



## Teltonika RUT976 Redcap 5G | 5G Router | Wi-Fi 4, Dual SIM, 4x FE LAN, RS232, RS485



link to the product:

<https://www.batna24.com/gb/p/lte-5g/teltonika-rut976-redcap-5g-5g-router-wi-fi-4-dual-sim-4x-fe-lan-rs232-rs485>

Price: **1,491.83 zł** gross / 1,212.87 zł net



Manufacturer: TELTONIKA

Referention number: DNXXGHJHOKRMMJQ

### Product features

|                             |                         |
|-----------------------------|-------------------------|
| Height                      | 50 mm                   |
| LED indicators              | Yes                     |
| USB charging port           | Yes                     |
| GLONASS                     | Yes                     |
| Firewall                    | Yes                     |
| Width                       | 100 mm                  |
| Depth                       | 100 mm                  |
| 4G standard                 | LTE                     |
| Security algorithms         | WPA2-Enterprise         |
| RAM type                    | DDR2                    |
| Device type                 | Cellular network router |
| Humidity measurement range  | 10 - 90%                |
| USB 2.0 ports quantity      | 1                       |
| Ethernet LAN interface type | Gigabit Ethernet        |
| RAM capacity                | 0.128 GB                |
| Ethernet LAN (RJ-45) ports  | 4                       |
| Full duplex                 | Yes                     |
| Auto MDI/MDI-X              | Yes                     |
| Operating temperature (T-T) | -40 - 75 °C             |

|                                      |                                                                                                                                                                             |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supported network protocols          | TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, SFTP, FTP, SMTP, SSL v3, TLS, ARP, VRRP, PPP, PPPoE, UPNP, SSH, DHCP, Telnet, SMPP, SNMP, MQTT, Wake on Lan (WOL), VXLAN |
| Mounting                             | DIN-rail/Wall mounting                                                                                                                                                      |
| Reset button                         | Yes                                                                                                                                                                         |
| Card reader integrated               | Yes                                                                                                                                                                         |
| Maximum memory card size             | 2000 GB                                                                                                                                                                     |
| Compatible memory cards              | MicroSD (TransFlash)                                                                                                                                                        |
| 5G standard                          | Sub6 SA                                                                                                                                                                     |
| Operating system installed           | RutOS                                                                                                                                                                       |
| Internal memory                      | 0.032 GB                                                                                                                                                                    |
| Wi-Fi standards                      | 802.11b                                                                                                                                                                     |
| Wi-Fi                                | Yes                                                                                                                                                                         |
| Ethernet LAN                         | Yes                                                                                                                                                                         |
| Data network                         | 4G                                                                                                                                                                          |
| Number of SIM cards                  | 2                                                                                                                                                                           |
| Processor manufacturer               | MediaTek                                                                                                                                                                    |
| Power source type                    | DC                                                                                                                                                                          |
| Built-in processor                   | Yes                                                                                                                                                                         |
| Antennas quantity                    | 5                                                                                                                                                                           |
| Market positioning                   | Industrial                                                                                                                                                                  |
| Product colour                       | Black                                                                                                                                                                       |
| Quasi-Zenith Satellite System (QZSS) | Yes                                                                                                                                                                         |
| Port forwarding                      | Yes                                                                                                                                                                         |
| Galileo                              | Yes                                                                                                                                                                         |
| BeiDou                               | Yes                                                                                                                                                                         |
| Antenna connector type               | SMA/RP-SMA                                                                                                                                                                  |
| Position location                    | Yes                                                                                                                                                                         |
| DHCP server                          | Yes                                                                                                                                                                         |
| Product weight                       | 295 g                                                                                                                                                                       |

## Full product description

## Next-Generation Industrial Connectivity: Stability and Performance at Your Fingertips

Looking for a way to have a stable and fast connection in demanding industrial environments, but without investing in the most expensive 5G solutions? Imagine a device that combines the low latency advantages known from 5G with the affordability and flexibility your business needs. Add to that reliability with dual SIM cards, a multitude of interfaces to integrate with existing infrastructure and you have a recipe for communications success.

## Introduction to Flexible Industrial Connectivity

Teltonika RUT976 is an industrial cellular router designed for professional applications. It uses 5G RedCap technology, positioning itself between traditional 4G solutions and full-fledged 5G. As a result, it offers a balanced approach that enables you to take advantage of key fifth-generation network advantages, such as responsiveness, while keeping deployment costs under control. With a compact and ruggedized chassis, the device excels in the harsh conditions typical of industrial environments, offering stable connectivity where it is needed most.

## Benefits of RedCap's 5G Technology

What exactly does 5G RedCap (Reduced Capability), also known as NR-Light, mean? It's a standard created to bridge the technology and cost gap. The RUT976, by supporting this technology (in SA - Standalone architecture), offers the low latency inherent in 5G networks, which is crucial for applications that require fast response, such as industrial automation and remote control. At the same time, by reducing complexity compared to full 5G, the technology becomes more affordable and better suited to many IoT (Internet of Things) applications, where not only speed but also cost efficiency matters. The RUT976 enables wireless support for up to 100 end devices.

## Reliability of Connection in Any Condition

Continuity of operation is fundamental in professional applications. The Teltonika RUT976 takes care of it in several ways. First, it features two SIM card slots (Dual SIM) with automatic failover. If one carrier fails or loses coverage, the router will automatically switch to the other card, minimizing the risk of downtime. In addition, the WAN failover feature allows you to set up a backup Internet source (such as a cable connection) to which the device will switch in case of problems with the mobile network. Importantly, if 5G coverage is limited, the RUT976 is backward-compatible with proven 4G LTE Category 4 technology, expanding its use in a variety of locations.

## Comprehensive Interfaces and Functions

The RUT976 router is a real communication center thanks to its rich set of ports and interfaces. It features:

- 4 Fast Ethernet ports (10/100 Mbps), which can be configured flexibly, including using VLAN functionality for network segmentation.
- Serial interfaces: RS232 and RS485, essential for communication with older industrial machines, PLCs or sensors.
- Configurable I/O (input/output) connector block for monitoring events (e.g., cabinet door opening) or remote control of simple devices.
- WiFi module acting as a wireless access point (Access Point) with hotspot function.
- Built-in GNSS receiver (GPS, GLONASS, BeiDou, Galileo, QZSS) providing precise location data and enabling time synchronization (NTRIP support).

## Advanced Management and Industrial Protocols

At the heart of the router is the RutOS operating system (based on OpenWrt), which offers extensive configuration options and customization of the device to meet specific needs. The RUT976 supports popular industrial protocols such as MQTT, BACnet and OPC UA, which facilitates integration within existing SCADA systems or IoT platforms. The device is fully compatible with Teltonika's Remote Management System (RMS). The RMS platform enables remote monitoring of device fleets, mass configuration, software updates and diagnostics, significantly simplifying the management of distributed network infrastructure and increasing security.