

# TRB145

## RS485 GSM GATEWAY BOARD

Industrial GSM/GPRS Gateway Board TRB145 is equipped with an RS485 Interface, Digital Inputs/Outputs and a microUSB port. TRB145 compact design makes this Gateway perfect for an application where a sole gadget must be remotely controlled over RS485 interface. TRB145 is engineered to be used in Industrial applications, therefore, it has a wide range of software features such as SMS control, Firewall, OpenVPN, IPsec, RMS and FOTA support.



RS485 - industrial differential serial communication



GSM/GPRS for M2M IoT connectivity



Compact size, easy integration



9-30V

Wide range of power supply voltages



Teltonika Remote Management System compatible



OpenLinux based OS allows high software customisation

### EFFICIENT

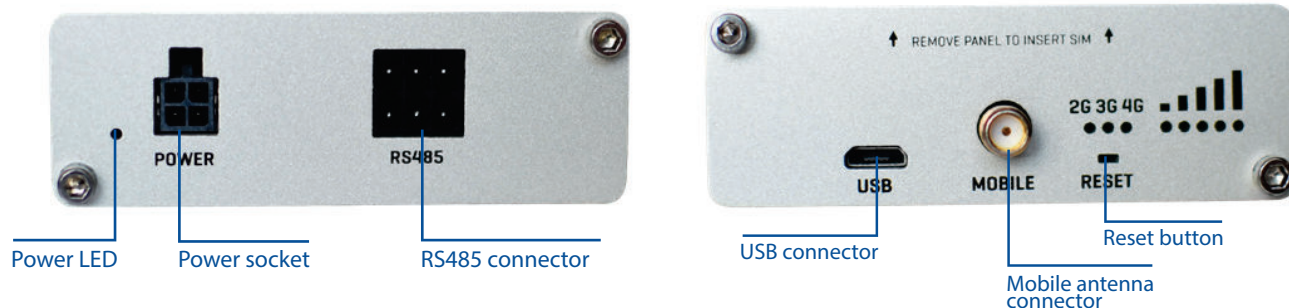
Easy Integration  
Compact size  
Low Power consumption

### ADVANCED

LTE Cat 1 for M2M via RS485  
High Performance  
Open platform with SDK

### SECURE

OpenVPN and IPsec  
Embedded Firewall  
Encrypted management with Remote Management System



## Hardware

Mobile	LTE (Cat1)/3G/2G
SIM slot	Mini SIM (2FF)
Antenna connector	1 x SMA for GSM
RS485	Full Duplex (4 wires) and Half Duplex (2 wires), baud rate 300 - 115200
Input/Output	2 x Digital/Analog Inputs/Outputs (configurable)
CPU	ARM Cortex-A7 1.2 GHz CPU
RAM	128 MBytes (50 MBytes available for userspace)
Flash	512 MBytes (70 MBytes available for userspace)
Input voltage range	9 - 30 VDC
Power connector	4 pin industrial DC power socket
Configuration interface	Virtual NIC via Micro-USB connector
LED Indicators	Power, signal, network and data status LEDs
Operating temperature	-40° C to 75° C
Dimensions	60 mm x 70 mm x 18 mm
Weight	149.8 g

## Software

Operating system	Linux OS with Yocto SDK (offering high software customisation)
Network	NAT, Firewall (port forward, traffic rules, custom rules), DDNS ( >25 service providers supported)
RS485 related services	Modbus, Serial over IP, NTRIP
Remote management	RMS Support, FOTA support, SSH, CLI, SMS Utilities (status/configuration)
Status watchdogs	Ping reboot, periodic reboot
Additional features	Internet connectivity over USB virtual network interface