Solid Signal RUTM50000000

Teltonika RUTM50 5G Industrial Router User Manual

Model: RUTM50000000 | Brand: Solid Signal

INTRODUCTION

The Teltonika RUTM50 is a robust 5G industrial router designed for demanding environments, offering ultra-fast connectivity and reliable network solutions. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device to ensure optimal performance.

Image: Teltonika RUTM50 5G Industrial Router showcasing its key features: 5G ultra-cellular speeds, Dual SIM auto-failover, SA & NSA 5G architectures, and future-proofing with 4G compatibility.

WHAT'S IN THE BOX

Upon unboxing your Teltonika RUTM50, verify that all components are present:

- 1x RUTM50 Router
- 2x WiFi Antennas
- 1x GNSS Antenna
- 4x Mobile Antennas
- 1x Power Supply

- 1x Ethernet Cable
- 1x SIM Adapter Kit

WHAT'S IN THE BOX

RUTM50   **2) WiFi Antennas**   **(4) Cellular Antennas**

SIM Adapters   **GPS Antenna**   **Power Supply**   **Ethernet Cable**

Image: A visual representation of all items included in the Teltonika RUTM50 product package.

PRODUCT OVERVIEW

Familiarize yourself with the physical layout and connection points of your RUTM50 router.

Top Panel Connectors

Mobile Main Antenna Connectors   GPS Antenna Connector   Mobile Main Antenna Connectors

MOBILE   MOBILE   GPS   MOBILE   MOBILE

WiFi   WiFi   USB

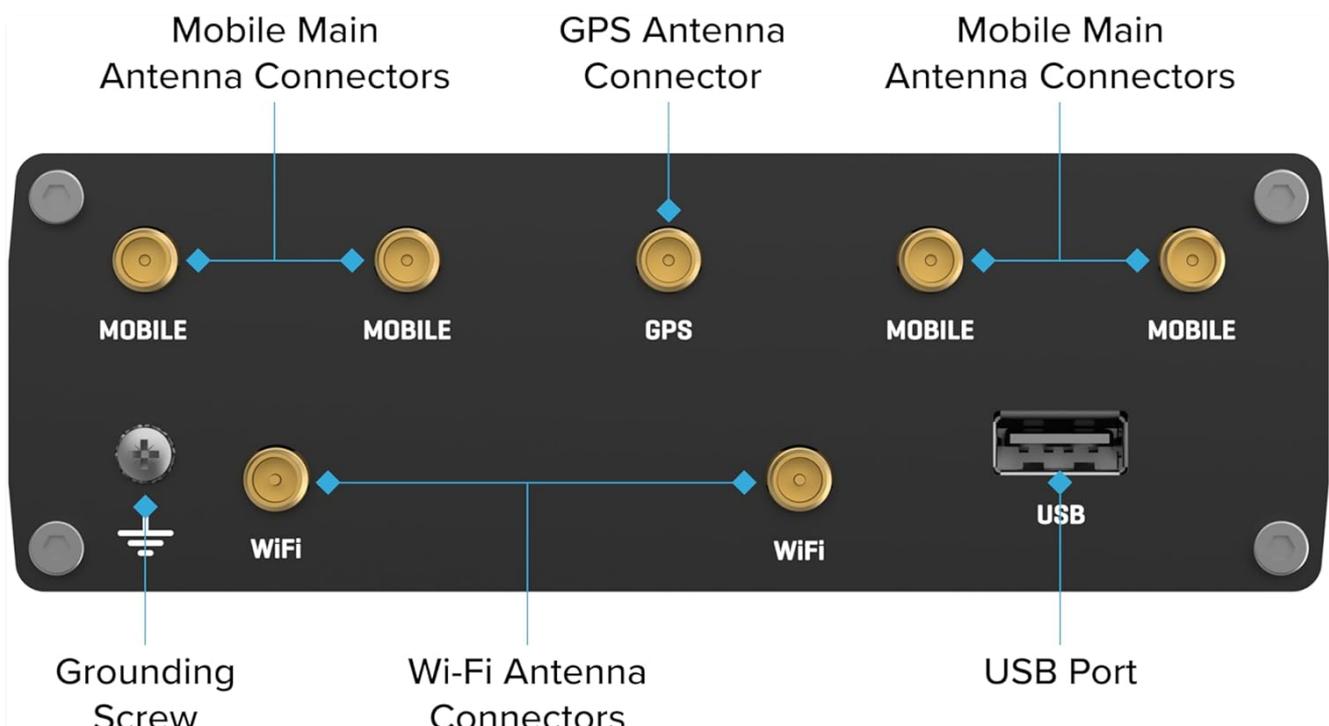Grounding Screw   Wi-Fi Antenna Connectors   USB Port

Image: The top panel of the RUTM50, indicating locations for Mobile Main Antenna Connectors, GPS Antenna Connector, Wi-Fi Antenna Connectors, Grounding Screw, and USB Port.
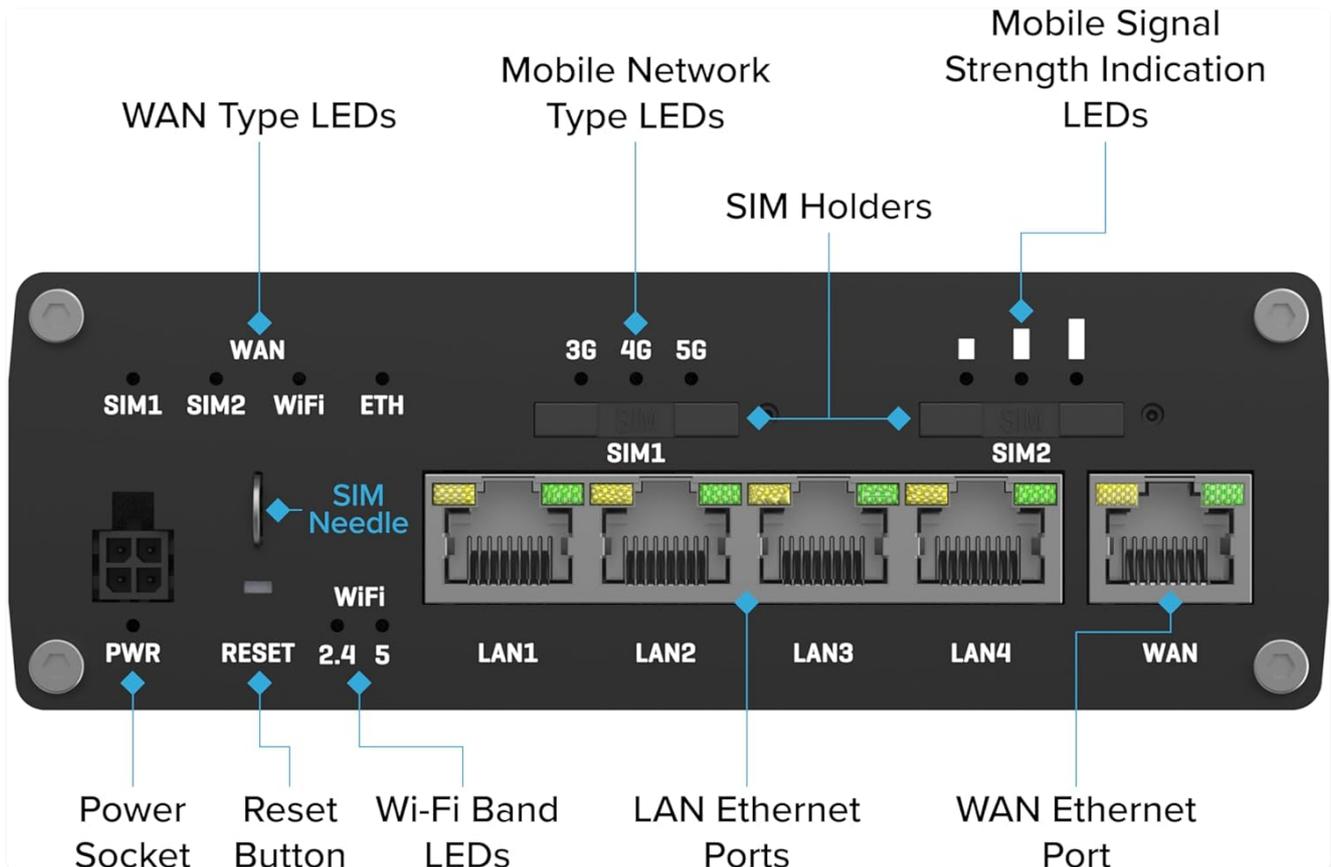
Front Panel Indicators and Ports

Image: The front panel of the RUTM50, detailing WAN Type LEDs, Mobile Network Type LEDs, SIM Holders, Mobile Signal Strength Indication LEDs, Power Socket, Reset Button, Wi-Fi Band LEDs, LAN Ethernet Ports, and WAN Ethernet Port.

SETUP

1. Insert SIM Cards

Locate the SIM holders on the front panel. Use the provided SIM adapter kit if necessary to fit your SIM cards. Insert up to two active SIM cards into the slots. The router supports Dual SIM functionality for failover and load balancing.

2. Connect Antennas

Attach the provided WiFi, GNSS, and Mobile Antennas to their respective connectors on the top panel. Ensure they are securely fastened for optimal signal reception.

3. Power On

Connect the power supply to the Power Socket on the front panel and plug it into an electrical outlet. The router will begin its startup sequence. Observe the LEDs on the front panel for status indications.

4. Initial Access

Connect your computer to one of the router's LAN ports using the Ethernet cable. Open a web browser and navigate to the default IP address: **192.168.1.1**. Log in using the default username (**admin**) and the password found on the label under the router. It is highly recommended to change the default password for security reasons.

OPERATING

Wi-Fi Client Mode Configuration

To configure the router as a Wi-Fi client (STA mode):

1. Access the RutOS WebUI (as described in Initial Access).
2. Navigate to **Network → Wireless**.
3. In the SSIDs section, add or edit a wireless interface.
4. Set **Mode** to **Client (STA)**.
5. Scan for available networks and select your desired Wi-Fi hotspot SSID.
6. Enter the hotspot password.
7. In **Interface Configuration → General Setup**, set **Network** to **wan** or **wifi1**.
8. Save and Apply the changes.

Dual SIM Failover and Load Balancing

The RUTM50 supports two SIM cards, allowing for uninterrupted connectivity. In the RutOS WebUI, configure failover settings to automatically switch to the secondary SIM if the primary connection is lost. Load balancing can also be configured to distribute network traffic across both SIMs for improved performance.

Advanced Security and VPN Support

The router comes with pre-installed OpenVPN and WireGuard support, enabling secure and private network connections. Access the VPN settings in the RutOS WebUI to configure your preferred VPN client or server. Firewall protection is also available for enhanced network security.

RMS Remote Management

Utilize Teltonika's Remote Management System (RMS) platform for seamless monitoring, updating, and configuration of your RUTM50 device from a remote location. This feature is crucial for efficient network control in industrial applications.

Image: The Teltonika RUTM50 is certified by major carriers including Verizon, AT&T, and T-Mobile, ensuring broad compatibility and reliable service.

MAINTENANCE

To ensure the longevity and optimal performance of your Teltonika RUTM50 router, regular maintenance is recommended:

- **Firmware Updates:** Periodically check for and install the latest firmware updates from the Teltonika Networks website. Firmware updates often include security patches, bug fixes, and performance enhancements.
- **Physical Inspection:** Regularly inspect the router for any physical damage, loose antenna connections, or excessive dust accumulation. Clean the device with a soft, dry cloth.

- **Environmental Conditions:** Ensure the router is operating within its specified temperature and humidity ranges. Avoid placing it in direct sunlight or near heat sources.
- **Reboot Cycle:** A periodic reboot (e.g., once a month) can help clear temporary issues and refresh network connections.

TROUBLESHOOTING

If you encounter issues with your RUTM50 router, try the following troubleshooting steps:

- **No Internet Connection:**

  - Check if the SIM cards are properly inserted and activated.
  - Verify that the mobile antennas are securely connected.
  - Confirm that your mobile data plan is active and has sufficient data.
  - Check the Mobile Network Type LEDs on the front panel for signal status.

- **Wi-Fi Connectivity Issues:**

  - Ensure Wi-Fi antennas are connected.
  - Verify that the Wi-Fi is enabled in the RutOS WebUI.
  - Check your device's Wi-Fi settings and ensure you are connecting to the correct SSID with the correct password.

- **Slow Performance:**

  - Relocate the router to an area with better cellular signal strength.
  - Check for network congestion or data usage limits on your mobile plan.
  - Ensure the router's firmware is up to date.

- **Device Unresponsive:**

  - Perform a soft reboot by unplugging the power supply, waiting 10 seconds, and plugging it back in.
  - If the issue persists, use the Reset Button on the front panel to restore factory default settings (note: this will erase all custom configurations).

SPECIFICATIONS

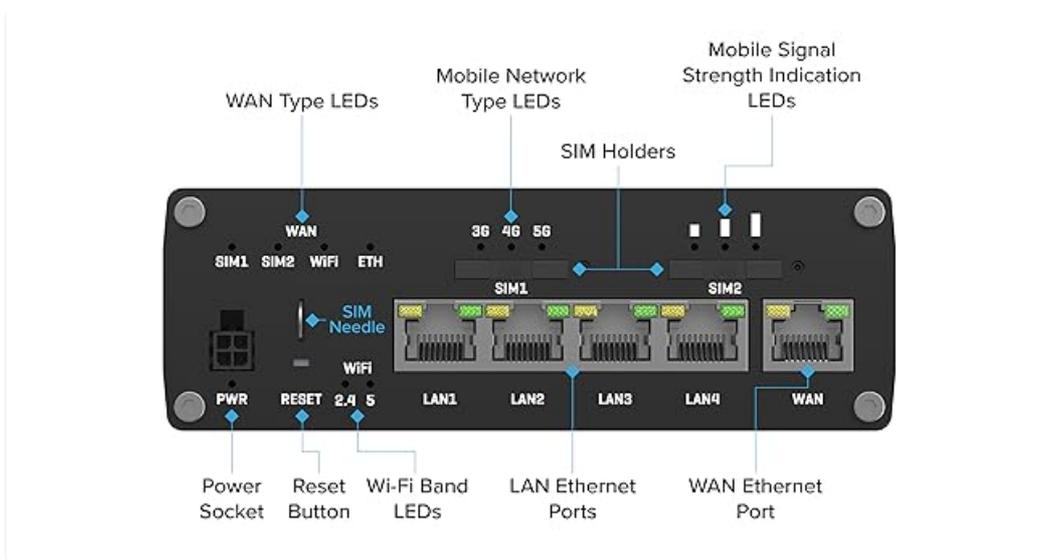| Feature	Detail
Product Dimensions	3.74 x 5.2 x 1.73 inches
Item Weight	1.14 pounds
Model Number	RUTM50000000
Manufacturer	Teltonika
Special Feature	5G, 4G LTE, Wi-Fi, Auto Failover, RMS, VPN, GPS, GNSS
Frequency Band Class	Dual-Band
Wireless Communication Standard	802.11ax (Wi-Fi 6)
Connectivity Technology	5G, Ethernet, LTE, Wi-Fi
Color	Black

Image: The RUTM50 is built for industrial-strength durability, capable of withstanding extreme temperatures (up to 167°F heat, down to -40°F cold) and 10-90% humidity.

WARRANTY

Warranty information for the Teltonika RUTM50 Industrial Router is typically provided by the manufacturer, Teltonika Networks, or the reseller, Solid Signal, at the time of purchase. Please refer to your purchase documentation or contact the seller for specific warranty terms and conditions.

SUPPORT

For technical assistance, product inquiries, or further support regarding your Teltonika RUTM50 Industrial Router, please contact:

- **Manufacturer:** Teltonika Networks (visit their official website for support resources)
- **Reseller:** Solid Signal (refer to your purchase invoice for contact details or visit their website)