

RUTM56



RUTM56 360° VIEW

DUAL MODEM ROUTER

The RUTM56 is a future-proof dual modem router designed to bridge the gap between legacy and next-generation networks. Featuring integrated 5G and 4G Cat 4 modems, it ensures continuous operation by providing seamless fallback to 3G and 2G networks. The RUTM56 ensures high-speed, uninterrupted connectivity with dual SIM and eSIM support. Load balancing, Wi-Fi 5, and five Gigabit Ethernet ports optimise performance, while RutOS with industrial protocols and versatile VPNs simplify complex IoT setups. This single out-of-the-box product enables rapid connectivity deployment, eliminating lengthy configurations and risks associated with similar multi-device solutions.



DUAL MODEM

1 x 5G & 1 x 4G Cat 4 modems

SIM & eSIM™

With auto failover, backup WAN and other switching scenarios

LEGACY NETWORK SUPPORT

Backward compatible with 3G & 2G networks

PLUG-N-PLAY

Ready to be used out of the box



RMS

REMOTE
MANAGEMENT
SYSTEM

COMPATIBLE WITH RUTM56

MANAGEMENT

ALERTS

CONFIGURATION

ACCESS

FOTA

KEY FEATURES

HARDWARE

Mobile	Modem 1: 5G Sub-6 GHz SA/NSA 2.4/3.4Gbps DL (4x4 MIMO) 900/550Mbps UL (2x2 MIMO); 4G (LTE): DL Cat 19 1.6Gbps (4x4 MIMO)/UL Cat 18 200Mbps; 3G DL 42Mbps UL 5.76Mbps Modem 2: 4G (LTE) Cat 4 DL 150Mbps UL 50Mbps; 3G DL 21Mbps UL 5.76Mbps; 2G DL 236.8kbps UL 236.8kbps
eSIM	Consumer type eSIM, profile download and removal operations, up to 7 eSIM profiles; does not include data plans
CPU	MediaTek, Dual-Core, 880 MHz, MIPS1004Kc
RAM	256 MB, 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, external SIM holders
Antenna connectors	6 x SMA for Mobile, 2 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
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)
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 type, 6 x Mobile connection type, 6 x Mobile connection strength, 10 x LAN 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)	132 x 44.2 x 95 mm
Weight	515 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Mobile features	eSIM, 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, Hotspot, DHCP, QoS / Smart Queue Management (SQM), DNS over HTTPS, DDNS, Network backup, Load balancing, SSHFS, VRF support, Traffic Management, Port Mirroring
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, API
Location Tracking	GNSS, Coordinates, NMEA, NTRIP, Server software, Geofencing

FRONT VIEW

BACK VIEW

