TRB255

INDUSTRIAL M2M GATEWAY

TRB255 360° VIEW

CONNECTIVITY

4G/LTE (Cat M1), NB-IoT, 2G

SERIAL PORTS

RS232/RS485 serial communication interfaces

I/O

Multiple Inputs and Outputs for remote monitoring and control

9-30V

Wide range of power supply voltages

DUAL SIM

With auto failover, backup WAN and other switching scenarios

GNSS

Global Navigation Satellite System for location services with geofencing functionality

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TRB255

PRODUCT DESCRIPTION

// TRB255 can be used to integrate modern and legacy industrial equipment into one solution via RS232, RS485 & Ethernet interfaces.

// This industrial LTE Cat M1 & NB-IoT gateway is backward compatible to EGPRS (2G) networks. It can still be used with 2G network, however in case it gets shut down, there is a possibility to switch to LPWAN connectivity options.
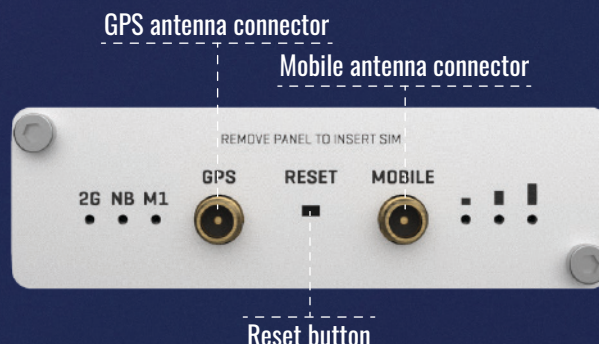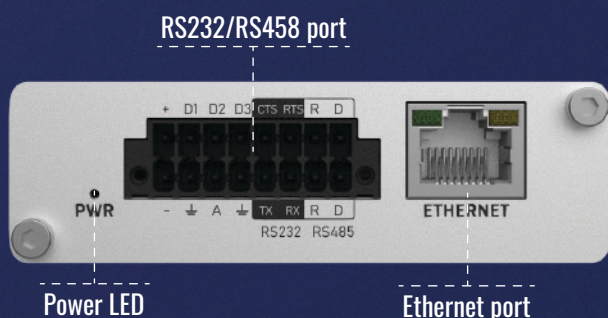
// TRB255 has a wide range of industrial and networking features such as Modbus, SMS control, Firewall, OpenVPN and more.

// This product is compatible with the Teltonika Networks Remote Management System (RMS).

FRONT VIEW

RS232/RS458 port

Power LED

Ethernet port

BACK VIEW

GPS antenna connector

Mobile antenna connector

Reset button

KEY FEATURES

HARDWARE

Mobile	4G/LTE (Cat M1), NB-IoT, 2G
CPU	Qualcomm, MIPS 24Kc, 650 MHz
Memory	16 MBytes Flash, 64 MBytes RAM
Powering option	16pin terminal, 9-30 VDC
SIM	2 x Internal SIM holders (2FF)
Antenna connectors	1 x SMA for mobile, 1 x SMA for GPS
Ethernet	1 x 10/100 Ethernet port
GNSS	GPS, GLONASS, BeiDou, Galileo, QZSS
Inputs/Outputs	On 16pin socket: 3 x Digital input/Digital open collector output (configurable), 1 x Analog input
Serial	1 x RS232, 1 x RS485
Status LEDs	3 x Connection type, 3 x Signal strength, 2 x Ethernet, 1 x Power
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing with DIN rail mounting option
Dimensions (W x H x D)	83 x 25 x 74 mm
Weight	165 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 protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, DHCP, Telnet
Monitoring and Management	WEB UI, CLI, SSH, SMS, TR-069, SNMP, JSON-RPC, MQTT, RMS
Connection monitoring	Ping Reboot, Wget reboot, Periodic Reboot, LCP and ICMP for link inspection
Cloud solutions	RMS, FOTA, Telenor, Azure IoT Hub, Cloud of Things, Cumulocity, ThingWorx
NTP	NTP Server, NTP Client, Sync with: External NTP server, GNSS, Mobile operator
GNSS	NMEA forwarding, AVL, Geofencing
Modbus	TCP slave, TCP master, RTU master, RTU gateway, Modbus over MQTT
Serial	Console, Over IP, Modem, NTRIP, Modbus
Administration	Multi user, Configuration profiles, Diagnostics, logs, Configuration backup

── RMS ──

RMS | REMOTE MANAGEMENT SYSTEM
COMPATIBLE WITH TRB255

MANAGEMENT | ALERTS | CONFIGURATION | ACCESS | FOTA

── SOCIAL ──

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