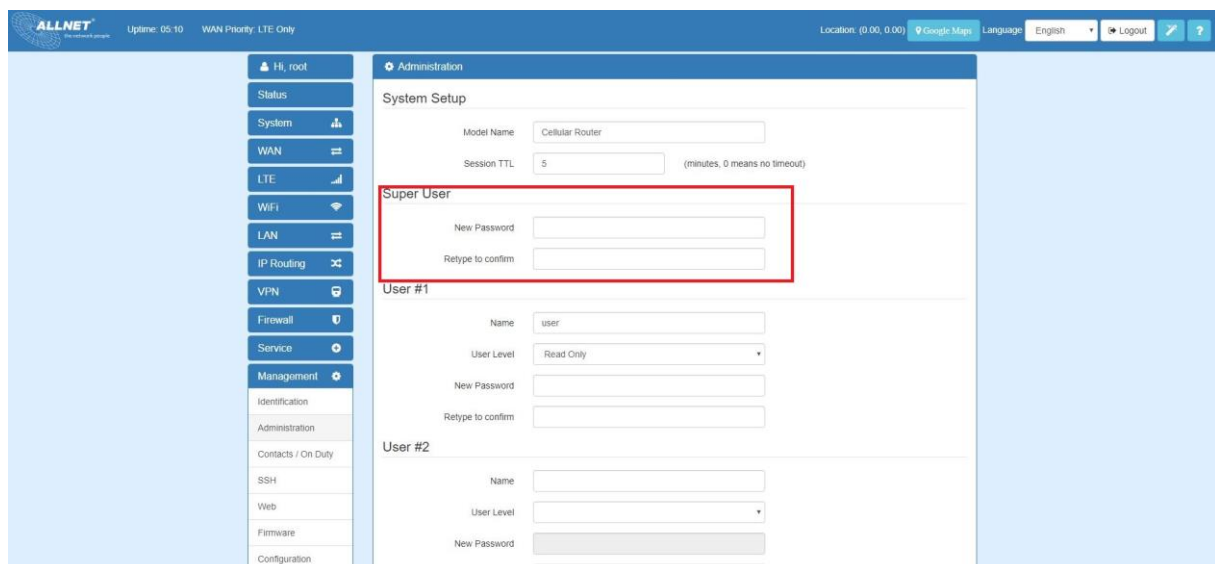
- For logging in the router, please enter the user name **root** and the password **2wsx#EDC** and then click **Login**.



b.) Change Password

Go to the **Management > Administration** and enter the desired **New password**. Scroll down and click the **Apply** button.

Note: Please avoid easy to guess passwords (e.g. admin, root, 1234, ...)



c.) LTE configuration

Go to the **LTE > LTE Config** web page to check the LTE configuration as follows:



ALLNET
Uptime: 09:50 WAN Priority: LTE Only Location: (0.00, 0.00) Google Maps Language: English Logout

Hi, root

Status

System

WAN

LTE

LTE Config

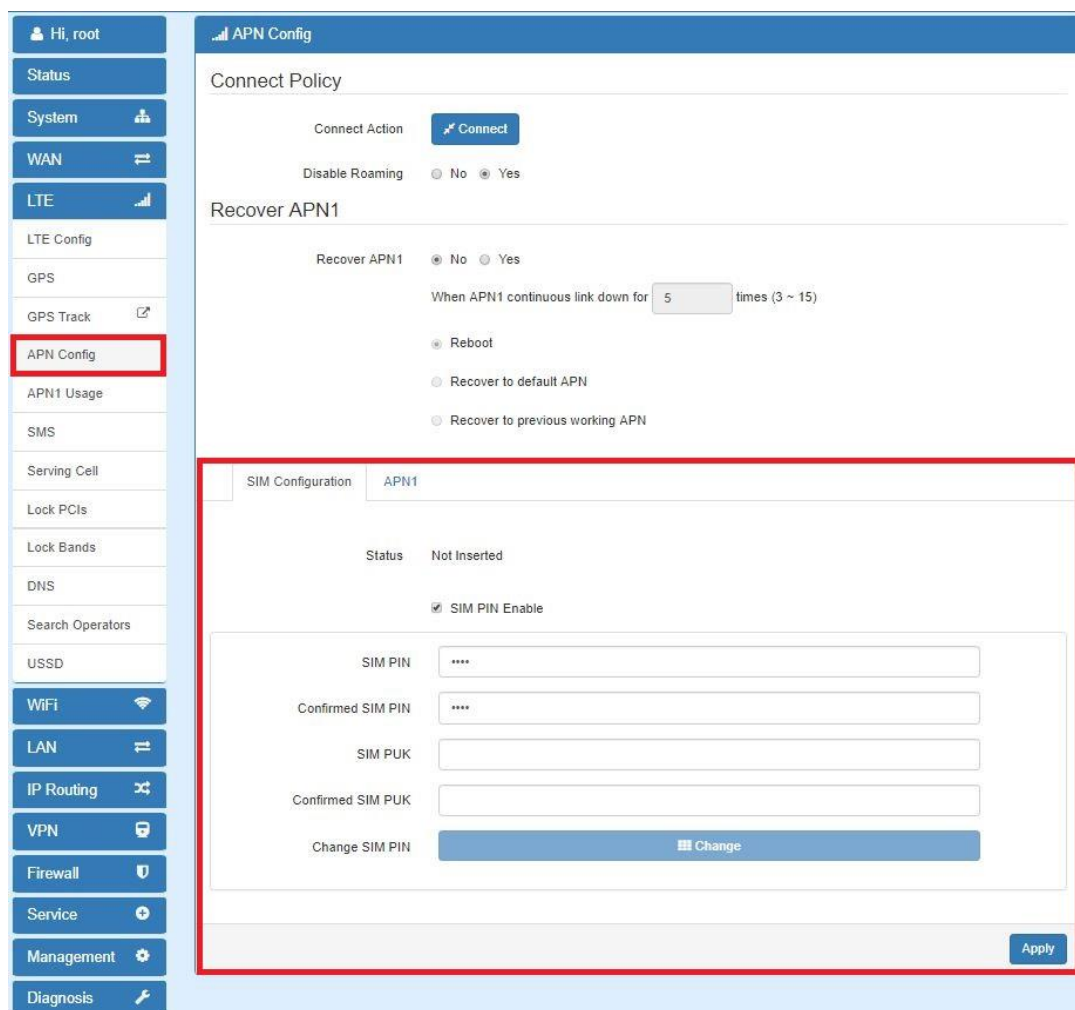
LTE Config: Auto (Change this field require rebooting)

MTU: 1500 (min: 700, max: 1500)

Apply

d.) SIM configuration

Go to the **LTE > APN Config** web page to check the LTE configuration as follows:



Hi, root

Status

System

WAN

LTE

LTE Config

GPS

GPS Track

APN Config

APN1 Usage

SMS

Serving Cell

Lock PCIs

Lock Bands

DNS

Search Operators

USSD

WiFi

LAN

IP Routing

VPN

Firewall

Service

Management

Diagnosis

APN Config

Connect Policy

Connect Action: Connect

Disable Roaming: No Yes

Recover APN1

Recover APN1: No Yes

When APN1 continuous link down for 5 times (3 ~ 15)

Reboot

Recover to default APN

Recover to previous working APN

SIM Configuration

APN1

Status: Not Inserted

SIM PIN Enable

SIM PIN: ****

Confirmed SIM PIN: ****

SIM PUK:

Confirmed SIM PUK:

Change SIM PIN: Change

Apply

e.) DNS configuration

Go to the **WAN > IPv6 DNS** and **LTE > DNS** web page to check the DNS configuration as follows:

Hi, root

Status

System

WAN

Priority

Ethernet

WiFi STA

IPv6 DNS

IPv6 DNS

APN1 DNS Server Configuration

IPv6 DNS Server #1 From ISP

IPv6 DNS Server #2 From ISP

IPv6 DNS Server #3 From ISP

Apply

Hi, root

Status

System

WAN

LTE

LTE Config

GPS

GPS Track

APN Config

APN1 Usage

SMS

Serving Cell

Lock PCIs

Lock Bands

DNS

DNS

APN1 DNS Server Configuration

IPv4 DNS Server #1 From ISP

IPv4 DNS Server #2 From ISP

IPv4 DNS Server #3 From ISP

Apply

f.) LAN configuration

Go to the **LAN > IPv4** web page to check the LAN configuration as follows:

The screenshot displays the LAN IPv4 configuration interface. On the left sidebar, the 'IPv4' menu item is highlighted with a red box. The main configuration area shows the following settings:

- IP Address:** 192.168.1.1 (highlighted with a red box)
- IP Mask:** 255.255.255.0
- DHCP Server Configuration:**
 - DHCP Server:** On (toggle switch)
 - IP Address Pool:** From 192.168.1.20 To 192.168.1.25 (highlighted with a red box)
- Static IP Addresses:** A button labeled '+ Add Static IP Address' is present.

An 'Apply' button is located at the bottom right of the configuration area.

g.) Status

Go to the **Status** web page to verify the router status (WAN LTE / LTE APN1 DNS / WAN Ethernet / LAN Ethernet) as follows:

Note: The remarked Key fields (in red) are showing you that the LTE, IP and DNS LAN Status are OK.

Hi, root	DO
Status	
System	
Time and Date	
Logging	
Alarm	
Ethernet Ports	
Client List	
WAN	
LTE	
WiFi	
LAN	
IP Routing	
VPN	
Firewall	
Services	
Management	
Diagnosis	

Attr	Value
Status	Alarm OFF

Attr	Value
Latitude	0
Longitude	0
Horizontal	0
Altitude	0
Date	
Time	
Satellite	0

Attr	Value
Modem Status	Ready
Operator	T-Mobile (Germany)
Modem Access	20201104011030
MSISDN	+4917124184239
Band	WCDMA 2100
EASSTON	10813
PLAN	20201
Roaming	No
Uplink Speed Kbps	0.000
Downlink Speed Kbps	0.000
Traffic Kbytes	177.000/302.000
Traffic Dropped Packets	0/0
LTE Net Mode	Router Only

Attr	Value
IPv4 Address	10.152.135.107
IPv4 Mask	255.255.255.248
Default Gateway	10.152.135.105
Connected	Yes
IPv4 Conn Time	10.47
Uplink Speed Kbps	0.000
Downlink Speed Kbps	0.000
Traffic Kbytes	177.000/302.000
Traffic Dropped Packets	0/0

Attr	Value
IPv4 DNS Server #1	10.152.135.210
IPv4 DNS Server #2	10.152.135.211
IPv4 DNS Server #3	
IPv6 DNS Server #1	2a01:598:7f0:10:74:210:210
IPv6 DNS Server #2	2a01:598:7f0:10:74:210:211
IPv6 DNS Server #3	

Attr	Value
IPv4 Address	
IPv4 Mask	
Default Gateway	
IPv4 Conn Time	00:00

Attr	Value
IPv4 Address	
IPv4 Mask	
Default Gateway	
IPv4 Conn Time	00:00
SSID	
MAC Address	
Channel	0

Attr	Value
IPv4 Address	192.168.1.1
IPv4 Mask	255.255.255.0
IPv6 Address	2a01:598:500:500:1
IPv6 Conn Time	14:00
Uplink Speed Kbps	0.000
Downlink Speed Kbps	3.000
Traffic Kbytes	2960.000/575.000
Traffic Dropped Packets	0/0

Attr	Value
Connected Clients	0

Attr	Value
OpenVPN	0
IPSec	0
GRE	0
PPTP Server	0
L2TP	0

Note:

- All default settings should work properly, so there is no need to change the values for this Quick Install Guide (except Pin settings)
- If you are experiencing connection issues or want to try a custom configuration, please refer to the User Manual for more information.

12. Safety Instructions

For your safety, be sure to read and follow all warning notices and instructions.

- Do not open the device. Opening or removing the device cover can expose you to dangerous high voltage points or other risks. Only qualified service personnel can service the device. Please contact your vendor for further information.
- Do not use your device during a thunderstorm. There may be a risk of electric shock brought about by lightning.
- Do not expose your device to dust or corrosive liquids.
- Do not use this product near water sources.
- Make sure to connect the cables to the correct ports.
- Do not obstruct the ventilation slots on the device.

13. CE & GPL

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<http://ce.allnet.de/>

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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