

# Quick Start Guide Router

Here you will find an overview of the various components found on the front and back sides of a RUT950 device, basic hardware installation, first login information, device specifications and general safety information. It is highly recommended that you acquaint yourself with the Quick Start Guide before using the device.



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## Front view

### No. Description

- 1 LAN Ethernet ports
- 2 WAN Ethernet port
- 3 LAN LEDs
- 4 WAN LED
- 5 Power socket
- 6 Power LED
- 7 Mobile connection status LED
- 8 Mobile signal strength indication LEDs



## Back view

### No. Description

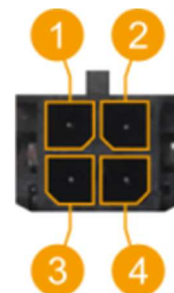
- 1 LTE antenna connectors
- 2 WiFi antenna connectors
- 3 Reset button
- 4 SIM card slots



## Connectors

### Power socket pinout

No.	Description	Wire color
1	Power	Red
2	Ground	Black
3	I/O	Green
4	I/O	White



## Connection status LED

The **connection status LED** is located on the bottom right corner of the front panel, to the left of the signal strength indication LEDs:



The LED displays the router's current connection state and network type among a few other things:

ACTION	DESCRIPTION
<b>Green and red</b> blinking alternatively ever 500 ms	No SIM or bad PIN
<b>Green, red and orange</b> blinking alternatively every 500 ms	Connecting to GSM
<b>Red</b> blinking every 1 sec	Connected 2G, no data session established
<b>Orange</b> blinking every 1 sec	Connected 3G, no data session established
<b>Green</b> blinking every 1 sec	Connected 4G, no data session established
<b>Red</b> lit and blinking rapidly while data is being transferred	Connected 2G with data session
<b>Orange</b> lit and blinking rapidly while data is being transferred	Connected 3G with data session
<b>Green</b> lit and blinking rapidly while data is being transferred	Connected 4G with data session

## Signal strength LEDs

The **signal strength LEDs** are located on the bottom right corner of the front panel, to the right of the connection status LED:



Each lit up LED represents a different value of the router's current signal strength in [RSSI](#):

NO. OF LIT UP LEDs	SIGNAL STRENGTH VALUE
0	$\leq -111$ dBm
1	-110 dBm to -97 dBm
2	-96 dBm to -82 dBm
3	-81 dBm to -67 dBm
4	-66 dBm to -52 dBm
5	$\geq -51$ dBm

## Hardware installation

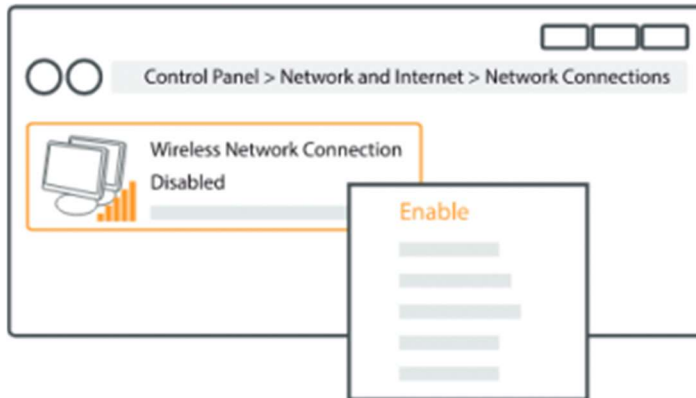
1. Remove the SIM card slot tray(s) with the pin needle. Insert your SIM card(s) and push the tray(s) back into the router. Correct SIM card orientation can be seen in the figure below:



2. Attach LTE and WiFi antennas
3. Connect the power adapter to the power socket located on the front panel of the device. Then plug the other end of the power adapter into a power outlet.
4. Connect to the device wirelessly (SSID: RUT950\_\*\*\*\*) or use an Ethernet cable.

## Configure your computer (Windows)

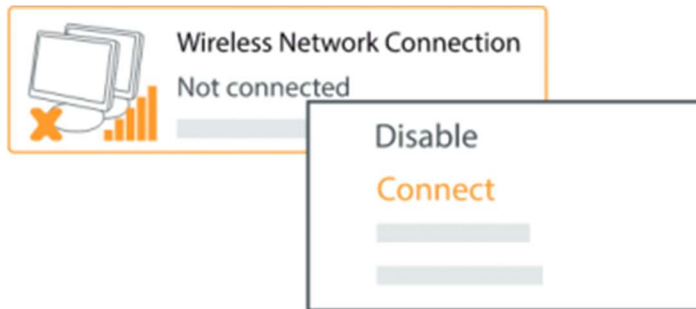
1. Enable the wireless network connection (go to **Start** → **Control Panel** → **Network and Internet** → **Network and Sharing Center**. In the left panel click the **Change adapter settings** link. Right click on **Wireless Network Connection** and select **Enable**).



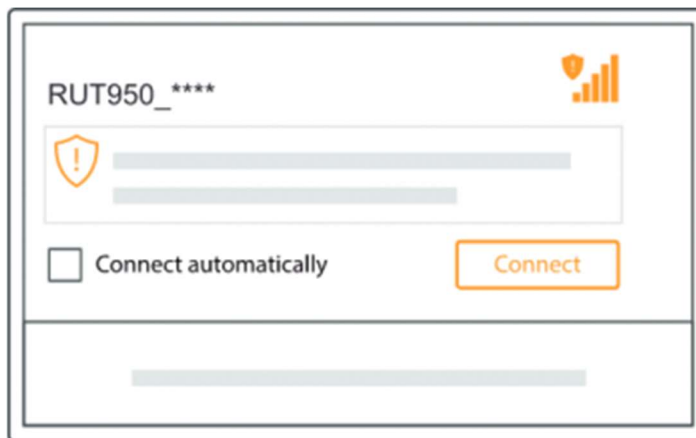
2. Setup wireless network adapter on your computer (right click on **Wireless Network Connection** and select **Properties**. After that select **Internet Protocol Version 4 (TCP/IP)** and click **Properties**).
3. Select **Obtain IP address** and **Obtain DNS server address automatically** if they are not selected. Click **OK**.



4. Right click on **Wireless Network Connection** and select **Connect** to see available wireless networks.

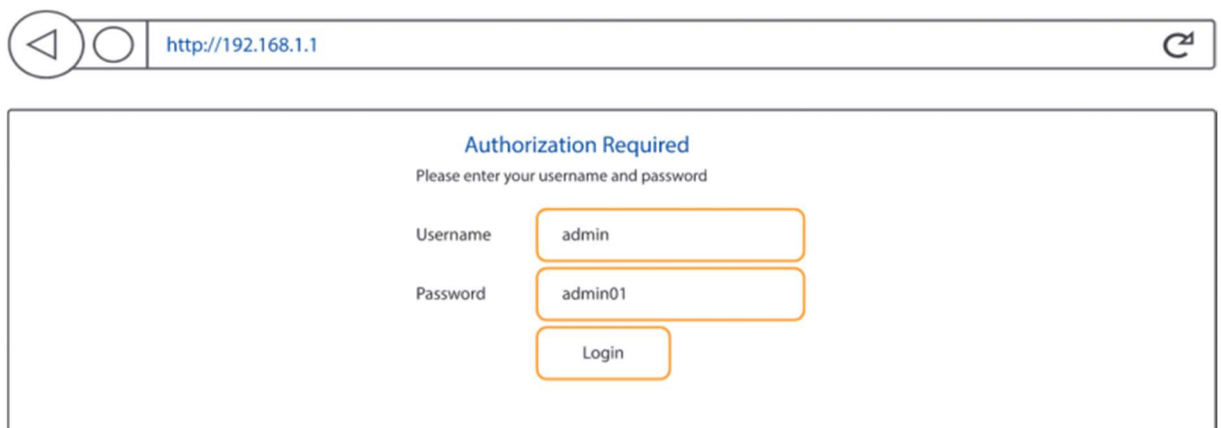


- Choose the wireless network **RUT950\_\*\*\*\*** from the list and click **Connect**. Enter the WiFi password located on the device's label.




## Login to device

- To enter the router's Web interface (WebUI), type `http://192.168.1.1` into the URL field of your Internet browser.
- Use the following login information when prompted for authentication:



3. After you login, you will be prompted to change your password for security reasons. The new password must contain at least 8 characters, including at least one uppercase letter, one lowercase letter and one digit. This step is mandatory and **you will not be able to interact with the router's WebUI before you change the password.**
4. When you change the router's password, the Configuration Wizard will start. The **Configuration Wizard** is a tool used to setup some of the router's main operating parameters.
5. Go to the **Status** → **Network** page and pay attention to the **Signal Strength** indication. To maximize cellular performance try adjusting the antennas or changing the location of your device to achieve the best signal conditions (you can find information on signal strength recommendations [here](#)).

Mobile	WAN	LAN	Wireless	OpenVPN
<b>Mobile Information</b>				
Mobile 				
Data connection state			Connected	
IMEI			860461024004296	
Sim card state			OK	
Signal strength			-44 dBm	

## Safety information

The RUT950 router must be used in compliance with any and all applicable national and international laws and with any special restrictions regulating the utilization of the communication module in prescribed applications and environments.

### Radio specifications

RF technologies	GSM, GPRS, EDGE, UMTS/HSPA+, LTE, WiFi
Max. RF power	33 dBm@GSM, 24 dBm@WCDMA, 23 dBm@LTE, 20 dBm@WiFi

### Bundled accessories specifications\*

Power	AC/DC power adapter 9 V 1 A, 4 pin plug
GSM/WCDMA/LTE antenna	698~960/1710~2690 MHz, 50 Ω, VSWR < 3, gain** 3 dBi, omnidirectional, SMA male connector
WiFi antenna	2400~2483.5 MHz, 50 Ω, VSWR < 2, gain** 5 dBi, omnidirectional, RP-SMA male connector

\* Order code dependent.



\*\* Higher gain antenna can be connected to compensate for cable attenuation when a cable is used. The user is responsible for the compliance with the legal regulations.



This sign on the package means that is necessary to read the User's Manual before you start using the device



This sign on the package means that all used electronic and electric equipment should not be mixed with general household waste



Hereby, Teltonika declares that the radio equipment type RUT950 is in compliance with [Directives](#): 2014/53/EU, 2014/35/EU, 2014/30/EU. The full text of the EU declaration of conformity is available at the following internet address:

<http://teltonika.lt/product/rut950/>