

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 I/Os, allowing high-level customization and implementation of a multitude of scenarios.

// This device enables 5G network speeds with ultra-low latency for mission-critical infrastructures and high data throughput, ensured by 4 external antennas that allow the use of 4x4 MIMO.

// TRB500 comes with the RutOS operating system, which provides advanced security features and compatibility with our Remote Management System (RMS) for optimized remote management and monitoring capabilities of large fleets of devices.



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



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KEY FEATURES

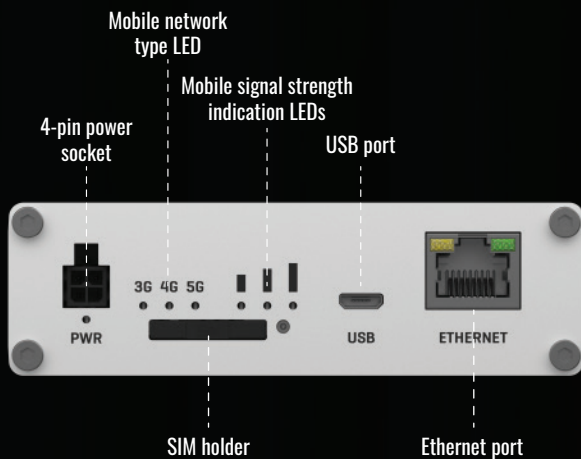
HARDWARE

| | |
|------------------------|---|
| 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 | 1 x 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 | 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, 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

