TELTONIKA

RUTC41

4G EDGE ROUTER

RUTC41 360° VIEW

Bring powerful on-site computing to your industrial deployments with the RUTC41 edge router. This high-performance yet compact and versatile device combines 4G Cat 4 connectivity with advanced processing power and dual-band Wi-Fi 6. Built-in Docker support allows you to run containerized applications directly on the router. Equipped with 1 GB RAM, a dual-core 1.3 GHz CPU, and industrial-grade RutOS features, the RUTC41 delivers secure networking, cloud integration, and real-time data logger in one rugged device.

TELTONIKA

Made in Lithuania
TELTONIKA NETWORKS UAB
K. Barsausko st. 66
LT-51436 Kaunas, Lithuania

RUTC41

eSIM

(9-50 VDC) + ⊞ - (GND)
INPUT ⊞ OUTPUT

Default IP: 192.168.1.1

4G CAT 4
Enable smarter edge computing over 4G

ENHANCED PROCESSING
Dual-core CPU, 1 GB RAM, and 8 GB flash memory

DOCKER SUPPOR
Run Docker containers directly on the router to deploy custom solutions

WI-FI 6
Dual-band multi-user MIMO for superior wireless performance

MOBILE

MOBILE

WiFi   WiFi   WiFi

USB

WAN
SIM1 SIM2 WiFi ETH   2G 3G 4G
                         SIM1   SIM2
PWR RESET WiFi LAN1 LAN2 LAN3 LAN4   WAN
           2.4 5

RMS
REMOTE MANAGEMENT SYSTEM

COMPATIBLE WITH RUTC41

MANAGEMENT | ALERTS | CONFIGURATION | ACCESS | FOTA
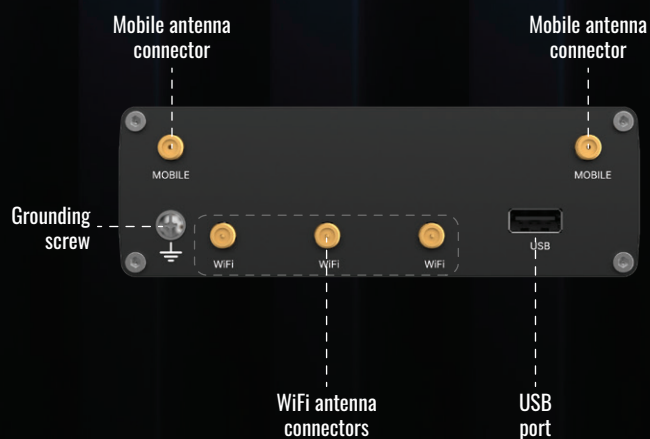
KEY FEATURES

HARDWARE

Mobile	4G LTE Cat 4 up to 75 DL/50 UL Mbps; 3G up to 42 DL/5.76 UL Mbps; 2G up to 236.8 DL/236.8 UL Kbps
CPU	Mediatek, 1.3 GHz, Dual-core ARM Cortex A53
RAM	1 GB, DDR4
Storage	16 MB serial NOR flash, 8 GB eMMC Flash
Powering options	4-pin industrial DC power socket, 9 - 30 VDC
eSIM	Consumer type eSIM, profile download and removal operations, up to 7 eSIM profiles; does not include data plans
SIM	2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holders
Antenna connectors	2 x SMA for Mobile, 3 x RP-SMA for Wi-Fi
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/ax (Wi-Fi 6) with data transmission rates up to 2402Mbps on 5GHz, 576Mbps on 2.4GHz (Dual Band, MU-MIMO)
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, 3 x Mobile connection type, 3 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)	130.4 x 42.6 x 104 mm
Weight	480 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Mobile features	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	Routing, Network protocols, VoIP passthrough support, Connection monitoring, Firewall, Firewall status page, Port 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, IGMP Proxy, Port Mirroring
Security	Authentication, Firewall, Attack prevention, VLAN, Mobile quota control, WEB filter, Access control, TPM, Certificate Manager, 802.1x
VPN and tunneling	OpenVPN, OpenVPN Encryption, IPsec, GRE, PPTP, L2TP, Stunnel, DMVPN, SSTP, ZeroTier, WireGuard, Tinc, Tailscale, Netbird, EoIP, OpenConnect
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, AWS IoT Core
Services	BacNET, OPC UA, Modbus, Data to Server, Modbus MQTT GATEWAY, DNP3, DLMS/COSEM, API

TELTONIKA

FRONT VIEW

Mobile antenna connector

Mobile antenna connector

MOBILE

MOBILE

Grounding screw

WiFi   WiFi   WiFi

USB

WiFi antenna connectors

USB port

BACK VIEW

WAN type LEDs

Mobile network type LEDs

Mobile signal strenght indication LEDs

SIM needle Power socket

WAN
SIM1 SIM2 WiFi ETH

2G 3G 4G

SIM1

SIM2

SIM holders

PWR

RESET

WiFi
2.4 5

LAN1 LAN2 LAN3 LAN4

WAN

Power LED

WiFi band LEDs

LAN Ethernet ports

WAN Ethernet port

Reset button