RUT976

REDCAP 5G ROUTER

RUT976 360° VIEW

The RUT976 is an industrial Redcap 5G router supporting SA architecture, carving a balanced niche between 4G and full-capacity 5G. This 5G router can wirelessly support up to 100 end devices and features the low latency of 5G—at affordable pricing.
In case of limited 5G coverage, the RUT976 is backward compatible with 4G LTE Cat 4. It also boasts dual SIM slots with auto-failover, Wi-Fi, GNSS, a wide range of interfaces, including four 10/100 RJ45 slots, RS232, RS485, and multiple I/Os, and numerous other brilliant features for expert professional deployment.

REDCAP 5G

Low latency, high capacity, affordable pricing

FUTURE-PROOFING

Backward compatible with 4G LTE Cat 4

DUAL-SIM

With auto-failover, backup WAN and other switching scenarios

MULTIPLE INTERFACES

Ethernet, RS232, RS485, & multiple I/Os

RMS | REMOTE MANAGEMENT SYSTEM

COMPATIBLE WITH RUT976

MANAGEMENT | ALERTS | CONFIGURATION | ACCESS | FOTA

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KEY FEATURES

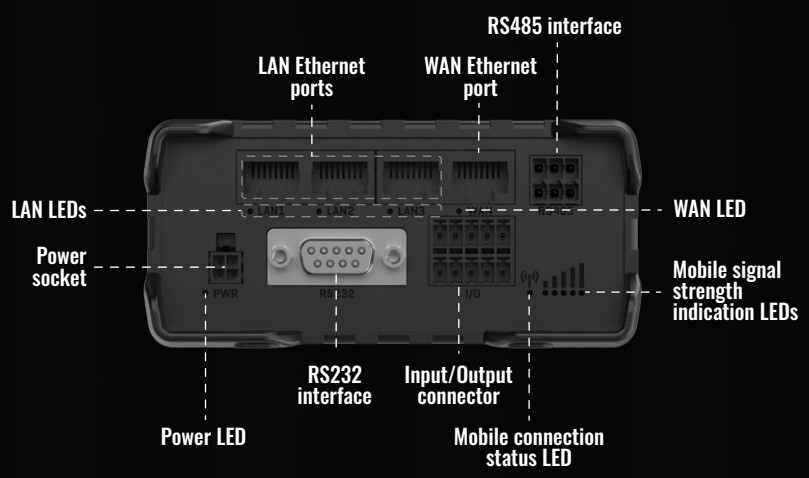
HARDWARE

Mobile	5G Sub-6Ghz SA 223 Mbps DL , 123 Mbps UL; 4G LTE Cat 4 – LTE 195 Mbps DL, 105 Mbps UL
CPU	Mediatek, 580 MHz, MIPS 24KEc
RAM	128 MB, DDR2
Flash storage	32 MB, NOR Flash
Powering options	4-pin industrial DC power socket, 9 - 30 VDC
SIM	2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holders, 2x MFF2 size eSIM (can be installed upon request)
SD Card	Micro SD (internal)
Antenna connectors	2 x SMA for Mobile, 3 x RP-SMA for Wi-Fi, 1 x SMA for GNSS
Ethernet	4 x RJ45 ports, 10/100 Mbps: 1 x WAN (configurable as LAN), 3 x LAN
Wi-Fi	IEEE 802.11b/g/n (Wi-Fi 4), Access Point (AP), Station (STA)
GNSS	GPS, GLONASS, BeiDou, Galileo and QZSS
Inputs/Outputs	1 x digital dry input (0 - 3 V), 1 x digital galvanically isolated input (0 - 30 V), 1 x analog input (0 - 24 V), 1 x Digital non-isolated input (on 4-pin power connector, 0 - 5 V detected as logic low, 8 - 30 V detected as logic high), 1 x digital open collector output (30 V, 250 mA), 1 x SPST relay output (40 V, 4 A), 1 x Digital open collector output (30 V, 300 mA, on 4-pin power connector)
Serial	RS232, RS485
Grounding	1 x Grounding screw
Status LEDs	1 x Bi-color connection status, 5 x Mobile connection strength, 4 x ETH status, 1 x Power
Operating temperature	-40 °C to 75 °C
Housing	Aluminum housing, plastic panels
Dimensions (W x H x D)	110 x 50 x 100 mm
Weight	295 g

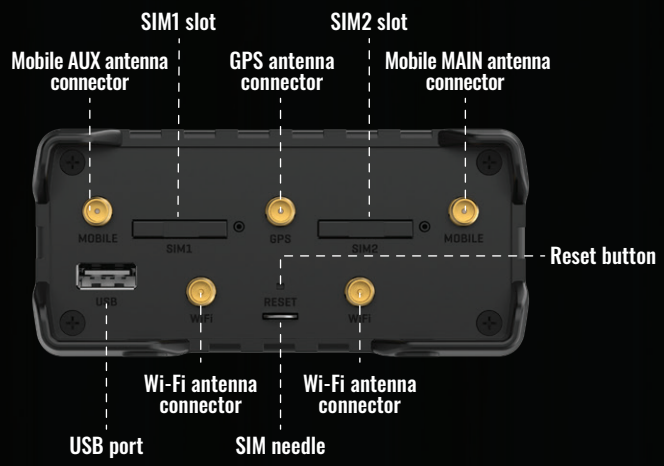
SOFTWARE

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
Network features	VoIP passthrough support, Network Management, 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
Security	Authentication, Firewall, Attack prevention, VLAN, Mobile quota control, WEB filter, Access control, SSL certificate generation
VPN and tunneling	OpenVPN, OpenVPN Encryption, IPsec, GRE, PPTP, L2TP, Stunnel, DMVPN, SSTP, ZeroTier, WireGuard, Tinc
Monitoring and Management	WEB UI, FOTA, SSH, SMS, Call, Email, TR-069, MQTT, SNMP, JSON-RPC, RMS
Cloud solutions	RMS, Cloud of Things, ThingWorx, Cumulocity - Cloud of Things, Azure IoT Hub
Services	BacNET, OPC UA, Modbus, Data to Server, Modbus MQTT GATEWAY, DNP3, DLMS
Location Tracking	GNSS, Coordinates, NMEA, NTRIP, Server software, Geofencing

FRONT VIEW



BACK VIEW



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