



INDUSTRIAL 5G ROUTER

Advanced communication system
for data transmission and monitoring
in demanding conditions



5G

Ultra-high cellular speeds of up to 3.3 Gbps

DUAL SIM

With auto failover, backup WAN and other switching scenarios

SA & NSA

Supports both architectures to leverage the 5G infrastructure

FUTURE-PROOFING

Backward compatible with 4G (LTE CAT 20) and 3G network technologies



5G Router

Description of the device

The 5G Router is an industrial-grade networking solution designed for applications requiring high-speed, reliable connectivity and maximum data throughput. The device offers a wide range of features ensuring scalability, security, and seamless integration with existing network infrastructures.

Operating on RutOS, the router provides advanced security functionalities and supports specialized industrial protocols. Remote Management System (RMS) compatibility enables fleet monitoring and remote device management in the most demanding environments.

The 5G Router integrates modern technologies with high reliability, making it adaptable to dynamic professional environments.

Functionality

- ✓ 5G connectivity with dual SIM – supports SA and NSA architectures for flexible infrastructure integration
- ✓ Up to 3.3 Gbps throughput – enables high-speed data transfer for demanding applications
- ✓ Backward compatibility with 4G and 3G – allows seamless deployment in existing systems
- ✓ 5 Gigabit Ethernet ports – ensure high-performance data transmission in local networks
- ✓ Dual-band Wi-Fi – stable connectivity in both 2.4 GHz and 5 GHz frequency bands
- ✓ Automatic failover – backup WAN and redundancy ensure continuous operation
- ✓ Advanced security features – RutOS functions tailored for industrial environments
- ✓ Support for industrial protocols – including Modbus, MQTT, and SNMP
- ✓ Remote fleet management – RMS enables configuration, alerts, and firmware-over-the-air updates (FOTA)
- ✓ Rugged design – engineered for operation in harsh environments

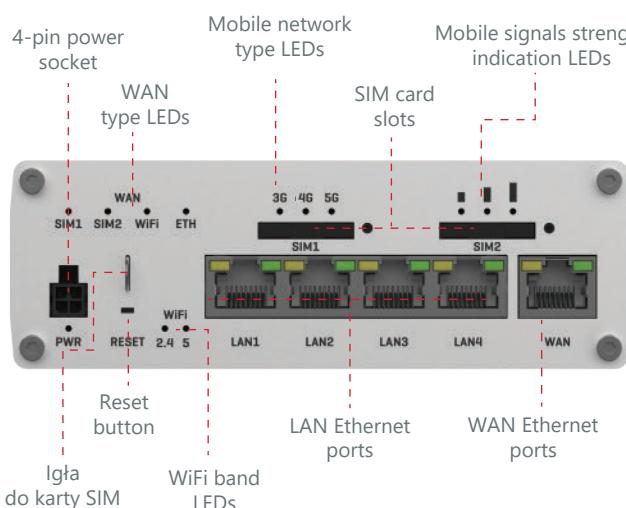
Technical parameters

| | |
|-------------------------------|---|
| Mobile | 5G Sub-6Ghz SA/NSA 2.1/3.3Gbps DL (4x4 MIMO), 900/600 Mbps UL (2x2); 4G (LTE) – LTE Cat 20 2.0Gbps DL, 200Mbps UL; 3G – 42 Mbps DL, 5.76Mbps UL |
| CPU | Quad-core ARM Cortex A7, 717 MHz |
| Flash Memory | 256 MB |
| RAM | 256 MB |
| Powering options | 4-pin socket, 9–50 VDC |
| SIM | 2 x SIM slot (Mini SIM – 2FF), 1.8 V/3 V |
| Antenna connectors | 4 × SMA (mobile), 2 × RP-SMA (WiFi), 1 × SMA (GNSS) |
| Ethernet | 5 × 10/100/1000 Mbps ports (1 × configurable WAN/LAN, 4 × LAN) |
| WiFi | 802.11b/g/n/ac Wave 2 (WiFi 5) with data transmission rates of up to 867 Mbps (Dual Band, MU-MIMO), 802.11r fast transition, Access Point (AP), Station (STA) |
| Wireless mesh/roaming | Obsługa sieci mesh (802.11s), szybki roaming (802.11r) |
| GNSS | GPS, GLONASS, BeiDou, Galileo, QZSS |
| Inputs/outputs | On 4-pin socket: 1 x Digital input, 1 x Digital open collector output |
| Other | 1 x USB Host, 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 WiFi LEDs |
| Operating temperature | -40 °C to 75 °C |
| Housing | Aluminum 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 | 533 g |

SOFTWARE

| | |
|----------------------------------|--|
| Operating system | RutOS (OpenWrt based Linux OS) |
| Mobile features | Multiple PDN, Auto APN, Band lock, SIM switch, Operator black/white list, Data/SMS limits |
| Network features | Routing, Failover, Firewall, DHCP, DDNS, Load Balancing, VoIP passthrough, Connection monitoring |
| Monitoring and Management | WEB UI, CLI, SSH, CALL, SMS, TR-069, SNMP, JSON-RPC, MQTT, MODBUS, RMS |
| VPN and tunneling | OpenVPN, IPsec, GRE, PPTP, L2TP, Stunnel, DMVPN, SSTP, WireGuard, ZeroTier |
| Cloud solutions | RMS, FOTA, Azure IoT Hub, Cloud of Things, Cumulocity, ThingWorx |
| Hotspot | External/Internal Radius, SMS OTP, MAC authentication, Walled Garden |
| GNSS | NMEA forwarding, AVL, Geofencing |

FRONT VIEW



BACK VIEW

