TRB500

INDUSTRIAL 5G GATEWAY

TRB500 360° VIEW

// 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

KEY FEATURES

HARDWARE

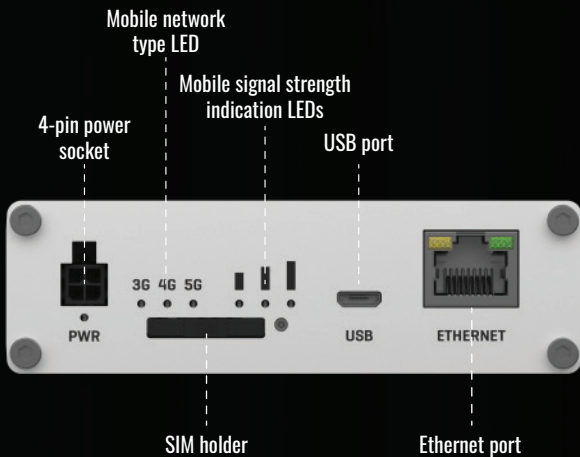|	
Mobile	5G Sub-6Ghz SA/NSA 2.1/3.3Gbps DL (4x4 MIMO), 900/600 Mbps UL (2x2); 4G (LTE) – LTE Cat 20 2.0Gbps DL, 200Mbps UL; 3G – 42 Mbps DL, 5.76Mbps UL
CPU	Single core ARM Cortex A7, 1,5 GHz
Flash Storage	512 MB
RAM	256 MB
Powering option	4-pin power socket, 9-30 VDC
SIM	1 x SIM slot (Mini SIM – 2FF), 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

4-pin power socket

Mobile network type LED

Mobile signal strength indication LEDs

USB port

Reset button

Grounding screw

3G 4G 5G

PWR

USB

ETHERNET

MOBILE

RESET

SIM holder

Ethernet port

Mobile antenna connectors