

RUTC54

5G EDGE ROUTER



RUTC54 360° VIEW

Ensure operational continuity worldwide with the RUTC54 5G edge router. Powered by a Telit global 5G modem with dual SIM & eSIM, it enables automatic failover, and remote carrier management without on-site intervention. Edge-ready hardware with Docker support, custom RutOS configurations, and Wi-Fi 6 delivers high-throughput wireless access. RMS remote management, deployment automation, and zero-touch deployment make the RUTC54 ideal for centrally managed industrial and distributed networks.



GLOBAL 5G

Reliable global operations with Telit 5G modem

EDGE COMPUTING

Run Docker directly on the router to reduce dependency on cloud connectivity

WI-FI 6

Deliver superior performance with dual-band multi-user MIMO

DUAL SIM & ESIM

With auto failover, backup WAN and other switching scenarios



RMS COMPATIBLE WITH RUTC54

MANAGEMENT | ALERTS | CONFIGURATION | ACCESS | FOTA

KEY FEATURES

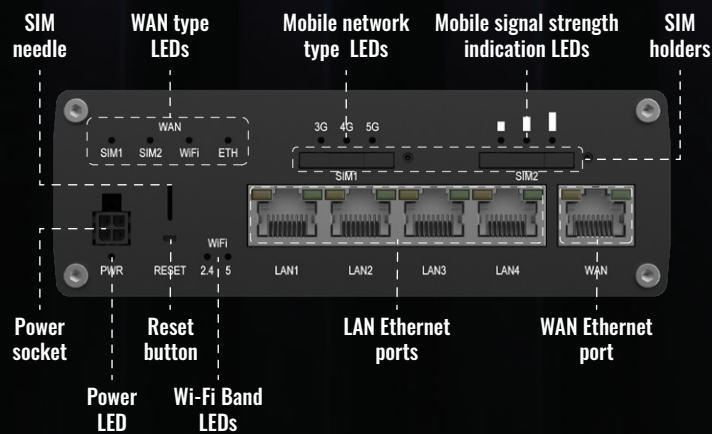
HARDWARE

Mobile	5G Sub-6Ghz SA/NSA 2.5/3.4Gbps DL (4x4 MIMO), 900/550 Mbps UL (2x2); 4G (LTE) – LTE Cat 19 1.6 Gbps DL, LTE Cat 18 211 Mbps UL; 3G – 42 Mbps DL, 5.7 Mbps UL
CPU	Mediatek, 1.3 GHz, Dual-core ARM Cortex A53
RAM	1 GB, DDR4
Storage	16 MB serial NOR flash, 8 GB eMMC Flash
TPM	Identification and authentication module, TPM 2.0 standard
Powering options	4-pin industrial DC power socket, 9 - 50 VDC
eSIM	Consumer type 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, 1 x SMA for GNSS
Ethernet	5 x RJ45 ports, 10/100/1000 Mbps: X x WAN (configurable as LAN), X x LAN
Wi-Fi	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 - 30 V detected as logic high, 1 x Digital Output, Open collector output, max output 30 V, 300 mA
Serial	RS232, RS485
Grounding	1 x Grounding screw
Status LEDs	4 x WAN type, 3 x Mobile connection type, 3 x Mobile connection strength, 10 x Ethernet port status, 1 x Power, 2 x 2.4G and 5G Wi-Fi
Operating temperature	-40 °C to 75 °C
Housing	Anodized aluminium housing and panels
Dimensions (W x H x D)	132 x 44.2 x 104 mm
Weight	500 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Mobile features	eSIM, SIM switch, Status, SMS, USSD, Block/Allow 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, Port 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, IGMP Proxy, Port Mirroring
Security	Authentication, Firewall, Attack prevention, VLAN, Mobile quota control, WEB filter, Access control, TPM, Certificate Manager, 802.1x
VPN and tunneling	VPN, OpenVPN, IPsec, GRE, PPTP, L2TP, Stunnel, DMVPN, SSTP, ZeroTier, WireGuard, Tinc, Tailscale, Netbird, EoIP, OpenConnect
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, Docker
Location Tracking	GNSS, Coordinates, NMEA, NTRIP, Server software, Geofencing

FRONT VIEW



BACK VIEW

