TRB255

INDUSTRIAL CELLULAR LTE CAT M1 / NB-IOT / EGPRS GATEWAY

TRM255 is an Industrial Cellular Gateway with multiple LPWAN connectivity options. This gateway is very flexible, because it is equipped with Ethernet, Serial (RS232 + RS485) interfaces and multiple Inputs/Outputs. It features NB-IoT, LTE Cat-M1 and is backwards compatible to EGPRS (2G). Because of multiple cellular connectivity options, it offers cost-efficient and scalable way to upgrade a large amount of legacy infrastructure or implement new long-term M2M connectivity projects. Finally, location positioning technology (GNSS) and Dual-SIM functionality along with compatibility with Teltonika Remote Management system will make sure that your infrastructure is not only reliably connected, but also easy to monitor and control.

LTE Cat M1 / Cat NB1 / EGPRS Communication

Dual-SIM with auto Failover for additional reliability

GNSS positioning with geofencing functionality

RS232/RS485 serial communication interfaces

Multiple Inputs/Outputs for remote monitoring and control

Teltonika Remote Management System compatible

INDUSTRIAL

LTE Cat-M1 / NB-IoT / EGPRS for IIoT

Serial Interfaces RS232 & RS485

Dual-SIM for extra redundancy

ROBUST

Supports wide range of industrial networking protocols

Rugged aluminium housing

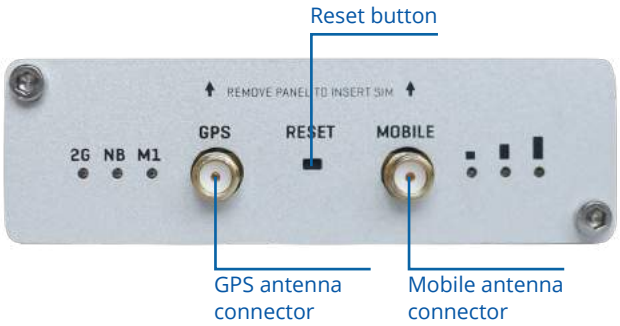
External temperature range (-40 +75 C)

SECURE

Multiple VPN options

Advanced Firewall functionality

Secure management with Remote Management System



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

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