

# TRB160

## 4G LTE CAT6 IOT GATEWAY



TRB160 360° VIEW

The TRB160 is an ultra-small, lightweight, and energy-efficient IoT gateway equipped with mission-critical LTE Cat 6, Gigabit Ethernet, and a virtual network interface via USB Type-C for simultaneous powering and network data provision. This IoT gateway can reach cellular speeds of up to 300 Mbps with carrier aggregation in a broad range of applications and supports a wide range of industrial-grade protocols for M2M communication.



### LTE CAT 6

Cellular speeds of up to 300 Mbps with carrier aggregation

### USB TYPE-C

For simultaneous powering and network data provision

### PROTOCOLS

OPC UA, Modbus, Data to Server, MQTT, DNP3, DLMS, and more

### COMPACTNESS

Small size, easy installation



# RMS COMPATIBLE WITH TRB160

REMOTE  
MANAGEMENT  
SYSTEM

MANAGEMENT

ALERTS

CONFIGURATION

ACCESS

FOTA

# KEY FEATURES

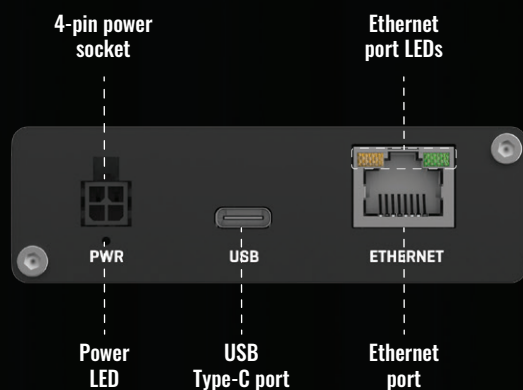
## HARDWARE

|                        |                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mobile                 | 4G (LTE) – Cat 6 up to 300 Mbps, 3G – Up to 42 Mbps                                                                                                   |
| CPU                    | Qualcomm, 1.28 Ghz, ARM Cortex-A7                                                                                                                     |
| RAM                    | 128 MB                                                                                                                                                |
| Memory                 | 256 MB                                                                                                                                                |
| Powering options       | 4-pin industrial DC power socket, 9 – 30 VDC<br>USB Type-C: 5 VDC                                                                                     |
| SIM                    | 1 x Internal SIM slot (Mini SIM – 2FF), 1.8 V/3 V, eSIM (Optional)                                                                                    |
| Antenna connectors     | 2 x SMA for Mobile                                                                                                                                    |
| Ethernet               | 1 x RJ45 port, 10/100/1000 Mbps                                                                                                                       |
| Inputs/Outputs         | 1 x Digital Input, 0 - 6 V detected as logic low, 8 - 30 V detected as logic high, 1 x Digital Output, Open collector output, max output 30 V, 300 mA |
| Other                  | 1x USB Type-C Connector USB3.0 (For power and data)                                                                                                   |
| Status LEDs            | 2 x connection type status LEDs, 3 x connection strength LEDs, 2 x ETH status LEDs, 1 x Power LED                                                     |
| Operating temperature  | -40 °C to 75 °C                                                                                                                                       |
| Housing                | Anodized aluminum housing and panels                                                                                                                  |
| Dimensions (W x H x D) | 83 x 25 x 74.2 mm                                                                                                                                     |
| Weight                 | 172 g                                                                                                                                                 |

## SOFTWARE

|                           |                                                                                                                                                                                                                                                              |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating system          | RutOS (OpenWrt based Linux OS)                                                                                                                                                                                                                               |
| Mobile features           | Status, SMS, USSD, Black/White list, Multiple PDN, Band management, APN, Bridge, Passthrough                                                                                                                                                                 |
| Network protocols         | TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, SFTP, FTP, SMTP, SSL/TLS, ARP, VRRP, PPP, PPPoE, UPNP, SSH, DHCP, Telnet, SMPP, SMNP, MQTT, Wake On Lan (WOL)                                                                                             |
| VPN and tunneling         | OpenVPN, IPsec, GRE, PPTP, L2TP, Stunnel, DMVPN, SSTP, ZeroTier, WireGuard, Tinc                                                                                                                                                                             |
| Monitoring and Management | WEB UI, FOTA, SSH, SMS, Call, TR-069, MQTT, SNMP, JSON-RPC, RMS                                                                                                                                                                                              |
| 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 |

### FRONT VIEW



### BACK VIEW

