RUTM31

COST-EFFICIENT 5G ROUTER

RUTM31 360° VIEW

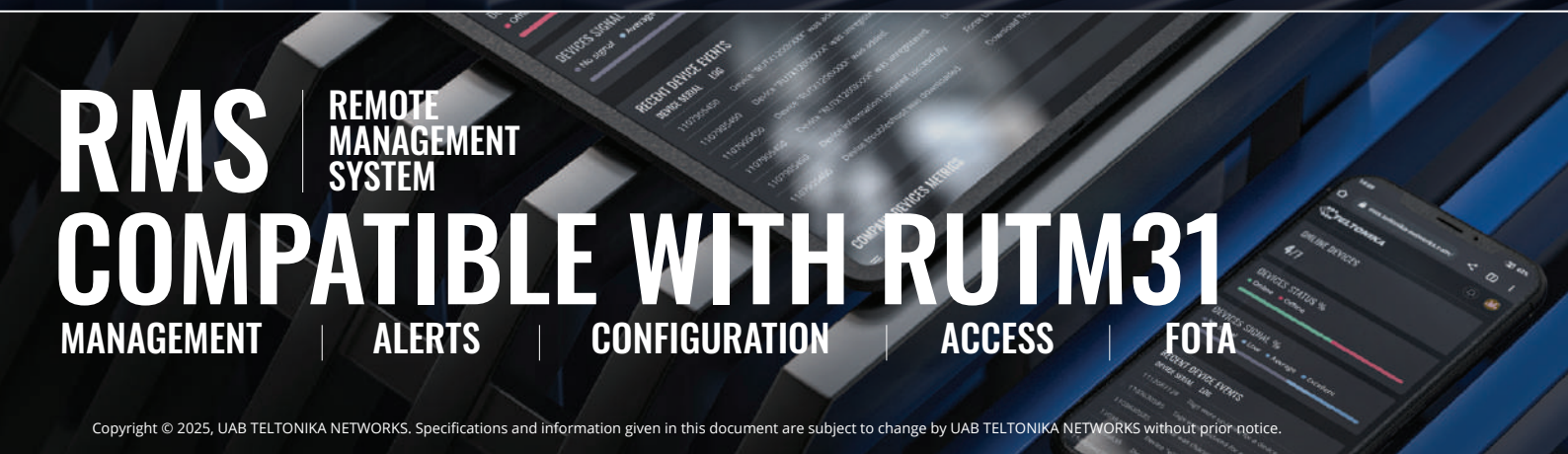
The RUTM31 is a cost-efficient compact dual-SIM, multi-network industrial 5G router delivering connectivity for data-heavy applications. With two Gigabit Ethernet ports, dual-band Wi-Fi, and auto-failover, it ensures seamless, reliable performance. Backward compatibility with 4G Cat 12 makes the RUTM31 5G router a smart, future-proof choice for businesses seeking high-speed connectivity at a lower cost.

COST-EFFICIENT 5G
Top-tier 5G speeds at an unbeatable price point

CONNECTIVITY
5G, 4G Cat12

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

SA & NSA
Supports both architectures to leverage the 5G infrastructure



RMS
REMOTE MANAGEMENT SYSTEM

COMPATIBLE WITH RUTM31

MANAGEMENT | ALERTS | CONFIGURATION | ACCESS | FOTA

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KEY FEATURES

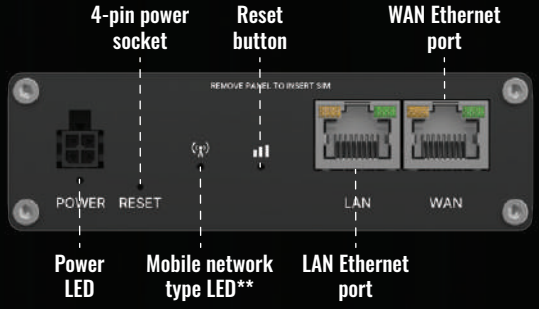
HARDWARE

Mobile	5G Sub-6Ghz SA/NSA: 2/2.6 Gbps DL (4x4 MIMO), 1000/650 Mbps UL (2x2 MIMO); 4G LTE Cat 12 600 Mbps DL (2x2 MIMO), Cat 13 150 Mbps UL; 3G 42.2 Mbps DL, 11 Mbps UL;
CPU	MediaTek, Dual-Core, 880 Mhz, MIPS1004Kc
RAM	256MB, DDR3
Storage	16 MB serial NOR flash, 256 MB serial NAND flash
TPM	Identification and authentication module, TPM 2.0 standard
Powering options	4-pin industrial DC power socket, 9 - 50 VDC
SIM	2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, internal SIM holders, eSIM (Optional - different hardware required; contact your sales manager)
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)
Inputs/Outputs	1 x Configurable Digital Input, 0 - 6 V detected as logic low, 8 - 30 V detected as logic high, 1 x Configurable Digital Output, Open collector output, max output 30 V, 300 mA
Configurable I/O	2 x Configurable digital Inputs/Outputs on 4-pin power connector. Digital Input, 0 - 6 V detected as logic low, 8 - 50 V detected as logic high. Digital Output, Open collector output, max 30 V, 300 mA
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

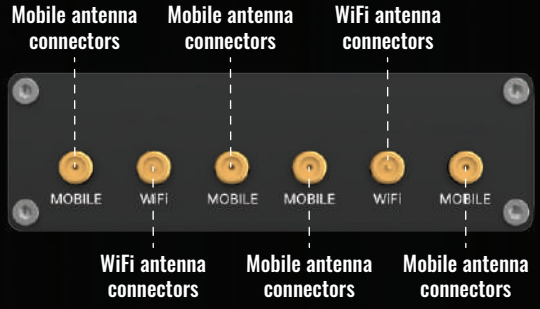
SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Mobile features	SIM switch, Status, SMS, USSD, Block/Allow list, 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, DHCP, QoS / Smart Queue Management (SQM), DNS over HTTPS, DDNS, Network backup, Load balancing, Hotspot, Hotspot 2.0, 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, RMS
Cloud solutions	RMS, ThingWorx, Cumulocity - Cloud of Things, Azure IoT Hub
Services	Data to Server, Modbus MQTT GATEWAY, DNP3, DLMS/COSEM

FRONT VIEW



BACK VIEW



Mobile signal strenght 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 notwork, **BLUE** color when device is connected to a 5G network.

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