TELTONIKA

TRB247

CAT 1 BIS IOT GATEWAY

TRB247 360° VIEW

Tailored for the North American market, the TRB247 is a compact IoT gateway with reliable LTE Cat 1 bis connectivity. It bridges legacy systems with modern cloud platforms, offering seamless integration with a Gigabit Ethernet port, configurable I/O ports, and RS232/RS485 interfaces. Dual SIM and optional eSIM with failover and native industrial protocol support ensure reliability and compatibility with IIoT infrastructure.

Made in Lithuania
TELTONIKA NETWORKS UAB
K. Barsausko st. 66
LT-51436 Kaunas, Lithuania

TRB247
Power: 9-30 V ⎓   Default IP: 192.168.1.1

RELIABLE LTE
Stay connected with LTE Cat 1 bis and dual SIM failover

SCADA-READY
Modbus, DNP3, DLMS, OPC UA & BACnet for industrial integration

DATA-TO-SERVER
Collect transport data via MQTT or HTTP

INDUSTRIAL DESIGN
Aluminum housing, wide temperature range & DIN rail mounting

REMOVE PANEL TO INSERT SIM

LTE   GPS   RESET   MOBILE
SIM1 / SIM2

PWR   + D1 D2 D3 CTS RTS R+ D+
− ⏚ A ⏚ TX RX R− D−
RS232 RS485   ETHERNET

RMS
REMOTE MANAGEMENT SYSTEM

COMPATIBLE WITH TRB247

MANAGEMENT | ALERTS | CONFIGURATION | ACCESS | FOTA

KEY FEATURES

HARDWARE
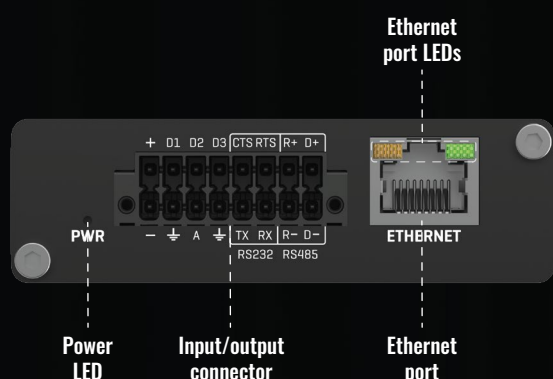
Mobile	4G LTE Cat 1 bis up to 10 DL/5 UL Mbps
CPU	Mediatek, 580 MHz, MIPS 24KEc
RAM	128 MB, DDR2
Storage	16 MB, SPI Flash
Powering options	2-pin in 16-pin industrial terminal block, 9 - 30 VDC
SIM	2 x SIM slots (Mini SIM – 2FF), 1.8 V/3 V, double stacked SIM tray
Antenna connectors	1 x SMA connector for LTE, 1 x SMA connector for GNSS
Ethernet	1 x RJ45 ports, 10/100 Mbps
GNSS	GPS, GLONASS, BeiDou, Galileo and QZSS
Inputs/Outputs	3 x Digital Input, 0 - 6 V detected as logic low, 8 - 30 V detected as logic high, 3 x Digital Output, Open collector output, max output 30 V, 300 mA
Serial	RS232, RS485
Status LEDs	1 x connection status LED, 3 x connection strength LEDs, 1 x power LED, 1 x Eth port status LED
Operating temperature	-40 °C to 75 °C
Housing	Anodized aluminum housing and panels
Dimensions (W x H x D)	83 x 25 x 82.6 mm
Weight	181 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Mobile features	SIM switch, Status, SMS, USSD, Black/White list, Multiple PDN, Band management, SIM idle protection service, SIM PIN code management, APN, Bridge, Passthrough, Framed routing
Network features	VoIP passthrough support, Connection monitoring, Firewall, Firewall status page, Ports management, Network topology, Hotspot, DHCP, QoS / Smart Queue Management (SQM), DNS over HTTPS, DDNS, Network backup, Load balancing, SSHFS, VRF support , Traffic Management, Port Mirroring
Security	Authentication, Firewall, Attack prevention, VLAN, Mobile quota control, WEB filter, Access control, SSL certificate generation, 802.1x
VPN and tunneling	OpenVPN, OpenVPN Encryption, IPsec, GRE, PPTP, L2TP, Stunnel, DMVPN, SSTP, ZeroTier, WireGuard, Tinc, Tailscale
Monitoring and Management	WEB UI, FOTA, SSH, SMS, Call, Email, TR-069, MQTT, SNMP, JSON-RPC, RMS
Cloud solutions	RMS, ThingWorx, Cumulocity - Cloud of Things, Azure IoT Hub
Services	BacNET, OPC UA, Modbus, Data to Server, Modbus MQTT GATEWAY, DNP3, DLMS
Location Tracking	GNSS, Coordinates, NMEA, NTRIP, Server software, Geofencing

FRONT VIEW

Ethernet port LEDs

Power LED

Input/output connector

Ethernet port

BACK VIEW

Mobile network type LED

Reset button

Mobile signal strength indication LEDs

REMOVE PANEL TO INSERT SIM

GPS antenna connector

Mobile antenna connector