TRB246

INDUSTRIAL IOT GATEWAY

The TRB246 is an industrial 4G LTE gateway equipped with I/Os, RS232, RS485, and Ethernet interfaces for IoT solutions requiring versatility and reliable M2M communication support. This gateway has dual SIM functionality and supports multiple protocols, like DNP3, DLMS, and Modbus, vital for ensuring smooth data transmission. Encased in aluminium housing, this industrial-grade IoT gateway can tolerate extreme environmental conditions in manufacturing, agriculture, or construction

TELTONIKA | Networks

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TRB246

Power: 9-30 V ⎓   Default IP: 192.168.1.1

CONNECTIVITY

4G/LTE (Cat 4), 3G, 2G

DUAL SIM

Auto-failover, backup WAN, and more switching scenarios

INTERFACES

Ethernet, I/Os, and serial (RS232, RS485) interfaces with 16-pin terminal block

PROTOCOLS

Supports DNP3, DLMS, Modbus, and other communication protocols

REMOVE PANEL TO INSERT SIM

2G 3G 4G   GPS   RESET   MOBILE

SIM1
SIM2

+ D1 D2 D3 CTS RTS R+ D+

PWR

− ⏚ A ⏚ TX RX R− D−
RS232 RS485

ETHERNET

RMS
REMOTE MANAGEMENT SYSTEM

COMPATIBLE WITH TRB246

KEY FEATURES

HARDWARE

Mobile	4G (LTE) – LTE Cat 4 150 Mbps DL, 50Mbps UL; 3G - 42 Mbps DL, 5.76 Mbps UL; 2G - 296 Kbps DL, 236.8 Kbps UL
CPU	Mediatek, 580 Mhz, MIPS 24KEc
Storage	128 MB
Memory	16 MB
Powering options	16-pin terminal, 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 Mobile, 1 x SMA connector for GNSS
Ethernet	1 x RJ45 port, 10/100 Mbps
GNSS	GPS, GLONASS, BeiDou, Galileo and QZSS
Inputs/Outputs	3 x Configurable digital I/O in 16-pin terminal block
Serial	1 x RS232, 1 x RS485
Status LEDs	3 x connection status LEDs, 3 x connection strength LEDs, 1 x power LED, 1 x ETH port status LED
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing
Dimensions (W x H x D)	83 x 25 x 74.2 mm
Weight	165 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Mobile features	Auto APN, Band lock, SIM switch, Operator black/white list, Data/SMS limits, Bridge, Passthrough
Network features	Routing, Network protocols, VoIP passthrough support, Connection monitoring, Firewall, Firewall status page, Ports management, Network topology, Hotspot, DHCP, QoS / Smart Queue Management (SQM), DDNS, Network backup, SSHFS
Monitoring and Management	WEB UI, FOTA, SSH, SMS, Call, TR-069, MQTT, SNMP, JSON-RPC, RMS
VPN and tunneling	OpenVPN, IPsec, GRE, PPTP, L2TP, Stunnel, DMVPN, SSTP, ZeroTier, WireGuard, Tinc
Cloud solutions	RMS, FOTA, Azure IoT Hub, Cloud of Things, Cumulocity, ThingWorx
Hotspot	Captive portal (Hotspot), internal/external Radius server, SMS authorization, internal/external landing page, walled garden, user scripts, URL parameters, user groups, individual user or group limitations, user management, 9 default customizable themes
GNSS	GNSS, Coordinates, NMEA, NTRIP, Server software, Geofencing

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FRONT VIEW

Power LED
Input/output connector
Ethernet port LEDs
Ethernet port

BACK VIEW

Mobile network type LEDs
Reset button
Mobile signal strength indication LEDs
GPS antenna connector
Mobile antenna connector