

TRB500



TRB500 360° VIEW

INDUSTRIAL 5G GATEWAY

// The TRB500 gateway is a compact-sized and energy-efficient industrial gateway with a Gigabit Ethernet interface and two configurable Inputs/Outputs, allowing high-level customization and implementation of various scenarios.

// This device enables 5G network speeds with ultra-low latency for mission-critical infrastructures and high data throughput ensured by 4 external antennas allowing to utilize 4x4 MIMO.

// TRB500 comes with a RutOS operating system that provides advanced security features and is congruent with Remote Management System (RMS) for easy remote control and monitoring capabilities.



5G

Ultra-high cellular speeds of up to 1 Gbps

SA & NSA

Supports both architectures to leverage the 5G infrastructure

COMPACTNESS

One of the smallest 5G gateways available in the market

FUTURE-PROOFING

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



RMS REMOTE MANAGEMENT SYSTEM COMPATIBLE WITH TRB500

MANAGEMENT

ALERTS

CONFIGURATION

ACCESS

FOTA

KEY FEATURES

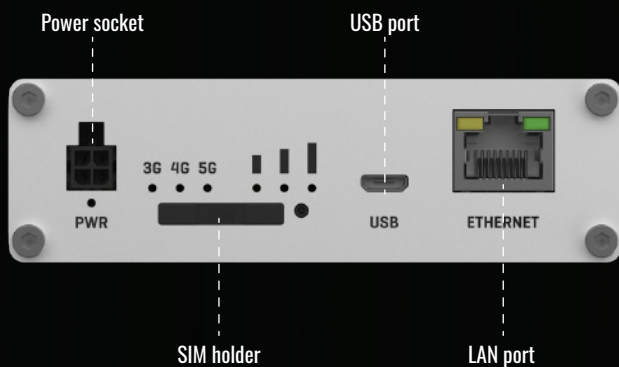
HARDWARE

| | |
|------------------------|---|
| 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 | Single core ARM Cortex A7, 1,5 GHz |
| Flash Storage | 512 MB |
| RAM | 256 MB |
| Powering option | 4-pin power socket, 9-30 VDC |
| SIM | 1 x SIM slot (Mini SIM - 2FF), 1.8 V/3 V |
| Antenna connectors | 4 x SMA for Mobile |
| Ethernet | 1x 10/100/1000 Mbps Ethernet port |
| Inputs/Outputs | On 4-pin socket: 1 x Digital input, 1 x Digital open collector output |
| Other | 1 x Micro USB slave, 1 x Grounding screw |
| Status LEDs | 3 x connection type status LEDs, 3 x connection strength LEDs, 2 x LAN status LEDs, 1 x Power LED |
| Operating temperature | -40° C to 75° C |
| Housing | Aluminium housing, DIN rail (can be mounted on two sides), flat surface placement |
| Dimensions (W x H x D) | 100 x 30 x 93,4 mm |
| Weight | 241g |

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 protocols | TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, SMTP, SSL v3, TLS, PPP, PPPoE, SSH, DHCP, SNMP, MQTT, Wake on LAN (WOL) |
| Network features | Routing, Failover, Firewall, DHCP, QoS, 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, WireGuard, ZeroTier |
| Cloud solutions | RMS, FOTA, Azure IoT Hub, Cloud of Things, Cumulocity, ThingWorx |
| Security | Authentication, Pre-configured firewall rules, Attack prevention, Mobile quota control, WEB filter, Access control |

FRONT VIEW



BACK VIEW

