

TRB256

INDUSTRIAL NB-IOT GATEWAY



TRB256 360° VIEW

The TRB256 is an industrial 4G LTE NB-IoT gateway designed to be applied to a broad range of IoT solutions. The device is equipped with multiple WAN interfaces, such as I/Os, RS232, RS485, and an Ethernet port, additionally boasting dual SIM functionality for continuous connectivity. This industrial-grade gateway also supports the 450 MHz frequency band, offering superior LTE signal penetration compared to standard frequencies, making it an optimal choice for a diverse range of M2M applications.



CONNECTIVITY

4G/LTE Cat M1/Cat NB1, NB2/EGPRS

450 MHZ BAND

Greater LTE signal penetration and increased connectivity coverage

DUAL SIM

Auto-failover, backup WAN, and more switching scenarios

INTERFACES

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



RMS | REMOTE MANAGEMENT SYSTEM
COMPATIBLE WITH TRB256
 MANAGEMENT | ALERTS | CONFIGURATION | ACCESS | FOTA

KEY FEATURES

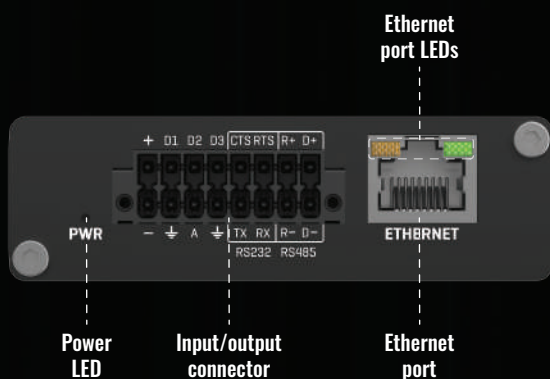
HARDWARE

Mobile	LTE Cat M1/Cat NB1, NB2/EGPRS (simultaneous operation of cellular and GNSS connectivity is not supported)
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 (simultaneous operation of GNSS and cellular connectivity is not supported)
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

FRONT VIEW



BACK VIEW

