




TELTONIKA RUTX14 CAT12 Cellular IoT Router User Guide

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TELTONIKA RUTX14 CAT12 Cellular IoT Router



Product Information

RUTX14

The RUTX14 is a router that features RF technologies such as 3G, 4G, GNSS, WiFi, and BLE. It has a maximum RF power of 24 dBm@WCDMA, 23 dBm@LTE, 23 dBm@WiFi and 10 dBm@BLE. The router comes with bundled accessories such as a power adapter and a mobile antenna that supports 698~960 / 1710~2690 MHz frequency range with 50 impedance and VSWR.

Front View

- WAN type LEDs
- SIM needle
- Power socket
- Power LED
- SIM holders
- Reset button
- WiFi band LEDs
- LAN Ethernet ports
- WAN Ethernet port
- Mobile MAIN antenna connector

Back View

- GPS antenna connector
- Mobile AUX connector antenna connector
- Mobile AUX antenna connector
- Grounding screw
- Mobile AUX antenna connector USB port
- WiFi antenna connectors
- Bluetooth antenna connector

Product Power Socket Pinout

The power socket has four wires:

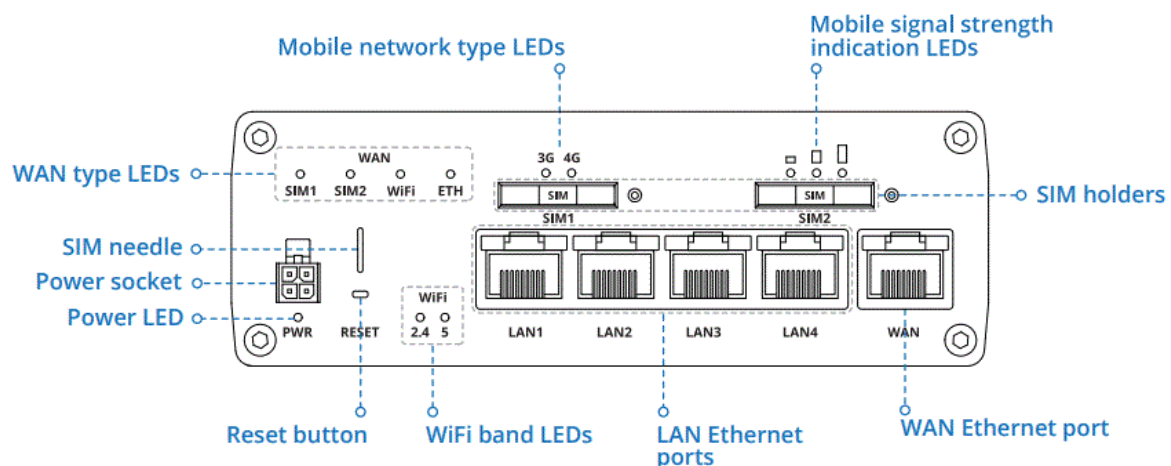
- Power / Red wire Input / Green wire
- Ground / Black wire Output / White wire

Product Usage Instructions

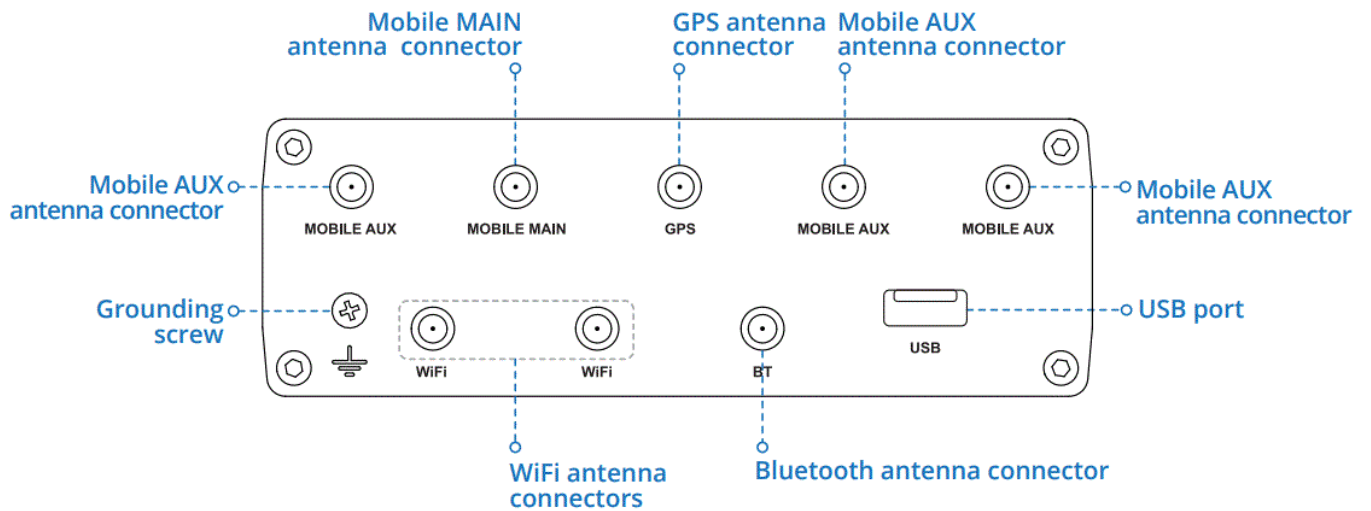
1. **Hardware Installation:** Please refer to the user manual provided with the product for hardware installation instructions.
2. **Login to Device:** Connect the router to a power source and wait for the power LED to turn on. Connect your device to the router using an Ethernet cable or via WiFi. Open a web browser and type in the default IP address (192.168.1.1) in the address bar. Enter the default login credentials (admin/admin01) to log in to the device.
3. **Technical Information:** To check the technical information of the device, log in to the device and navigate to the 'Status' tab. Here, you can find details about the data connection state, SIM card slot in use, and bytes received/sent.

OVERVIEW

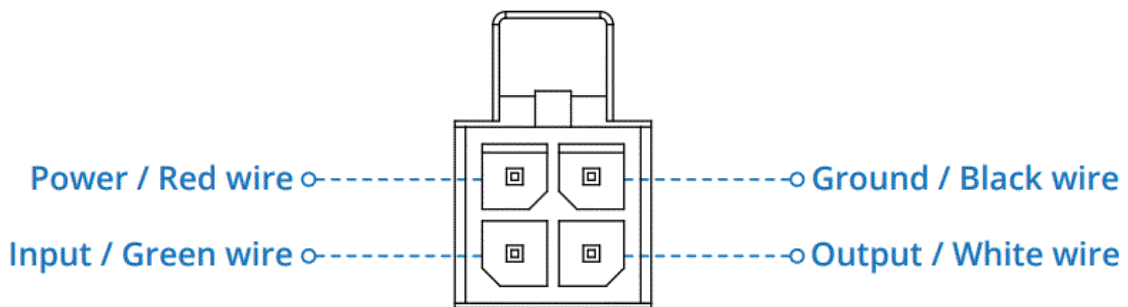
FRONT VIEW



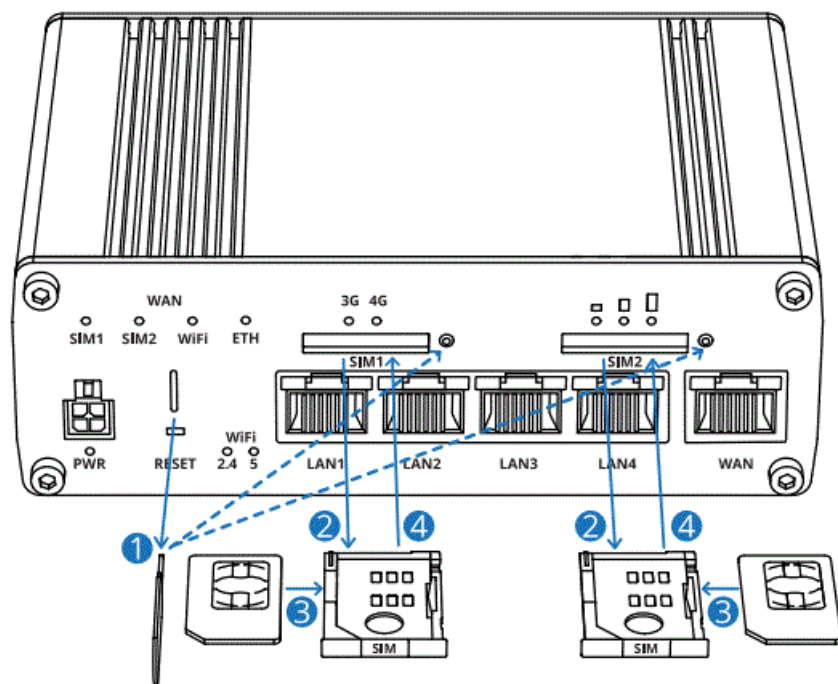
BACK VIEW



POWER SOCKET PINOUT



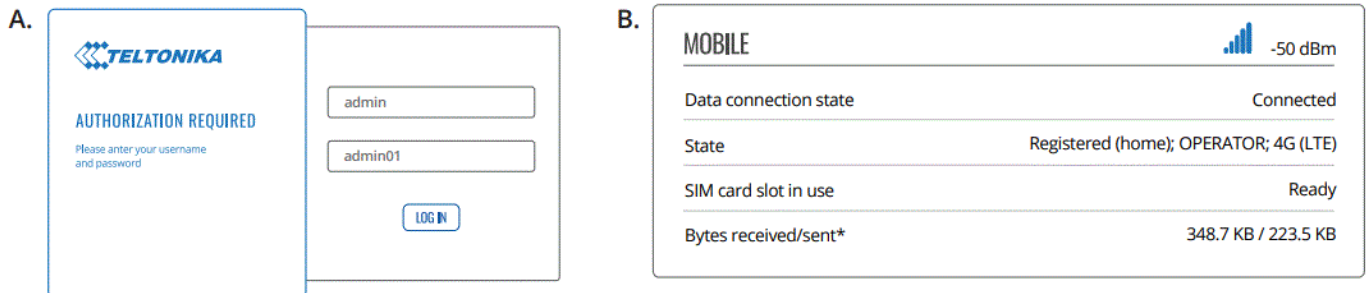
HARDWARE INSTALLATION



1. Pull out the SIM needle from the front panel of the router and push the SIM holder button with the SIM needle.
2. Pull out the SIM holder.
3. Insert your SIM card into the SIM holder.

- Slide the SIM holder back into the router.
- Attach all antennas.
- Connect the power adapter to the socket on the front of the device. Then plug the other end of the power adapter into a power outlet.
- Connect to the device wirelessly using SSID and password provided on the device information label or use an Ethernet cable connected to LAN port.

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 login information shown in image A when prompted for authentication.
- After you log in, 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.
- When you change the router's password, the Configuration Wizard will start. The Configuration Wizard is a tool used to set up some of the router's main operating parameters.
- Go to the Overview page and pay attention to the Signal Strength indication (image B). To maximize the cellular performance try adjusting the antennas or changing the location of your device to achieve the best signal conditions.

TECHNICAL INFORMATION

Radio specifications	
RF technologies	3G, 4G, GNSS, WiFi, BLE
Max RF power	24 dBm@WCDMA, 23 dBm@LTE, 23 dBm@WiFi 10 dBm@BLE
Bundled accessories specifications*	
Power adapter	Input: 0.6 A@100-240 VAC, Output: 12 VDC, 1.5 A, 4 pin plug
Mobile antenna	698~960 / 1710~2690 MHz, 50 Ω , VSWR<3, gain** 3 dBi, omnidirectional, SMA male connector
GNSS antenna	1575.42~1602 MHz, 2.2~5 VDC, VSWR<1.5, active total gain** 28 dB (typ.), RHC P polarization, SMA male connector
WiFi antenna	400~2483.5 MHz/5150~5905 MHz, 50 Ω , VSWR<2.0, gain** 3.0 dBi, omnidirectional, RP-SMA male connector
BLE antenna	2400~2500 MHz, 50 Ω , VSWR<2.5, gain** 2.5 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.

SAFETY INFORMATION

RUTX14 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.

Hereby, TELTONIKA NETWORKS declares that this RUTX14 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following Internet address:

https://wiki.teltonika-networks.com/view/RUTX14_CE/RED

Instruction Manual: Connect the power adapter to turn on the device. Open 192.168.1.1 in your web browser to configure it. More information on <https://wiki.teltonika-networks.com/>



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



This sign means that product meets the requirements of the applicable EU directives.

www.teltonika-networks.com

Wiki knowledge base






- <https://wiki.teltonika-networks.com/>



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Documents / Resources

 RUTX14 <small>Cellular IoT Router</small>  	TELTONIKA RUTX14 CAT12 Cellular IoT Router [pdf] User Guide RUTX14 CAT12 Cellular IoT Router, RUTX14, CAT12 Cellular IoT Router, Cellular IoT Router, IoT Router, Router
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References

-  [Amazon service client telephone tel contacter contact Amazon](#)
-  [Teltonika Networks - LTE Routers, Gateways & Modems for IoT](#)
-  [wiki.teltonika-networks.com](#)
-  [wiki.teltonika-networks.com/](#)
-  [wiki.teltonika-networks.com/view/RUTX14_CE/RED](#)