

# RUTC50

## WI-FI 6 5G ROUTER

The RUTC50 is a 5G router with Wi-Fi 6 technology, ensuring ultra-high cellular speeds of up to 3.4 Gbps. This device also features dual SIM with auto-failover, five Gigabit Ethernet ports, and GNSS for precise location tracking. The RUTC50 is also backward compatible with 4G (Cat 20) and 3G, ensuring robust and reliable performance.



### 5G

Ultra-high cellular speeds of up to 3.4 Gbps

### Wi-Fi 6

Improved wireless speed, latency, and multi-user performance

### GNSS

Precise location services and time synchronisation applications

### DUAL SIM

With auto-failover, backup WAN, and other switching scenarios



# RMS

## REMOTE MANAGEMENT SYSTEM

# COMPATIBLE WITH RUTC50

MANAGEMENT

ALERTS

CONFIGURATION

ACCESS

FOTA

# KEY FEATURES

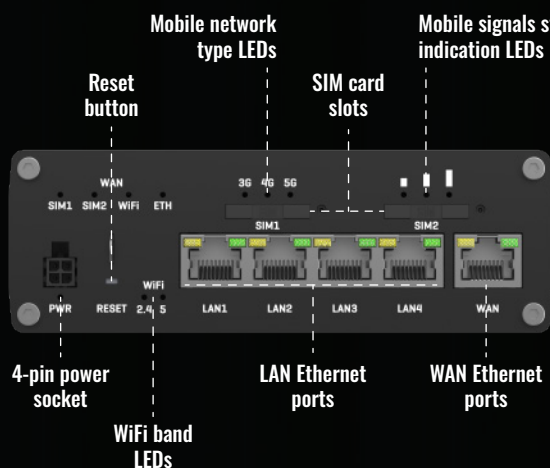
## HARDWARE

|                        |   |
|------------------------|---|
| Mobile                 | 5G Sub-6GHz SA/NSA 2.4/3.4Gbps DL (4x4 MIMO), 900/550 Mbps UL (2x2); 4G (LTE) - LTE Cat 20 2.0Gbps DL, 210Mbps UL; 3G - 42 Mbps DL, 5.76Mbps UL       |
| CPU                    | Mediatek, 1.3 GHz, Dual-core ARM Cortex A53   |
| RAM                    | 512MB DDR3  |
| Storage                | 16MB serial NOR flash, 512MB serial NAND flash  |
| Powering options       | 4-pin industrial DC power socket, 9 - 50 VDC  |
| SIM                    | 2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holders   |
| Antenna connectors     | 4 x SMA for Mobile, 3 x RP-SMA for Wi-Fi, 1 x SMA for GNSS  |
| Ethernet               | 5 x RJ45 ports, 10/100/1000 Mbps  |
| WiFi                   | 802.11b/g/n/ac/ax (Wi-Fi 6) with data transmission rates up to 2402Mbps on 5GHz, 576Mbps on 2.4GHz (Dual Band, MU-MIMO)                               |
| GNSS                   | GPS, GLONASS, BeiDou, Galileo and QZSS  |
| Inputs/Outputs         | 1 x Digital Input, 0 - 6 V detected as logic low, 8 - 50 V detected as logic high, 1 x Digital Output, Open collector output, max output 50 V, 300 mA |
| Other                  | 1 x USB A port for external devices, 1 x Grounding screw  |
| Status LEDs            | 4 x WAN status LEDs, 3 x Mobile connection type, 3 x Mobile connection strength, 8 x LAN status, 1 x Power, 2 x 2.4G and 5G Wi-Fi, 2 x WAN status     |
| Operating temperature  | -40 °C to 75 °C   |
| Housing                | Anodized aluminum housing and panels  |
| Dimensions (W x H x D) | 103.4 x 42.6 x 130.4 mm   |
| Weight                 | 452 g   |

## SOFTWARE

|                           |  |
|---------------------------|--|
| Operating system          | RutOS (OpenWrt based Linux OS)   |
| Mobile features           | SIM switch, Status, SMS, USSD, Black/White list, Multiple PDN, Band management, APN, Bridge, Passthrough, Framed routing   |
| Network protocols         | TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, SFTP, FTP, SMTP, SSL/TLS, ARP, VRRP, PPP, PPPoE, UPNP, SSH, DHCP, Telnet, SMPP, SNMP, MQTT, Wake On Lan (WOL)   |
| VPN and tunneling         | OpenVPN, IPsec, GRE, PPTP, L2TP, Stunnel, DMVPN, SSTP, ZeroTier, WireGuard, Tinc, Tailscale  |
| Monitoring and Management | WEB UI, FOTA, SSH, SMS, Call, TR-069, MQTT, SNMP, JSON-RPC, RMS  |
| Cloud solutions           | RMS, FOTA, Azure IoT Hub, Cloud of Things, Cumulocity, ThingWorx   |
| Hotspot                   | Captive portal (Hotspot), internal/external Radius server, SMS authorization, internal/external landing page, walled garden, user scripts, URL parameters, user groups, individual user or group limitations, user management, 9 default customizable themes |
| GNSS                      | GPS, GLONASS, BeiDou, Galileo and QZSS   |

### FRONT VIEW



### BACK VIEW

