

RUT850 First Start

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This Wiki page contains the online version of the **Quick Start Guide (QSG)** for the **RUT850 LTE Router**. Here you will find an overview of the various components found on the front and back sides of a RUT850 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. If you own a RUT850 device, you can also find a printed version of the Quick Start Guide in the device's package.




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Front view

| No. | Description |
|-----|--|
| 1 | Power LED |
| 2 | SIM holder |
| 3 | Reset button |
| 4 | WiFi LED |
| 5 | Mobile network type LEDs |
| 6 | Mobile signal strength indication LEDs |



Back view

| No. | Description |
|-----|------------------------|
| 1 | Power Connector |
| 2 | GPS antenna connector |
| 3 | LTE antenna connectors |




Connectors

Power socket pinout


| No. | Description | Wire color |
|-----|---------------|------------|
| 1 | Not connected | White |
| 2 | Ignition | Green |
| 3 | Ground | Black |
| 4 | Power | Red |



Hardware installation

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

2. Attach LTE and GPS 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: RUT850_****).

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.



5. Choose the wireless network **RUT850_****** from the list and click **Connect**. Enter the WiFi password located on the device's label.



Login to device

1. To enter the router's Web interface (WebUI), type `http://192.168.1.1` into the URL field of your Internet browser.
2. 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](#)).



Safety information

The RUT850 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, GNSS, WiFi |
| Max. RF power | 33 dBm@GSM, 24 dBm@WCDMA, 23 dBm@LTE, 20 dBm@WiFi |


Bundled accessories specifications*


| | |
|-----------------------|--|
| GSM/WCDMA/LTE antenna | 690/900/1800/1900/2100/2700 MHz, 50 Ω, VSWR < 3.2, gain** 3.5 dBi, omnidirectional, FAKRA D female connector |
| GNSS antenna | 1575.42~1602 MHz, 2.2-5 VDC, VSWR < 1.5, active total gain** 26 dB (typ.), RHCP polarization, FAKRA C female 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 RUT850 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: <https://teltonika-networks.com/product/rut850/>