

Teltonika RUT955

Teltonika RUT955 Industrial Cellular Router User Manual

Model: RUT955J034S0

1. INTRODUCTION

This manual provides detailed instructions for the installation, configuration, and operation of the Teltonika RUT955 Industrial Cellular Router. It is designed to assist users in maximizing the functionality and performance of their device. Please read this manual thoroughly before using the product.

2. PRODUCT OVERVIEW

The Teltonika RUT955 is a rugged 4G/LTE Dual SIM cellular router equipped with advanced Wi-Fi capabilities, designed for industrial applications requiring reliable and secure internet connectivity. It supports 4G and 3G frequencies, making it compatible with AT&T, Bell, and T-Mobile networks. Key features include dual SIM with auto-failover, backup WAN, multiple Ethernet, Serial (RS232, RS485), and Input/Output interfaces, and an integrated Global Navigation Satellite System (GNSS) for location services and time synchronization.



Figure 2.1: Front view of the Teltonika RUT955 Industrial Cellular Router, showing the main antenna, auxiliary antenna, model number, input voltage range, and default IP address.

3. FEATURES

- **Cellular Connectivity:** Supports 4G (LTE) and 3G frequencies, specifically for AT&T, Bell, and T-Mobile networks.
- **Dual SIM:** Features dual SIM slots with auto-failover, backup WAN, and various switching scenarios for uninterrupted connectivity.
- **Multiple Interfaces:** Equipped with Ethernet ports (LAN1, LAN2, LAN3, WAN), Serial ports (RS232, RS485), and multiple configurable Input/Output (I/O) pins.
- **Advanced Wi-Fi:** Provides wireless connectivity with 802.11ac standard.
- **GNSS:** Integrated Global Navigation Satellite System for precise location services and accurate time synchronization.
- **Rugged Design:** Industrial-grade construction for durability in demanding environments.

4. PACKAGE CONTENTS

Upon unpacking your Teltonika RUT955 router, please verify that all items are present and in good condition:

- Teltonika RUT955 Industrial Cellular Router
- Power Adapter
- 2 x LTE Antennas (Magnetic mount, SMA male)
- 2 x Wi-Fi Antennas (Magnetic mount, RP-SMA male)
- 1 x GNSS Antenna (Magnetic mount, SMA male)
- Ethernet Cable
- Quick Start Guide

5. SETUP

5.1. SIM Card Installation

1. Locate the SIM card slots on the bottom panel of the router.
2. Using a SIM ejector tool or a small pin, press the button next to the SIM slot to open the tray.
3. Insert your activated Mini-SIM cards into the SIM1 and/or SIM2 slots, ensuring proper orientation.
4. Gently push the SIM tray back into the router until it clicks into place.



Figure 5.1: Bottom view of the RUT955, highlighting SIM card slots, USB port, GPS antenna connector, Wi-Fi antenna connectors, and the reset button.

5.2. Antenna Connection

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

- Connect the two LTE antennas to the 'MOBILE' connectors.
- Connect the two Wi-Fi antennas to the 'WIFI' connectors.
- Connect the GNSS antenna to the 'GPS' connector.

5.3. Power Connection

Connect the power adapter to the power input terminal block on the router and then plug the adapter into a power outlet. The router will begin its boot-up sequence.

5.4. Initial Access

To access the router's WebUI (Web User Interface) for configuration:

1. Connect your computer to one of the router's LAN ports using an Ethernet cable.
2. Open a web browser and navigate to the default IP address: **192.168.1.1**.
3. Enter the default login credentials (usually found on a sticker on the device or in the Quick Start Guide).

6. OPERATING INSTRUCTIONS

6.1. Web Interface Overview

The WebUI provides comprehensive control over the router's functions. Familiarize yourself with the dashboard, network settings, services, and system menus.

6.2. Cellular Configuration

To establish cellular connectivity:

- Navigate to **Network > Mobile** in the WebUI.
- Ensure the correct APN (Access Point Name) is configured for your mobile operator (AT&T, Bell, T-Mobile).
- Configure SIM card priorities and failover settings as needed for redundancy.

6.3. Wi-Fi Configuration

To set up your Wi-Fi network:

- Go to **Network > Wireless**.
- Configure your desired SSID (network name) and password for secure access.
- Adjust Wi-Fi security settings (WPA2-PSK recommended).

6.4. GNSS Functionality

The integrated GNSS module provides location data. Access this feature via the WebUI under **Services > GPS** to view coordinates, track history, and configure NMEA data streaming.



Figure 6.1: Rear view of the RUT955, illustrating the various connectivity ports including LAN, WAN, RS485, RS232, Power, and Input/Output terminals.

7. MAINTENANCE

7.1. Firmware Updates

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

7.2. Cleaning

Keep the router clean and free from dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or aerosols.

7.3. Environmental Considerations

Ensure the router is operated within its specified temperature and humidity ranges. Avoid exposing the device to direct sunlight, extreme temperatures, or excessive moisture.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your RUT955 router.

- **No Power:** Ensure the power adapter is securely connected to both the router and a working power outlet. Check the power LED indicator.
- **No Internet Connection (Cellular):** Verify SIM card insertion and activation. Check APN settings in the WebUI. Ensure cellular antennas are properly connected. Check signal strength in the WebUI.
- **Cannot Access WebUI:** Ensure your computer is connected to a LAN port and its IP settings are configured for DHCP or a static IP within the router's subnet (e.g., 192.168.1.x). Try clearing your browser cache or using a different browser.
- **Wi-Fi Not Visible/Connecting:** Check Wi-Fi settings in the WebUI (SSID broadcast, security). Ensure Wi-Fi antennas are connected.
- **Device Reset:** If the router becomes unresponsive, a factory reset may be necessary. Locate the reset button (refer to Figure 5.1) and press and hold it for approximately 10 seconds until the status LEDs flash. This will restore the router to its default factory settings.

9. SPECIFICATIONS

Feature	Detail
Product Dimensions	3.93 x 4.3 x 1.96 inches
Item Weight	10.1 ounces (286.33 grams)
Model Number	RUT955J034S0
Brand	Teltonika
Special Feature	WPS (Wi-Fi Protected Setup)
Frequency Band Class	Quad-Band
Wireless Communication Standard	802.11 ac
Connectivity Technology	Wi-Fi, Cellular (4G/3G)
Color	Black
Manufacturer	Teltonika
First Available Date	September 6, 2020

10. WARRANTY AND SUPPORT

The Teltonika RUT955 Industrial Cellular Router comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official Teltonika Networks website.

For technical support, firmware updates, and additional resources, please visit the Teltonika Networks support portal or contact their customer service directly. Keep your product's model number (RUT955J034S0) and serial number ready when seeking support.

Official Teltonika Networks Website: teltonika-networks.com

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question