

RUTM20

COMPACT 5G ROUTER



RUTM20 360° VIEW

Deploy 5G where size and cost matter. The RUTM20 is an ultra-compact global 5G router engineered for IoT and IIoT solutions. Leverage worldwide connectivity with a global Telit 5G modem. Streamline deployments with PoE, enabling single-cable power delivery. With integrated eSIM, you can manage carrier switching at scale, eliminating costly site visits. RUTM20 is perfect for space-constrained solutions like POS, surveillance, and transport.



GLOBAL 5G

Maximise coverage with global Telit modem

COMPACT FOOTPRINT

Fit 5G into space-limited IoT solutions

DUAL SIM & ESIM

Ensure uptime with automatic failover and remote carrier switching

ACTIVE POE

Simplify deployment with PoE



RMS COMPATIBLE WITH RUTM20

MANAGEMENT

ALERTS

CONFIGURATION

ACCESS

FOTA

REMOTE
MANAGEMENT
SYSTEM

KEY FEATURES

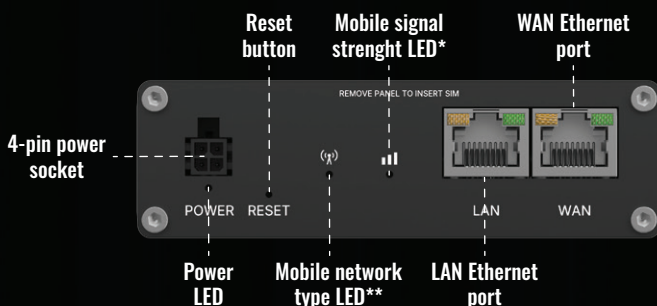
HARDWARE

Mobile	5G Sub-6Ghz SA/NSA 2.5/3.4Gbps DL (4x4 MIMO), 900/550 Mbps UL (2x2); 4G (LTE) – LTE Cat 19 1.6Gbps DL, LTE Cat 18 211Mbps UL; 3G – 42 Mbps DL, 5.7Mbps UL
CPU	MediaTek, Dual-Core, 880 Mhz, MIPS1004Kc
RAM	256MB, DDR3
Storage	16MB serial NOR flash, 256MB serial NAND flash
TPM	Identification and authentication module, TPM 2.0 standard
Powering options	4-pin industrial DC power socket, 9 - 50 VDC
PoE IN	RJ45 (WAN port), PoE In: 802.3af/at Alternative A and B, 18-50 VDC
PoE OUT	RJ45 (LAN port), PoE Out: 802.3af/at Alternative A, 30 W Max
SIM	2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, internal SIM holder
eSIM™	Consumer type eSIM™*, profile download and removal operations, up to 7 eSIM™ profiles
Antenna connectors	4 x SMA for Mobile, 2 x RP-SMA for Wi-Fi
Ethernet	2 x RJ45 ports, 10/100/1000 Mbps: 1 x WAN, 1 x LAN
Wi-Fi	802.11b/g/n/ac Wave 2 (Wi-Fi 5) with data transmission rates up to 867 Mbps (Dual Band, MU-MIMO), 802.11r fast transition, Access Point (AP), Station (STA)
Status LEDs	1 x Mobile connection type(RGB), 1 x Mobile connection strength(RGB), 4 x LAN status, 1 x Power
Operating temperature	-40 °C to 75 °C
Housing	Anodized aluminum housing and panels
Dimensions (W x H x D)	100 x 30 x 93.7 mm
Weight	319 g

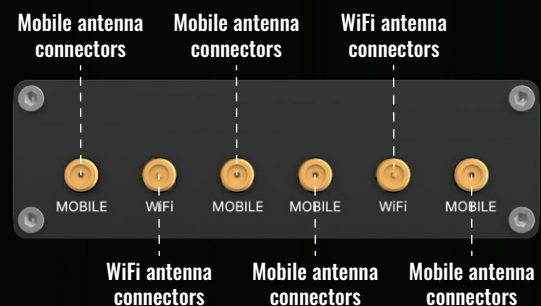
SOFTWARE

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	VoIP passthrough support, Connection monitoring, Firewall, Firewall status page, Ports management, Network topology, Hotspot, DHCP, QoS / Smart Queue Management (SQM), DNS over HTTPS, DDNS, Network backup, Load balancing, SSHFS, VRF support , Traffic Management
Security	Authentication, Firewall, Attack prevention, VLAN, Mobile quota control, WEB filter, Access control, TPM, 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, MODBUS, RMS
Cloud solutions	RMS, ThingWorx, Cumulocity - Cloud of Things, Azure IoT Hub
Services	OPC UA, Modbus, Data to Server, Modbus MQTT GATEWAY, DNP3, DLMS/COSEM

FRONT VIEW



BACK VIEW



Mobile signal strength LED* RED color when signal RSSI is between -110 and -82 dBm, YELLOW color when signal RSSI is between -82 and -52 dBm, GREEN color when signal RSSI is more than -51 dBm
Mobile network type LED** YELLOW color when device is connected to a 3G network, GREEN color when device is connected to a 4G network, BLUE color when device is connected to a 5G network.