**TELTONIKA**

# 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

RS232/RS485 serial communication interfaces

Dual-SIM with auto Failover for additional reliability

Multiple Inputs/Outputs for remote monitoring and control

GNSS positioning with geofencing functionality

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

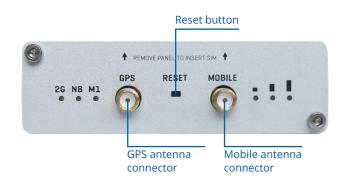External temperature range (-40 +75 C)

## SECURE

Multiple VPN options

Advanced Firewall functionality

Secure management with Remote Management System

RS232/RS485 port

Reset button



Power LED

Ethernet port

GPS antenna connector

Mobile antenna connector

## 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 |