# RUTX50

## INDUSTRIAL 5G ROUTER

RUTX50 360° VIEW

RUTX50 is a dual-SIM multi-network router offering 5G mobile communication for high-speed and data-heavy applications. Together with 5x Gigabit Ethernet ports and dual-band Wi-Fi, it provides data connection redundancy with auto-failover. Backward compatibility and multiple interfaces allow for long-term expandability and upgrading options.

### 5G

Ultra-high cellular speeds of up to 3.3 Gbps

### DUAL SIM

With auto failover, backup WAN and other switching scenarios

### SA & NSA

Supports both architectures to leverage the 5G infrastructure

### FUTURE-PROOFING

Backward compatible with 4G (LTE CAT 20) and 3G network technologies

# RMS | REMOTE MANAGEMENT SYSTEM

# COMPATIBLE WITH RUTX50

MANAGEMENT | ALERTS | CONFIGURATION | ACCESS | FOTA

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# KEY FEATURES

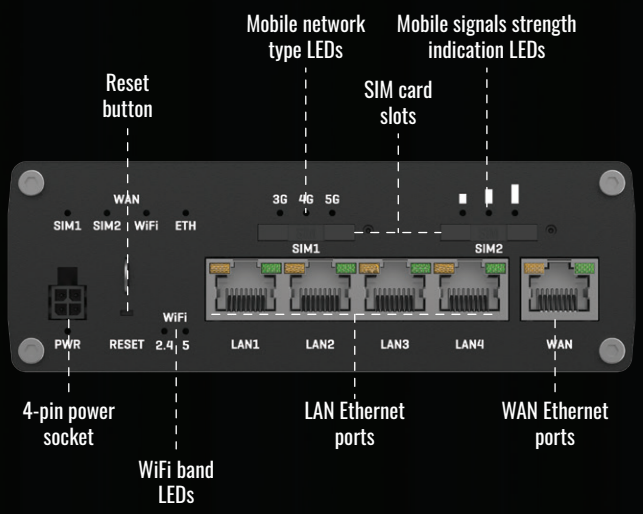
## HARDWARE

| | |
|---|---|
| Mobile | 5G Sub-6Ghz SA/NSA 2.1/3.3Gbps DL (4x4 MIMO), 900/600 Mbps UL (2x2);<br>4G (LTE) – LTE Cat 20 2.0Gbps DL, 200Mbps UL; 3G – 42 Mbps DL, 5.76Mbps UL |
| CPU | Quad-core ARM Cortex A7, 717 MHz |
| Flash storage | 256 MB |
| RAM | 256 MB |
| Powering options | 4-pin power socket, 9-50 VDC |
| SIM | 2 x SIM slot (Mini SIM – 2FF), 1.8 V/3 V |
| Antenna connectors | 4 x SMA for Mobile, 2 x RP-SMA for WiFi, 1 x SMA for GNSS |
| Ethernet | 5 x 10/100/1000 Ethernet ports: 1 x WAN (configurable as LAN), 4 x LAN |
| WiFi | 802.11b/g/n/ac Wave 2 (WiFi 5) with data transmission rates of up to 867 Mbps (Dual Band, MU-MIMO), 802.11r fast transition, Access Point (AP), Station (STA) |
| Wireless mesh/roaming | Wireless mesh (802.11s), fast roaming (802.11r) |
| GNSS | GPS, GLONASS, BeiDou, Galileo, QZSS |
| Inputs/Outputs | On 4-pin socket: 1 x Digital input, 1 x Digital open collector output |
| Other | 1 x USB host, 1 x Grounding screw |
| Status LEDs | 3 x connection status LEDs, 3 x connection strength LEDs, 10 x Ethernet port status LEDs, 4 x WAN status LEDs, 1x Power LED, 2 x 2.4G and 5G WiFi LEDs |
| Operating temperature | -40 °C to 75 °C |
| Housing | Aluminum housing, DIN rail (can be mounted on two sides), flat surface placement |
| Dimensions (W x H x D) | 132 x 44.2 x 95.1 mm |
| Weight | 533 g |

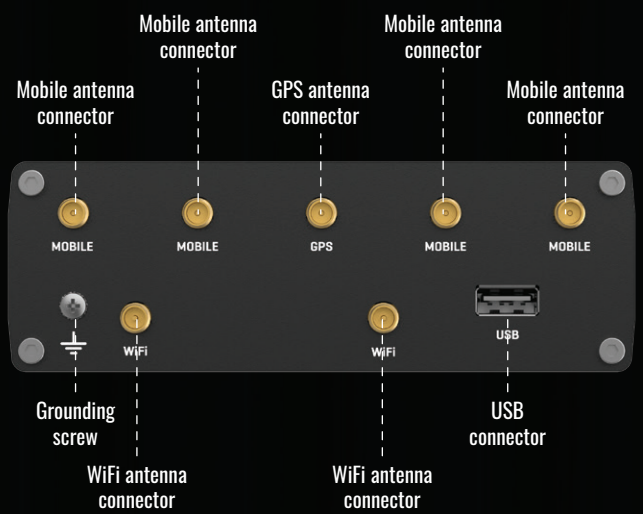
## SOFTWARE

| | |
|---|---|
| Operating system | RutOS (OpenWrt based Linux OS) |
| Mobile features | Multiple PDN, Auto APN, Band lock, SIM switch, Operator black/white list, Data/SMS limits |
| Network features | Routing, Failover, Firewall, DHCP, DDNS, Load Balancing, VoIP passthrough, Connection monitoring |
| Monitoring and Management | WEB UI, CLI, SSH, CALL, SMS, TR-069, SNMP, JSON-RPC, MQTT, MODBUS, RMS |
| VPN and tunneling | OpenVPN, IPsec, GRE, PPTP, L2TP, Stunnel, DMVPN, SSTP, WireGuard, ZeroTier |
| Cloud solutions | RMS, FOTA, Azure IoT Hub, Cloud of Things, Cumulocity, ThingWorx |
| Hotspot | External/Internal Radius, SMS OTP, MAC authentication, Walled Garden |
| GNSS | NMEA forwarding, AVL, Geofencing |

## FRONT VIEW




## BACK VIEW

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