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

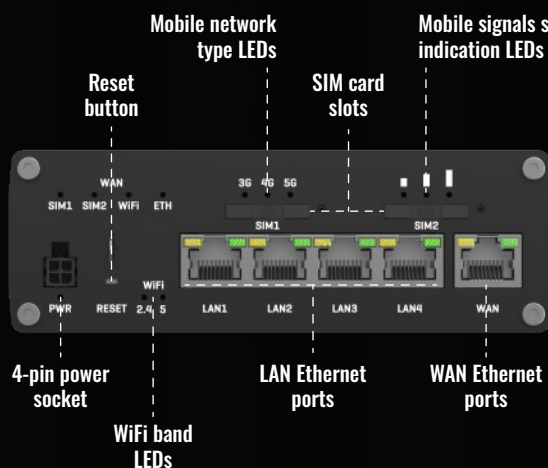|	
Mobile	5G Sub-6Ghz SA/NSA 2.4/3.4Gbps DL (4x4 MIMO), 900/550 Mbps UL (2x2); 4G (LTE) – LTE Cat 20 2.0Gbps DL, 210Mbps UL; 3G – 42 Mbps DL, 5.76Mbps UL
CPU	Mediatek, 1.3 GHz, Dual-core ARM Cortex A53
RAM	512MB DDR3
Storage	16MB serial NOR flash, 512MB serial NAND flash
Powering options	4-pin industrial 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, SMNP, 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

- Reset button
- Mobile network type LEDs
- SIM card slots
- Mobile signals strength indication LEDs
- 4-pin power socket
- WiFi band LEDs
- LAN Ethernet ports
- WAN Ethernet ports

BACK VIEW

- Mobile antenna connector
- Mobile antenna connector
- Mobile antenna connector
- GPS antenna connector
- Mobile antenna connector
- Grounding screw
- WiFi antenna connector
- WiFi antenna connector
- WiFi antenna connector
- WiFi antenna connector
- WAN Ethernet ports