TELTONIKA

RUTC50

YOUR 5G WIRELESS MULTITOOL

RUTC50 360° VIEW

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

RUTC50

Made in Lithuania
TELTONIKA NETWORKS UAB
K. Barsausko st. 66
LT-51436 Kaunas, Lithuania

(9-50 VDC) + - (GND)
INPUT OUTPUT

Default IP: 192.168.1.1

5G
Ultra-high cellular speeds of up to 3.4 Gbps

Wi-Fi 6
Dual-band multi-user MIMO wireless capabilities

PROCESSING POWER
Increased processing capacity for multi-user and edge computing applications

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

MOBILE MOBILE GPS MOBILE MOBILE
WiFi WiFi WiFi USB

WAN
SIM1 SIM2 WiFi ETH
3G 4G 5G
SIM1 SIM2
WiFi
2.4 5
PWR RESET LAN1 LAN2 LAN3 LAN4 WAN

RMS
REMOTE MANAGEMENT SYSTEM

COMPATIBLE WITH RUTC50

MANAGEMENT | ALERTS | CONFIGURATION | ACCESS | FOTA
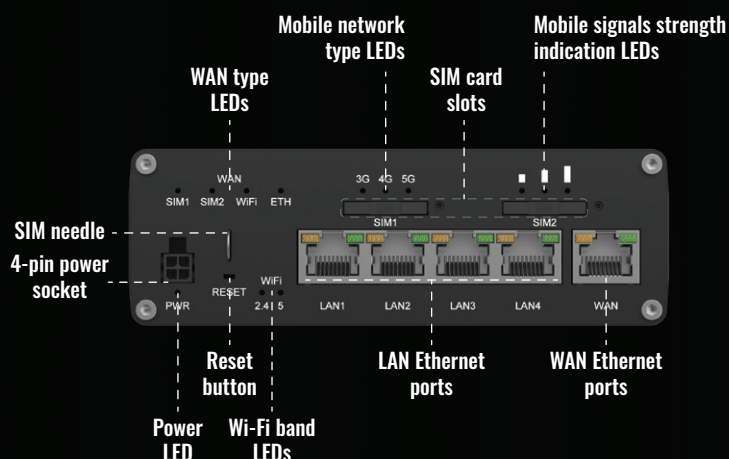
![TELTONIKA logo]

KEY FEATURES

HARDWARE

Mobile	5G Sub-6 Ghz SA/NSA 2.4/3.4 Gbps DL (4x4 MIMO), 900/550 Mbps UL (2x2); 4G (LTE) – LTE Cat 19 1.6 Gbps DL, Cat 18 200 Mbps UL; 3G – 42 Mbps DL, 5.76 Mbps UL
CPU	Mediatek, Dual-core, 1.3 GHz, 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, eSIM (Optional)
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: 1 x WAN (configurable as LAN), 4 x LAN
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
Grounding	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)	130.4 x 42.6 x 103.4 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, SIM idle protection service, SIM PIN code management, APN, Bridge, Passthrough, Framed routing
Wireless features	Wi-Fi security, SSID/ESSID, Wi-Fi users, Wireless Connectivity Features, Wireless MAC filter, Wireless QR code generator, TravelMate
Network features	Routing, Network protocols, VoIP passthrough support, Connection monitoring, Firewall, Firewall status page, Ports management, Network topology, DHCP, QoS / Smart Queue Management (SQM), DNS over HTTPS, DDNS, Network backup, Load balancing, Hotspot, Hotspot 2.0, SSHFS, VRF support , Traffic Management, Port Mirroring
Security	Authentication, Firewall, Attack prevention, VLAN, Mobile quota control, WEB filter, Access control, SSL certificate generation, 802.1x
VPN and tunneling	OpenVPN, OpenVPN Encryption, IPsec, GRE, PPTP, L2TP, Stunnel, DMVPN, SSTP, ZeroTier, WireGuard, Tinc, Tailscale
Monitoring and Management	WEB UI, SSH, SMS, Call, Email, TR-069, MQTT, SNMP, JSON-RPC, MODBUS, RMS
Cloud solutions	RMS, Cloud of Things, ThingWorx, Cumulocity, Azure IoT Hub
Services	OPC UA, DNP3, Modbus, Data to Server, Modbus MQTT GATEWAY, DLMS/COSEM
Location Tracking	GNSS, Coordinates, NMEA, NTRIP, Server software, Geofencing

FRONT VIEW

WAN type LEDs · Mobile network type LEDs · SIM card slots · Mobile signals strength indication LEDs · SIM needle · 4-pin power socket · Power LED · Reset button · Wi-Fi band LEDs · LAN Ethernet ports · WAN Ethernet ports

BACK VIEW

Mobile antenna connector · Mobile antenna connector · GPS antenna connector · Mobile antenna connector · Mobile antenna connector · Grounding screw · Wi-Fi antenna connector · Wi-Fi antenna connector · Wi-Fi antenna connector · USB port