

Teltonika RUTX14

Teltonika RUTX14 CAT12 4G LTE Router User Manual

Model: RUTX14 | Brand: Teltonika

1. INTRODUCTION

The Teltonika RUTX14 is a high-performance industrial cellular router designed for mission-critical applications requiring reliable and secure internet connectivity. Featuring CAT12 LTE for high-speed data transfer, dual-band Wi-Fi (802.11ac), GNSS/GPS capabilities, and Bluetooth, the RUTX14 provides robust networking solutions for various environments. This manual provides essential information for the proper installation, configuration, and operation of your RUTX14 router.

2. SAFETY INFORMATION

- Always disconnect power before performing any maintenance or installation procedures.
- Ensure the device is installed in a well-ventilated area to prevent overheating.
- Use only the power adapter and accessories provided or approved by Teltonika.
- Do not expose the device to water, moisture, or extreme temperatures.
- This device is intended for indoor use unless specifically rated for outdoor environments.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Teltonika RUTX14 Router
- Power Adapter
- Mobile Antennas (x4)
- WiFi Antennas (x2)
- GNSS Antenna (x1)
- Ethernet Cable
- Quick Start Guide

4. DEVICE OVERVIEW

Familiarize yourself with the physical components and ports of the RUTX14 router.

Image 4.1: Labeled diagram of the Teltonika RUTX14 router, highlighting all external ports and connectors for easy identification. This includes mobile antenna connectors, GNSS antenna connector, WiFi antenna connectors, Bluetooth antenna connector, USB port, grounding screw, SIM card slots, reset button, 4-pin power socket, LAN ports, and WAN port.

Front Panel

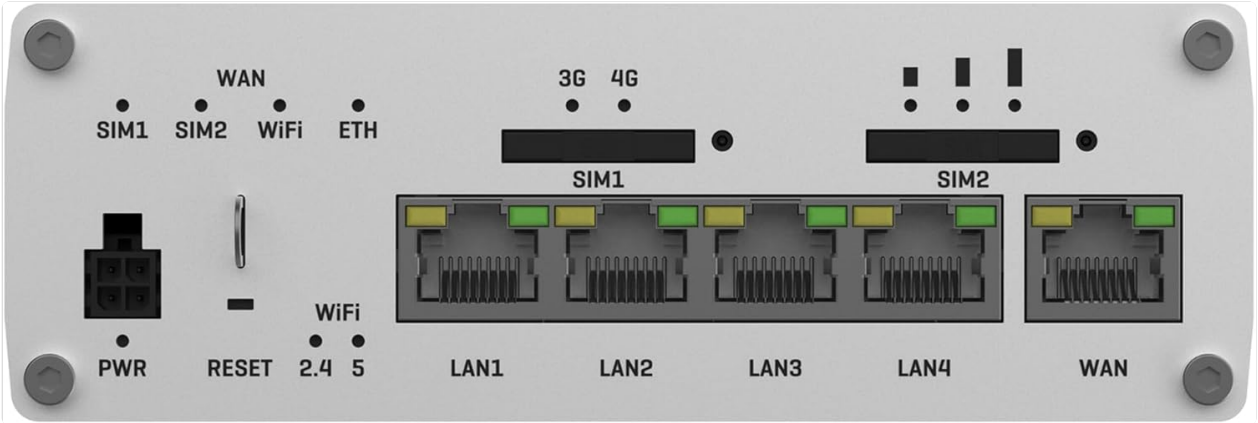


Image 4.2: Close-up view of the RUTX14's front panel. This image displays the PWR LED, Reset button, WiFi 2.4GHz and 5GHz LEDs, SIM1 and SIM2 slots, four LAN ports, one WAN port, and status LEDs for WAN, SIM1, SIM2, WiFi, ETH, 3G/4G, and signal strength.

- **PWR LED:** Indicates power status.
- **RESET Button:** Used to restore factory defaults or reboot the device.
- **WiFi LEDs (2.4/5):** Indicate Wi-Fi activity for respective bands.
- **SIM1/SIM2 Slots:** For inserting cellular SIM cards.
- **LAN Ports (1-4):** Ethernet ports for local network connections.
- **WAN Port:** Ethernet port for Wide Area Network connection (e.g., to an upstream modem).
- **Status LEDs:** Provide visual feedback on WAN, SIM status, Wi-Fi, Ethernet, 3G/4G connectivity, and cellular signal strength.

Side Panel

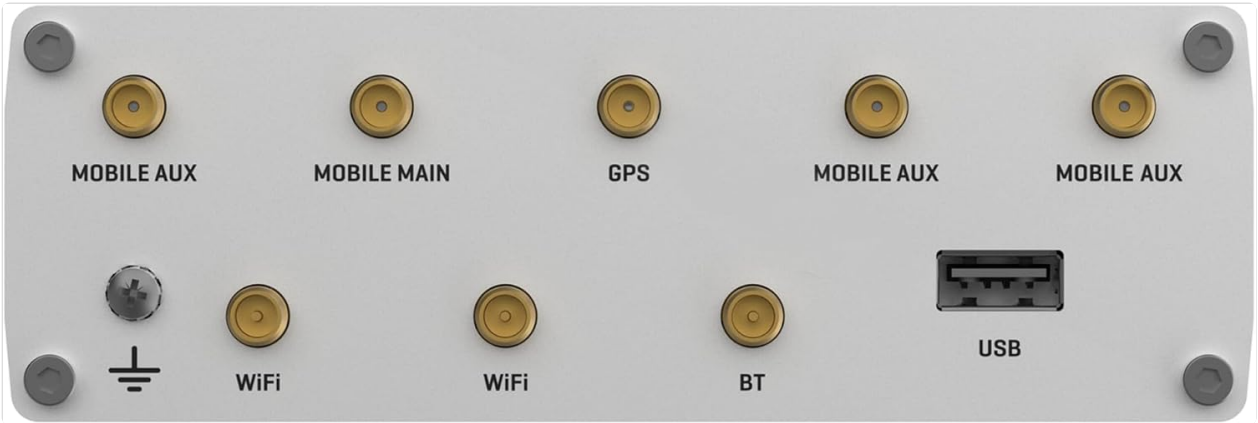


Image 4.3: Detailed view of the RUTX14's side panel. This image shows the various antenna connectors: Mobile AUX (x4), Mobile MAIN (x1), GPS (x1), WiFi (x2), and BT (x1). Also visible are the USB port and the grounding screw.

- **Mobile Antenna Connectors (MAIN/AUX):** For connecting cellular antennas.
- **GPS Antenna Connector:** For connecting a GNSS/GPS antenna.
- **WiFi Antenna Connectors:** For connecting Wi-Fi antennas.
- **BT Antenna Connector:** For connecting a Bluetooth antenna.
- **USB Port:** For connecting external devices or storage.
- **Grounding Screw:** For proper grounding of the device.

5. HARDWARE INSTALLATION

5.1. SIM Card Installation

1. Locate the SIM card slots on the front panel.
2. Using a SIM ejector tool or a paperclip, press the small button next to the SIM slot to open the tray.
3. Insert your activated Nano-SIM card(s) into the tray(s) with the gold contacts facing down.
4. Gently push the tray back into the slot until it clicks into place.

5.2. Antenna Connection

Connect the provided antennas to their respective connectors on the device:

- **Mobile Antennas:** Connect the four cellular antennas to the 'MOBILE MAIN' and 'MOBILE AUX' connectors.
- **WiFi Antennas:** Connect the two Wi-Fi antennas to the 'WiFi' connectors.
- **GNSS Antenna:** Connect the GPS antenna to the 'GPS' connector.
- **Bluetooth Antenna:** Connect the Bluetooth antenna to the 'BT' connector.

Ensure all antennas are securely tightened by hand.

5.3. Power Connection

1. Connect the 4-pin power adapter to the power socket on the front panel.
2. Connect the other end of the power adapter to a suitable power source (9-50 VDC).
3. The PWR LED should illuminate, indicating the device is receiving power.

5.4. Grounding

For enhanced safety and protection against electrical surges, connect a grounding wire to the grounding screw on the side panel and to a proper earth ground.

6. INITIAL SETUP

6.1. Accessing the Web User Interface (WebUI)

1. Connect your computer to one of the RUTX14's LAN ports using an Ethernet cable.
2. Open a web browser and enter the default IP address: **192.168.1.1**
3. You will be prompted for login credentials. The default username is **admin**. The default password is usually found on a sticker on the device or in the Quick Start Guide.
4. Upon successful login, you will access the WebUI for configuration.

6.2. Basic Configuration

Follow the on-screen setup wizard or navigate through the WebUI to configure essential settings:

- **WAN Settings:** Configure your primary internet connection (e.g., cellular APN settings, Ethernet WAN).
- **LAN Settings:** Adjust the local network IP range if necessary.
- **Wi-Fi Settings:** Set up your Wi-Fi network name (SSID) and password for both 2.4GHz and 5GHz bands.
- **Change Default Password:** For security, it is highly recommended to change the default administrator password immediately.

7. OPERATING THE RUTX14

7.1. Understanding LED Indicators

Monitor the front panel LEDs to understand the router's operational status:

- **PWR:** Solid green indicates power on.
- **SIM1/SIM2:** Indicates active SIM card and network registration.
- **3G/4G:** Indicates cellular network type (3G or 4G LTE).
- **Signal Strength:** Multiple LEDs indicate the strength of the cellular signal. More LEDs lit means stronger signal.
- **WiFi (2.4/5):** Indicates Wi-Fi activity on the respective band.
- **ETH/LAN/WAN:** Indicates Ethernet link status and activity.

7.2. LTE Failover

The RUTX14 supports automatic LTE failover, ensuring continuous internet connectivity. If the primary WAN connection (e.g., Ethernet) fails, the router can automatically switch to the cellular LTE connection. This feature is configured within the WebUI under Network > WAN settings.

7.3. GNSS/GPS Functionality

With the connected GNSS antenna, the RUTX14 can provide precise location data. This functionality is accessible and configurable through the WebUI, enabling applications such as fleet tracking or asset management.

7.4. Bluetooth Connectivity

The integrated Bluetooth module allows for short-range wireless communication with compatible devices, enabling various IoT and industrial applications. Configuration options are available in the WebUI.

8. MAINTENANCE

8.1. Firmware Updates

Regularly check for and install firmware updates to ensure optimal performance, security, and access to new features. Firmware updates can be performed via the WebUI under System > Firmware.

8.2. Factory Reset

If you encounter persistent issues or forget your login credentials, you can perform a factory reset. Press and hold the RESET button for approximately 10 seconds while the device is powered on. This will revert all

settings to their default values.

8.3. Cleaning

Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or solvents.

9. TROUBLESHOOTING

- **No Power:** Ensure the power adapter is securely connected and the power outlet is functional. Check the PWR LED.
- **No Internet Connection:**
 - Verify SIM card is correctly inserted and activated.
 - Check cellular signal strength LEDs.
 - Confirm APN settings in the WebUI are correct.
 - If using Ethernet WAN, ensure the cable is connected and the upstream device is working.
- **Cannot Access WebUI:**
 - Ensure your computer is connected to a LAN port.
 - Verify your computer's IP settings are set to obtain an IP address automatically (DHCP).
 - Confirm you are using the correct IP address (192.168.1.1) and credentials.
 - Try clearing your browser's cache or using a different browser.
- **Slow Speeds:**
 - Check cellular signal strength and try repositioning antennas.
 - Ensure no other devices are consuming excessive bandwidth.
 - Verify your cellular data plan limits.






10. SPECIFICATIONS

Feature	Detail
Model Number	RUTX14
Product Dimensions	1.1 x 9.7 x 6.5 inches
Item Weight	1.14 pounds (515 Grams)
Wireless Communication Standard	802.11ac
Data Transfer Rate	600 Megabits Per Second
Number of Ports	5 (4x LAN, 1x WAN)
Voltage Input	9-50 Volts (DC)
Special Feature	WPS (Wi-Fi Protected Setup)
Compatible Devices	Personal Computer
Control Method	Touch (via WebUI)

11. WARRANTY AND SUPPORT

Teltonika products are covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official Teltonika website. For technical support, firmware downloads, and additional resources, please consult the Teltonika support portal or contact your vendor.

Related Documents - RUTX14

	<p>Teltonika RUT955 Quick Start Guide - Installation and Configuration</p> <p>Comprehensive quick start guide for the Teltonika RUT955 router, covering hardware installation, device login, technical specifications, and safety information. Learn how to set up your RUT955 for reliable connectivity.</p>
	<p>Teltonika RUT906 Datasheet: Industrial 4G LTE Cat 4 Router Specifications</p> <p>Comprehensive datasheet for the Teltonika RUT906, an industrial 4G LTE Cat 4 router. Details hardware, features, security, connectivity, power, physical specifications, and regulatory compliance.</p>
	<p>Teltonika RUT976 Datasheet - Industrial Cellular Router</p> <p>Comprehensive datasheet for the Teltonika RUT976, an industrial cellular router supporting 5G, LTE, Wi-Fi, and various networking protocols. Details hardware, features, security, network capabilities, and specifications.</p>
	<p>Teltonika RUTX11 Quick Start Guide: Installation, Setup, and Specifications</p> <p>Comprehensive quick start guide for the Teltonika RUTX11 router. Learn about hardware installation, device setup, login procedures, technical specifications, and safety compliance. Includes detailed descriptions of ports, antennas, and connectivity options.</p>
	<p>Teltonika RUTM30 Datasheet - 5G Industrial Router Specifications</p> <p>Comprehensive datasheet for the Teltonika RUTM30 5G industrial router, detailing hardware, features, network capabilities, security, power, and physical specifications.</p>

TELTONIKA Networks
RUT200



[Teltonika RUT200 Datasheet: Industrial 4G LTE Router](#)

Comprehensive datasheet for the Teltonika RUT200, an industrial 4G LTE Cat 4 router with WiFi. Details hardware, features, system specifications, installation, mounting options, and regulatory information.