RUTM50

CELLULAR 5G ROUTER

RUTM50 RUTM50 360° VIEW

RUTM50 is an FCC-certified Teltonika Networks cellular 5G router for North America, with ultra-high cellular speeds of up to 3.4 Gbps. This dual SIM router has auto-failover and backup WAN and supports both SA and NSA 5G architectures. It is also backward compatible with 4G (LTE Cat 19/18), making it perfect for future-proofing your industrial networking solutions.

TELTONIKA | Networks

Made in Lithuania
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RUTM50

(9-50 VDC) + (GND)
INPUT / OUTPUT

Default IP: 192.168.1.1

5G
Ultra-high cellular speeds of up to 3.4 Gbps

DUAL SIM
Auto-failover, backup WAN, and other switching scenarios

SA & NSA
Supports both SA & NSA 5G architectures

FUTURE-PROOFING
Backward compatible with 4G (LTE Cat 19/18)

RMS REMOTE MANAGEMENT SYSTEM
COMPATIBLE WITH RUTM50

MANAGEMENT | ALERTS | CONFIGURATION | ACCESS | FOTA

KEY FEATURES

HARDWARE

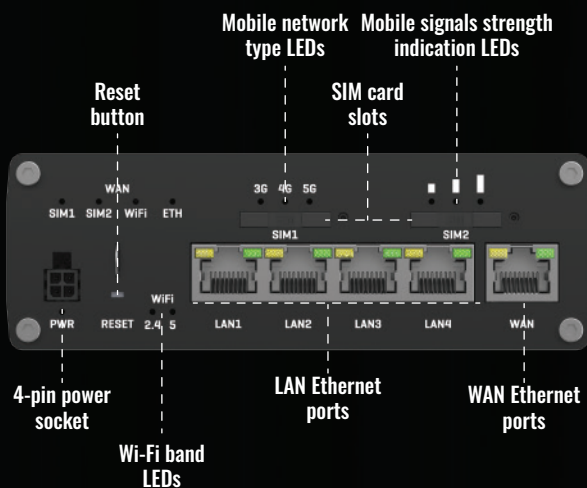|	
Mobile	5G Sub-6 GHz SA, NSA 2.4, 3.4Gbps DL (4x4 MIMO) 900, 550Mbps UL (2x2 MIMO); 4G (LTE): DL Cat 19 1.6Gbps (4x4 MIMO), UL Cat 18 200Mbps
CPU	MediaTek, Dual-Core, 880 MHz, MIPS1004Kc
RAM	256MB DDR3
Storage	16MB serial NOR flash, 256MB serial NAND flash
Powering options	4-pin industrial DC power socket, 9 – 50 VDC
SIM	2 x SIM slot (Mini SIM – 2FF), 1.8 V, 3 V
Antenna connectors	4 x SMA for Mobile, 2 x RP-SMA for Wi-Fi, 1 x SMA for GNSS
Ethernet	5x 10/100/1000 RJ45 ports: 1 x WAN port (configurable as LAN), 4 x LAN port
Wi-Fi	802.11b, g, n, ac Wave 2 (Wi-Fi 5) with data transmission rates up to 867 Mbps (Dual Band, MU-MIMO)
GNSS	GPS, GLONASS, BeiDou, Galileo and QZSS
Inputs/Outputs	1 x Digital Input, 1 x Digital Output on 4-pin power connector
Other	1 x USB A port for external devices, 1 x Grounding screw
Status LEDs	3 x connection status LEDs, 3 x connection strength LEDs, 10 x Ethernet port status LEDs, 4 x WAN status LEDs, 1x Power LED, 2 x 2.4G and 5G Wi-Fi LEDs
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing, DIN rail (can be mounted on two sides), flat surface placement
Dimensions (W x H x D)	132 x 44.2 x 95.1 mm
Weight	519 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Mobile features	Auto APN, SIM switch, Call, SMS, USSD, Black/White list, Multiple PDN, Band management, Mobile module, Status, Bridge, Passthrough
Network features	Routing, Firewall, QoS / Smart Queue Management (SQM), Load balancing, Connection monitoring, VoIP passthrough support, DHCP, DDNS, Network backup, SSHFS
Monitoring and Management	WEB UI, FOTA, TR-069, SNMP, JSON-RPC, MQTT, SMS, Call, SSH, MODBUS, RMS
VPN and tunneling	OpenVPN, IPsec, GRE, PPTP, L2TP, Stunnel, DMVPN, SSTP, ZeroTier, WireGuard, Tinc
Cloud solutions	RMS, Cloud of Things, ThingWorx, Cumulocity, Azure IoT Hub
Wireless Connectivity Features	Wireless mesh (802.11s), fast roaming (802.11r), Relayd
Hotspot	Captive portal, External/Internal Radius, SMS OTP, MAC authentication, Walled Garden
GNSS	NMEA, NTRIP, Server software (TAVL, RMS), Geofencing

FRONT VIEW

Reset button

Mobile network type LEDs

Mobile signals strength indication LEDs

SIM card slots

WAN
SIM1 SIM2 | WiFi ETH

3G 4G 5G

SIM1   SIM2

WiFi
PWR   RESET   2.4 5   LAN1   LAN2   LAN3   LAN4   WAN

4-pin power socket

Wi-Fi band LEDs

LAN Ethernet ports

WAN Ethernet ports

BACK VIEW

Mobile antenna connector

Mobile antenna connector

GNSS antenna connector

Mobile antenna connector

Mobile antenna connector

MOBILE   MOBILE   GPS   MOBILE   MOBILE

WiFi   WiFi   USB

Ground-ing screw

Wi-Fi antenna connector

Wi-Fi antenna connector

USB port