TELTONIKA

RUTM55

5G INDUSTRIAL ROUTER

RUTM55 360° VIEW

Bring 5G to your industrial networks with RUTM55. This advanced router delivers ultra-high 5G speeds (up to 3.4 Gbps) coupled with versatile 4 x Gigabit Ethernet and Wi-Fi 5 connectivity options. Ensure maximum uptime with dual SIM and eSIM auto-failover. Connect legacy RS232/RS485 devices directly, protecting investments and modernizing infrastructure. Tailored for industrial demands via 3-PIN power input, RUTM55 provides robust, future-proof reliability.

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

DUAL SIM & eSIM
Redundancy & reliability via auto-failover

SERIAL INTERFACES
Connect legacy devices via RS232/RS485

3-PIN POWER INPUT
Tailored for industrial use

RMS
REMOTE MANAGEMENT SYSTEM

COMPATIBLE WITH RUTM55

MANAGEMENT | ALERTS | CONFIGURATION | ACCESS | FOTA
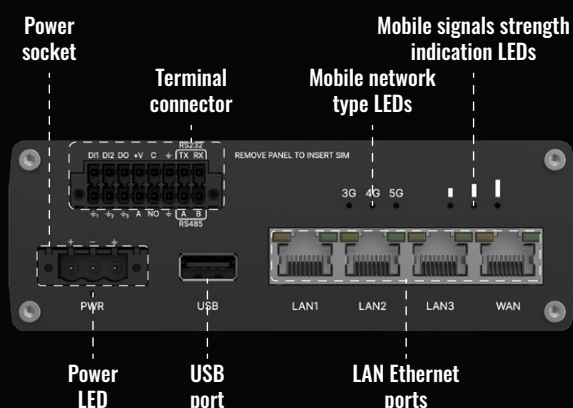
KEY FEATURES

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	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	3-pos plugable terminal block, 9-50 VDC
SIM	2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, internal SIM holders
eSIM™	Consumer type eSIM, profile download and removal operations, up to 7 eSIM profiles; does not include data plans
Antenna connectors	4 x SMA for Mobile, 2 x RP-SMA for Wi-Fi, 1 x SMA for GNSS
Ethernet	4 x RJ45 ports, 10/100/1000 Mbps: 1 x WAN (configurable as LAN), 3 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)
GNSS	GPS, GLONASS, BeiDou, Galileo and QZSS
Inputs/Outputs	1 x digital dry input (0 - 3 V), 1 x digital galvanically isolated input (0 - 50 V), 1 x analog input (0 - 24 V), 1 x Isolated open collector output (requires external voltage) (50 V, 500 mA), 1 x SPST relay output (24 V, 10 A)
Serial	RS232, RS485
Status LEDs	3 x Mobile connection type, 3 x Mobile connection strength, 6 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)	132 x 44.2 x 95 mm
Weight	430 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Mobile features	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	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
Network features	Authentication, Firewall, Attack prevention, VLAN, Mobile quota control, WEB filter, Access control, SSL certificate generation, 802.1x
Security	Authentication, Firewall, Attack prevention, VLAN, Mobile quota control, WEB filter, Access control, TPM, SSL certificate generation, 802.1x
VPN and tunneling	WEB UI, FOTA, SSH, SMS, Call, Email, TR-069, MQTT, SNMP, JSON-RPC, RMS
Monitoring and management	RMS, ThingWorx, Cumulocity - Cloud of Things, Azure IoT Hub
Cloud solutions	OPC UA, Modbus, Data to Server, Modbus MQTT GATEWAY, DNP3, DLMS, API
Services	GNSS, Coordinates, NMEA, NTRIP, Server software, Geofencing

FRONT VIEW

Power socket
Terminal connector
Mobile network type LEDs
Mobile signals strength indication LEDs

Power LED
USB port
LAN Ethernet ports

BACK VIEW

Mobile antenna connector
Mobile antenna connector
GPS antenna connector
Mobile antenna connector
Mobile antenna connector

Wi-Fi antenna connector
Reset button
Wi-Fi antenna connector