

RUTC42

DUAL MODEM EDGE ROUTER



RUTC42 360° VIEW

Engineered for mission-critical uptime, the RUTC42 eliminates single points of failure with two LTE Cat 4 modules for seamless failover and load balancing. This router combines a powerful CPU, expanded memory, and native Docker support to enable localized application processing. Custom RutOS configurations and integration with RMS elevate your architecture, providing real-time network map visibility, advanced data collection, and secure remote configurations to maximize operational efficiency.



ULTIMATE RESILIENCE

Ensure uptime over LTE Cat 4 with dual modem, failover, load balancing

EDGE-READY

Enhance processing with powerful CPU, expanded memory, and Docker support

COST EFFICIENCY

Cut operating costs with fewer maintenance interventions

WI-FI 6

Deliver superior performance with dual-band multi-user MIMO



RMS COMPATIBLE WITH RUTC42

MANAGEMENT

ALERTS

CONFIGURATION

ACCESS

FOTA

REMOTE
MANAGEMENT
SYSTEM

KEY FEATURES

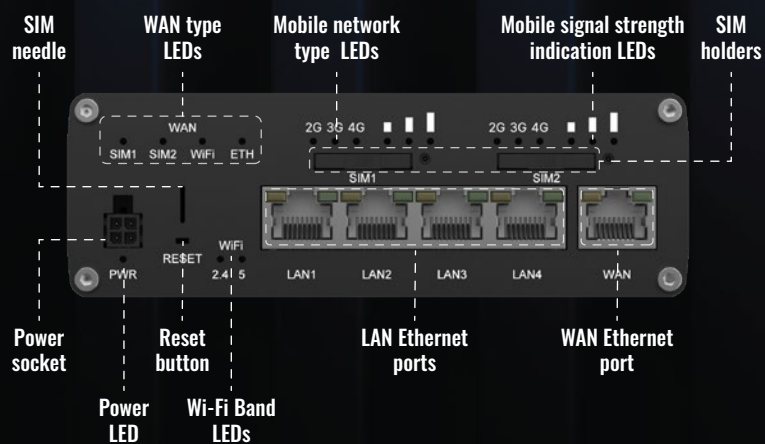
HARDWARE

Mobile	2 x 4G CAT4 LTE up to 150 DL/50 UL Mbps; 3G up to 21 DL/ 5.76 UL Mbps; 2G up to 236.8 DL/236.8 UL kbps
CPU	Mediatek, Dual Core, 1.3 GHz
RAM	1GB, DDR4
Storage	16MB serial NOR flash,8GB eMMC
Powering options	4-pin industrial DC power socket, 9 - 50 VDC
eSIM	Consumer type 2x eSIM, profile download and removal operations, up to 7 eSIM profiles; does not include data plans
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
Ethernet	5 x RJ45 ports, 10/100/1000 Mbps: 1 x WAN (configurable as LAN), 4 x LAN
Wi-Fi	802.11b/g/n/ac/ax (Wi-Fi 6) with data transmission rates up to 2402 Mbps on 5 GHz, 576 Mbps on 2.4 GHz (Dual Band, MU-MIMO)
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 type, 6 x Mobile connection type, 6 x Mobile connection strength, 10 x ETH status, 1 x Power, 2 x 2.4G and 5G Wi-Fi
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	eSIM, SIM switch, Status, SMS, USSD, Block/Allow list, Band management, SIM PIN code management, APN, Bridge, Passthrough
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, FOTA, SSH, SMS, Call, Email, TR-069, MQTT, SNMP, JSON-RPC, RMS
Cloud solutions	RMS, ThingWorx, Cumulocity - Cloud of Things, Azure IoT Hub, AWS IoT Core
Services	BacNET, OPC UA, Modbus, Data to Server, Modbus MQTT GATEWAY, DNP3, DLMS/COSEM, API, DOCKER

FRONT VIEW



BACK VIEW

