# TRB236

INDUSTRIAL LTE 450 IOT GATEWAY




Energy & utilities

Enterprise

Industrial & automation

Retail

Smart city

## LTE 450

Extend coverage and signal reliability in utilities sector using the 450 MHz band

## FLEXIBLE 4G

Choose LTE Cat 1 / 2G or LTE Cat 4 / 3G to match local network availability

## DUAL SIM

Network redundancy, backup WAN, and more switching scenarios

## INDUSTRY-READY

Connect legacy equipment to IP networks via industrial interfaces and protocols

Copyright © 2026, UAB TELTONIKA NETWORKS.
Specifications and information provided in this document are subject to change by UAB TELTONIKA NETWORKS without prior notice.

| Mobile | |
|---|---|
| Mobile module* | 4G LTE Cat 4 up to 150 DL/50 UL Mbps; 3G up to 21 DL/5.76 UL Mbps |
| | *Feature availability varies by order code (TRB236 0*****) |
| Mobile module** | 4G LTE Cat 1 up to 10 DL/5 UL Mbps; 2G up to 236.8 DL/236.8 UL Kbps |
| | **Feature availability varies by order code (TRB236 A*****) |
| 3GPP Release | Release 9 |
| Status | IMSI, ICCID, operator, operator state, data connection state, network type, bandwidth, connected band, signal strength (RSSI), SINR, RSRP, RSRQ, EC/IO, RSCP, data sent/received, LAC, TAC, cell ID, ARFCN, UARFCN, EARFCN, MCC, and MNC |
| SMS | SMS status, SMS configuration, EMAIL to SMS, SMS to EMAIL, SMS to HTTP, SMS to SMS, scheduled SMS, SMS autoreply, SMPP |
| USSD | Supports sending and reading Unstructured Supplementary Service Data messages |
| Block/Allow list | Operator block/allow list (by country or separate operators) |
| Multiple PDN | Possibility to use different PDNs for multiple network access and services |
| Band management | Band lock, Used band status display |
| SIM idle protection service | Provides the possibility to configure the router to periodically switch to the unused SIM card and establish a data connection in order to prevent the SIM card from being blocked |
| SIM PIN code management | SIM PIN code management enables setting, changing, or disabling the SIM card's PIN |
| APN | Auto APN |
| Bridge | Direct connection (bridge) between mobile ISP and device on LAN |
| Passthrough | Gateway assigns its mobile WAN IP address to another device on LAN |

| Ethernet | |
|---|---|
| Ethernet | 1 x ETH port, 10/100 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX crossover |

Copyright © 2026, UAB TELTONIKA NETWORKS.
Specifications and information provided in this document are subject to change by UAB TELTONIKA NETWORKS without prior notice.

| Network | |
|---|---|
| Routing | Static routing, Dynamic routing (BGP, OSPF v2, RIP v1/v2, EIGRP, NHRP), Policy based routing |
| 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, SNMP, MQTT, Wake On Lan (WOL), VXLAN |
| VoIP passthrough support | H.323 and SIP-alg protocol NAT helpers, allowing proper routing of VoIP packets |
| Connection monitoring | Ping Reboot, Wget Reboot, Periodic Reboot, LCP and ICMP for link inspection |
| Firewall | Port forward, traffic rules, custom rules, TTL target customisation |
| Firewall status page | View all your Firewall statistics, rules, and rule counters |
| Port management | View device ports, enable and disable each of them, turn auto-configuration on or off, change their transmission speed, and so on |
| Network topology | Visual representation of your network, showing which devices are connected to which other devices |
| Hotspot | Captive portal (hotspot), internal/external Radius server, Radius MAC authentication, SMS authorisation, SSO authentication, internal/external landing page, walled garden, user scripts, URL parameters, user groups, individual user or group limitations, user management, 9 default customisable themes and optionality to upload and download customised hotspot themes |
| DHCP | Static and dynamic IP allocation, DHCP relay, DHCP server configuration, status, static leases: MAC with wildcards |
| QoS / Smart Queue Management (SQM) | Traffic priority queuing by source/destination, service, protocol or port, WMM, 802.11e |
| DDNS | Supported >77 service providers, others can be configured manually |
| DNS over HTTPS | DNS over HTTPS proxy enables secure DNS resolution by routing DNS queries over HTTPS |
| Network backup | Mobile, VRRP, Wired options, each of which can be used as an automatic Failover |
| SSHFS | Possibility to mount remote file system via SSH protocol |
| Traffic Management | Real-time monitoring, wireless signal charts, traffic usage history |

Copyright © 2026, UAB TELTONIKA NETWORKS.
Specifications and information provided in this document are subject to change by UAB TELTONIKA NETWORKS without prior notice.

| Security | |
|---|---|
| Authentication | Pre-shared key, digital certificates, X.509 certificates, TACACS+, Internal & External RADIUS users authentication, IP & login attempts block, time-based login blocking, built-in random password generator |
| Firewall | Preconfigured firewall rules can be enabled via WebUI, unlimited firewall configuration via CLI, DMZ, NAT, NAT-T, NAT64 |
| Attack prevention | DDOS prevention (SYN flood protection, SSH attack prevention, HTTP/HTTPS attack prevention), port scan prevention (SYN-FIN, SYN-RST, X-mas, NULL flags, FIN scan attacks) |
| VLAN | Tag-based VLAN separation |
| Mobile quota control | Mobile data limit, customizable period, start time, warning limit, phone number |
| WEB filter | Block list for blocking out unwanted websites, allow list for specifying allowed sites only |
| Access control | Flexible access control of SSH, Web interface, CLI and Telnet |
| Certificate Manager | Certificate creation tool allows to create CA, server, client, let's encrypt, SCEP certificates |
| **VPN** | |
| OpenVPN | Multiple clients and a server can run simultaneously, 27 encryption methods |
| OpenVPN Encryption | DES-CBC 64, RC2-CBC 128, DES-EDE-CBC 128, DES-EDE3-CBC 192, DESX-CBC 192, BF-CBC 128, RC2-40-CBC 40, CAST5-CBC 128, RC2-64-CBC 64, AES-128-CBC 128, AES-128-CFB 128, AES-128-CFB1 128, AES-128-CFB8 128, AES-128-OFB 128, AES-128-GCM 128, AES-192-CFB 192, AES-192-CFB1 192, AES-192-CFB8 192, AES-192-OFB 192, AES-192-CBC 192, AES-192-GCM 192, AES-256-GCM 256, AES-256-CFB 256, AES-256-CFB1 256, AES-256-CFB8 256, AES-256-OFB 256, AES-256-CBC 256 |
| IPsec | XFRM, IKEv1, IKEv2, with 14 encryption methods for IPsec (3DES, DES, AES128, AES192, AES256, AES128GCM8, AES192GCM8, AES256GCM8, AES128GCM12, AES192GCM12, AES256GCM12, AES128GCM16, AES192GCM16, AES256GCM16) |
| GRE | GRE tunnel, GRE tunnel over IPsec support |
| PPTP, L2TP | Client/Server instances can run simultaneously, L2TPv3, L2TP over IPsec support |
| Stunnel | Proxy designed to add TLS encryption functionality to existing clients and servers without any changes in the program’s code |
| DMVPN | Method of building scalable IPsec VPNs, Phase 2 and Phase 3 and Dual Hub support |
| SSTP | SSTP client instance support |
| ZeroTier | ZeroTier VPN client support |
| WireGuard | WireGuard VPN client and server support |
| Tinc | Tinc offers encryption, authentication and compression in it's tunnels. Client and server support. |

Copyright © 2026, UAB TELTONIKA NETWORKS.
Specifications and information provided in this document are subject to change by UAB TELTONIKA NETWORKS without prior notice.

| BacNET | |
|---|---|
| Supported modes | Router |
| Supported connection types | IP, RTU (RS485) |
| Configuration options | Support for multiple BACnet/IP interfaces, Network number assignment, Preconfigured BDT entries for BBMD (BACnet Broadcast Management Device) |

| OPC UA | |
|---|---|
| Supported modes | Client, Server |
| Supported connection types | TCP |

| MQTT Gateway | |
|---|---|
| Modbus MQTT Gateway | Allows sending commands and receiving data from MODBUS Server through MQTT broker |

| MODBUS | |
|---|---|
| Supported modes | Server, Client |
| Supported connection types | RTU (RS232, RS485), TCP |
| Custom registers | MODBUS TCP custom register block requests, which read/write to a file inside the router, and can be used to extend MODBUS TCP Client functionality |
| Supported data formats | 8-bit: INT, UINT; 16-bit: INT, UINT (MSB or LSB first); 32-bit: float, INT, UINT (ABCD (big-endian), DCBA (little-endian), CDAB, BADC), HEX, ASCII |

| Data to Server | |
|---|---|
| Protocol | HTTP(S), MQTT, Azure MQTT |
| Data to server | Extract parameters from multiple sources and different protocols, and send them all to a single server; Custom LUA scripting, allowing scripts to utilize the router's Data to server feature |

| DNP3 | |
|---|---|
| Supported modes | Station, Outstation |
| Supported connection types | RS232, RS485, TCP |

| DLMS/COSEM | |
|---|---|
| DLMS Support | DLMS - standard protocol for utility meter data exchange. Support trough serial and TCP |
| Supported modes | Client |
| Supported connection types | RS232, RS485, TCP |

Copyright © 2026, UAB TELTONIKA NETWORKS.
Specifications and information provided in this document are subject to change by UAB TELTONIKA NETWORKS without prior notice.

| API | |
|---|---|
| Teltonika Networks Web API (beta) support | Expand your device's possibilities by using a set of configurable API endpoints to retrieve or change data. For more information, please refer to this documentation: https://developers.teltonika-networks.com |

| Monitoring & Management | |
|---|---|
| WEB UI | HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, multiple event log servers, firmware update availability notifications, event log, system log, kernel log, Internet status |
| FOTA | Firmware update from server, automatic notification |
| SSH | SSH (v1, v2) |
| SMS | SMS status, SMS configuration |
| Call | Reboot, Status, Mobile data on/off, Output on/off, answer/hang-up with a timer |
| TR-069 | OpenACS, EasyCwmp, ACSLite, tGem, LibreACS, GenieACS, FreeACS, LibCWMP, Friendly tech, AVSystem |
| MQTT | MQTT Broker, MQTT publisher |
| SNMP | SNMP (v1, v2, v3), SNMP Trap, Brute force protection |
| JSON-RPC | Management API over HTTP/HTTPS |
| RMS | Teltonika Remote Management System (RMS) |

| IoT Platforms | |
|---|---|
| ThingWorx | Allows monitoring of: WAN Type, WAN IP, Mobile Operator Name, Mobile Signal Strength, Mobile Network Type |
| Cumulocity - Cloud of Things | Allows monitoring of: Device Model, Revision and Serial Number, WAN Type and IP, Mobile Cell ID, ICCID, IMEI, Connection Type, Operator, Signal Strength. Has reboot and firmware upgrade actions |
| Azure IoT Hub | Can be configured with Data to Server to send all the available parameters to the cloud. Has Direct method support which allows to execute RutOS API calls on the IoT Hub. Also has Plug and Play integration with Device Provisioning Service that allows zero-touch device provisioning to IoT Hubs |
| AWS IoT Core | Utility to interact with the AWS cloud platform. Jobs Support: Call the device's API using AWS Jobs functionality |

| System Characteristics | |
|---|---|
| CPU | Mediatek, 580 MHz, MIPS 24KEc |
| RAM | 128 MB |
| FLASH storage | 16 MB |

Copyright © 2026, UAB TELTONIKA NETWORKS.
Specifications and information provided in this document are subject to change by UAB TELTONIKA NETWORKS without prior notice.

| Firmware/Configuration | |
|---|---|
| WEB UI | Update FW from file, check FW on server, configuration profiles, configuration backup |
| FOTA | Update FW |
| RMS | Update FW/configuration for multiple devices at once |
| Keep settings | Update FW without losing current configuration |
| Factory settings reset | A full factory reset restores all system settings, including the IP address, PIN, and user data to the default manufacturer's configuration |

| FIRMWARE CUSTOMISATION | |
|---|---|
| Operating system | RutOS (OpenWrt based Linux OS) |
| Supported languages | Busybox shell, Lua, C, C++ |
| Development tools | SDK package with build environment provided |
| GPL customization | You can create your own custom, branded firmware and web page application by changing colours, logos, and other elements in our firmware to fit your or your clients' needs |
| Package Manager | The Package Manager is a service used to install additional software on the device |

| Serial | |
|---|---|
| RS232 | Terminal block connector: TX, RX, RTS, CTS |
| RS485 | Terminal block connector: D+, D-, R+, R- (2 or 4 wire interface) |
| Serial functions | Console, Serial over IP, Modem, MODBUS gateway, NTRIP Client |

| Input/Output | |
|---|---|
| Input | 3x Configurable Digital Inputs, 0 - 6 V detected as logic low, 8 - 30 V detected as logic high, 1x Analog input (0 - 30 V) |
| Output | 3x Configurable Digital Outputs, Open collector output, max output 30 V, 300 mA |
| Events | Email, RMS, SMS |
| I/O juggler | Allows to set certain I/O conditions to initiate event |

| Power | |
|---|---|
| Connector | 2-pin in 16-pin industrial terminal block |
| Input voltage range | 9–57 VDC, overvoltage protection 60 V max, reverse polarity protection 80 V max, surge protection with 64.4 V min / 71.2 V max breakdown voltage and 93.6 V maximum reverse voltage at 4.3 A maximum reverse surge current |
| Power consumption | Idle: < 2 W, Max: < 5 W |

Copyright © 2026, UAB TELTONIKA NETWORKS.
Specifications and information provided in this document are subject to change by UAB TELTONIKA NETWORKS without prior notice.

| Physical Interfaces | |
|---|---|
| Ethernet | 1 x RJ45 port, 10/100 Mbps |
| I/O's | 3 x Configurable digital I/O in 16-pin terminal block, 1x analog input |
| Status LEDs | 2 x connection status LEDs, 3 x connection strength LEDs, 1 x power LED, 1 x ETH port status LED |
| SIM | 2 x SIM slots (Mini SIM – 2FF), 1.8 V/3 V, double stacked SIM tray |
| Power | 1 x 16-pin terminal block |
| Antennas | 1 x SMA connector for Mobile |
| RS232 | 4-pin in 16-pin terminal block (TX, RX, RTS, CTS) |
| RS485 | 4-pin in 16-pin terminal block (D+, D-, R+, R-) |
| Reset | Reboot/User default reset/Factory reset button |

| Physical Specification | |
|---|---|
| Casing material | Anodised aluminium housing and panels |
| Dimensions (W x H x D) | 83 x 25 x 79.8 mm |
| Weight | 175 g |
| Mounting options | DIN rail, wall mount, flat surface (all require additional kit) |

| Operating Environment | |
|---|---|
| Operating temperature | -40 °C to 75 °C |
| Operating humidity | 10% to 90% non-condensing |
| Ingress Protection Rating | IP30 |

Copyright © 2026, UAB TELTONIKA NETWORKS.
Specifications and information provided in this document are subject to change by UAB TELTONIKA NETWORKS without prior notice.

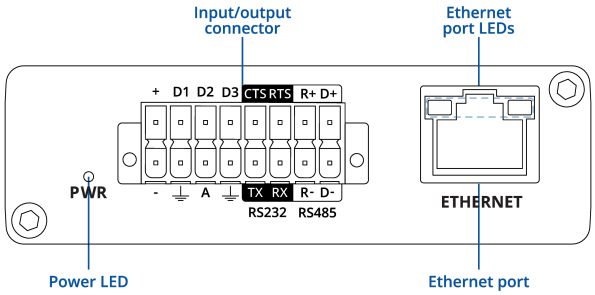
## Certification

| | |
|---|---|
| EMEA | TRB236 500<br>TRB236 500<br>TRB236 500<br>TRB236 500 |
| APAC | TRB236 500 |
| MISCELLANEOUS | TRB236 500 |
| SAFETY & ENVIROINMENTAL | TRB236 500 |

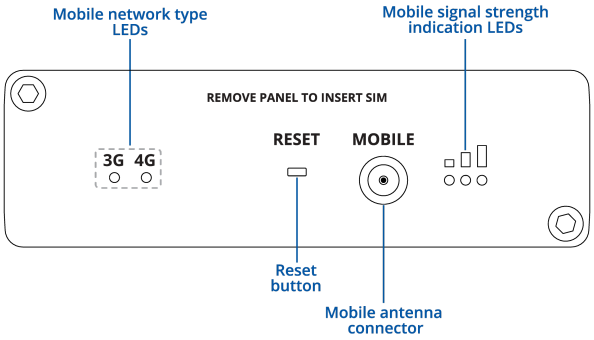
Copyright © 2026, UAB TELTONIKA NETWORKS.
Specifications and information provided in this document are subject to change by UAB TELTONIKA NETWORKS without prior notice.

# Hardware

## FRONT VIEW

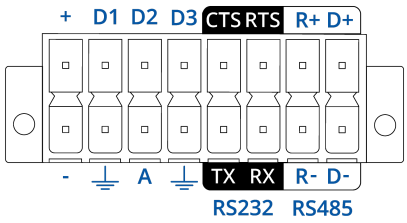



## BACK VIEW




## 16-PIN CONNECTOR PINOUT

**D1, D2, D3** - Configurable digital Input/Output pins. Open collector output, max output 30 V, 300 mA or Digital input where 0-6 V detected as logic low and 8-30 V – logic high.
**+** - 9-30 VDC positive power pin
**CTS** - RS232 clear data to send pin (output).
**RTS** - RS232 request data to send pin (input).
**R+** - RS485 receiver positive signal pin.
**D+** - RS485 driver positive signal pin.
**-** - Negative/ground power pin.
⏚ - Ground pins for D1, D2, D3, A, RS232 and RS485.
**A** - Analog input pin. Analog voltage range 0-30 V.
**TX** - RS232 transmitted data (input).
**RX** - RS232 received data (output).
**R-** - RS485 receiver negative signal.
**D-** - RS485 driver negative signal.




Copyright © 2026, UAB TELTONIKA NETWORKS.
Specifications and information provided in this document are subject to change by UAB TELTONIKA NETWORKS without prior notice.

## Ordering

**Standard package***



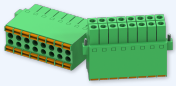

TRB236



QUICK START GUIDE



ETHERNET CABLE 1.5 M



2X8PIN CONNECTOR



HEX KEY



SIM ADAPTER KIT

*Standard package contents may differ based on standard order codes.

For more information on all available packaging options – please contact us directly.

Copyright © 2026, UAB TELTONIKA NETWORKS.
Specifications and information provided in this document are subject to change by UAB TELTONIKA NETWORKS without prior notice.

## Classification codes

**HS Code:** 851762
**HTS:** 8517.62.00

For more information on all available packaging options – please contact us directly.

## Available versions

| Hardware version | Supported frequencies | Standard order code / Package Contains |
|---|---|---|
| TRB236 **0*****<br>Europe[1], APAC[1], Australia, New Zealand, Latin America | **4G (LTE-FDD):** B1, B2, B3, B4, B5, B7, B8, B20, B28, B31, B66, B72, B87<br>**4G (LTE-TDD):** B38, B40, B41<br>**3G:** B1, B2, B4, B5, B8 | TRB236000000 / Standard package without PSU<br>TRB236000200 / Mass packing code |
| TRB236 **A*****<br>Europe[1] | **4G**: B1, B3, B5, B7, B8, B20, B28, B31, B72<br>**2G**: B3, B8 | TRB236A00000 / Standard package without PSU<br>TRB236A00200 / Mass packing code |

The price and lead-times for region (operator) specific versions may vary. For more information please contact us.

1 - Regional availability - excluding Russia, Belarus & Iran

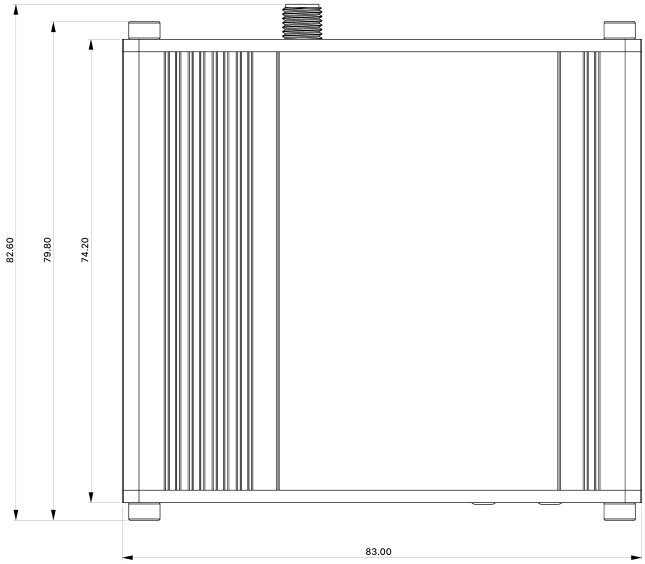
## TRB236 spatial measurements

| Available versions | |
|---|---|
| Device housing (W x H x D) | 83 x 25 x 82.6 mm |
| Box (W x H x D): | 107 x 30.6 x 100 mm |

Copyright © 2026, UAB TELTONIKA NETWORKS.
Specifications and information provided in this document are subject to change by UAB TELTONIKA NETWORKS without prior notice.

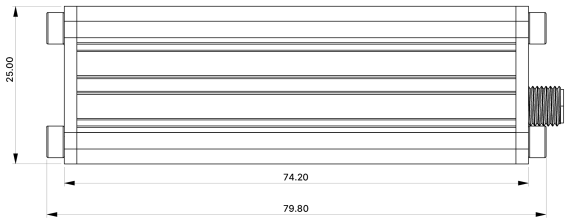
## TOP VIEW

The figure below depicts the measurements of device and its components as seen from the top:



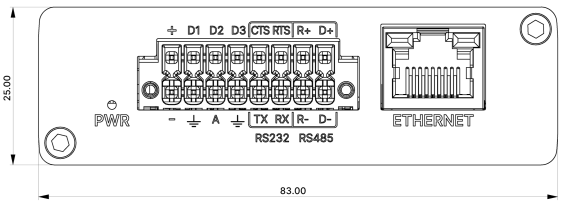

## RIGHT VIEW

The figure below depicts the measurements of device and its components as seen from the right:




## FRONT VIEW

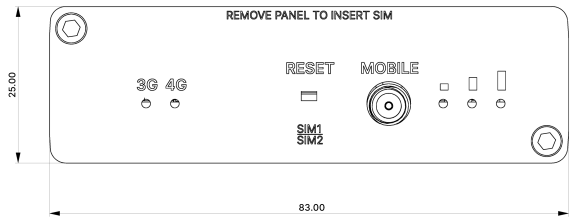
The figure below depicts the measurements of device and its components as seen from the front panel side:




Copyright © 2026, UAB TELTONIKA NETWORKS.
Specifications and information provided in this document are subject to change by UAB TELTONIKA NETWORKS without prior notice.

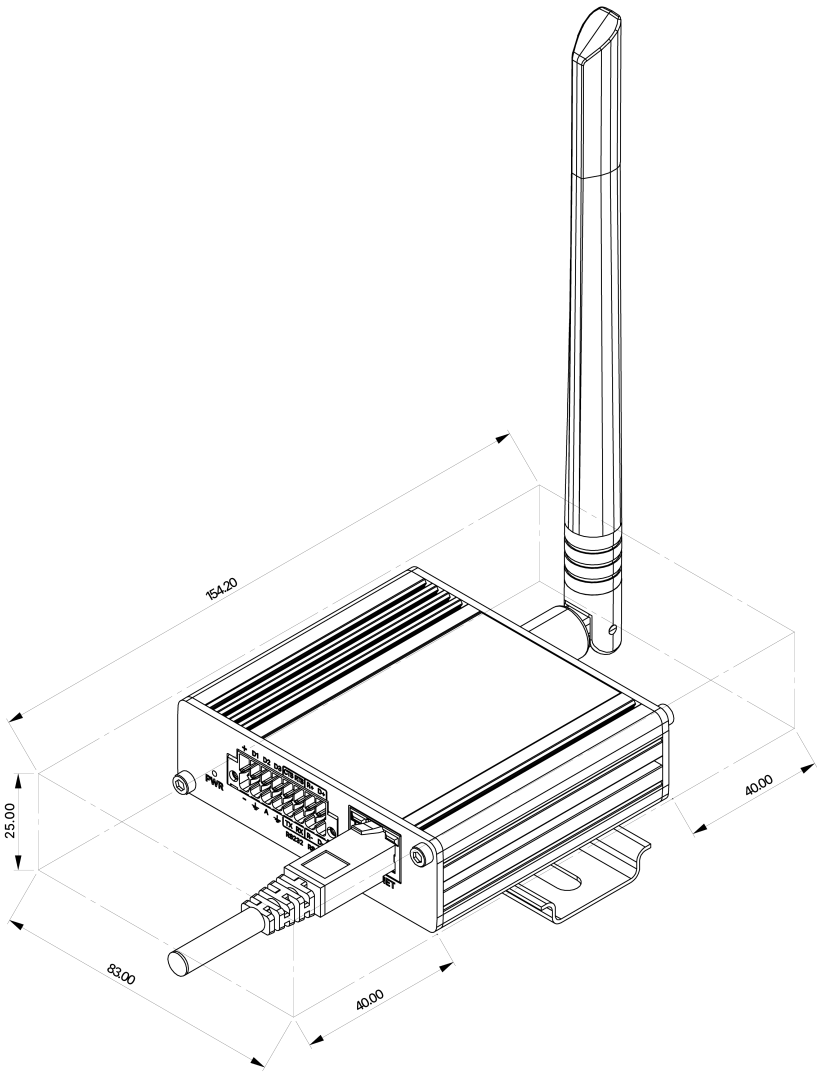
## REAR VIEW

The figure below depicts the measurements of device and its components as seen from the back panel side:

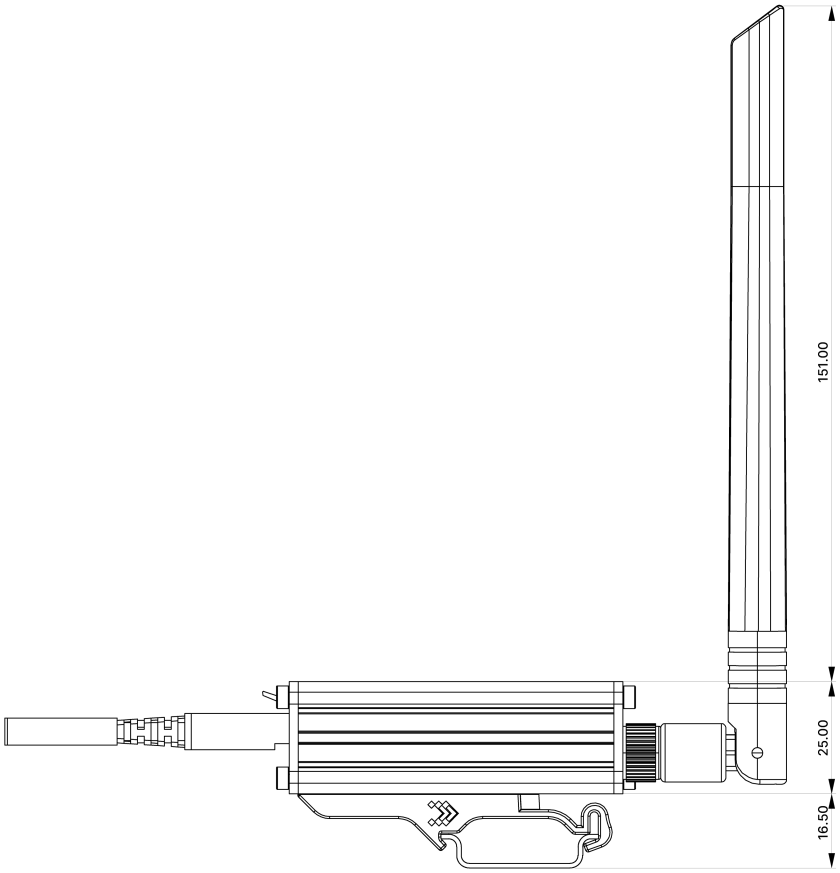



## MOUNTING SPACE REQUIREMENTS

The figure below depicts an approximation of the device's dimensions when cables and antennas are attached:




Copyright © 2026, UAB TELTONIKA NETWORKS.
Specifications and information provided in this document are subject to change by UAB TELTONIKA NETWORKS without prior notice.




Copyright © 2026, UAB TELTONIKA NETWORKS.
Specifications and information provided in this document are subject to change by UAB TELTONIKA NETWORKS without prior notice.

# Millbeck.

IoT Connectivity

## ABOUT

Millbeck is a UK-based IoT and M2M connectivity specialist, supplying the SIM technology, networking hardware and technical expertise that keep connected devices online, wherever they're deployed.

With over 20 years' experience in cellular networking, our team has built deep sector knowledge and strong partnerships with leading carriers and hardware manufacturers across the UK, Europe and globally.

## TIMELINE

**2002 — MILLBECK FOUNDED**
Business connectivity for UK SMEs

**2008 — FIRST IOT SIM SOLUTION PROVIDED**
Cellular SIM solutions commence

**2018 — ROAMING IOT SIMS LAUNCHED**
The next step in IoT connectivity begins

**2024 — TELTONIKA DIAMOND PARTNER**
Millbeck appointed as a key Teltonika partner

**NOW — UK, EUROPE & GLOBAL DEPLOYMENTS**
Connecting devices across every sector

## EXPERTISE

- Routers
- Antennas
- Networking
- IoT SIMs
- IoT Consultancy

## SIM TECHNOLOGIES

- 2G/3G, 4G LTE, 5G, CAT-M1, LTE-M, VoLTE & NB-IoT
- eUICC
- eSIM
- Fixed Public IP
- Fixed Private IP
- IPSec VPN
- SSL VPN

sales@millbeck.co.uk 0113 548 0770 millbeck.co.uk

# Millbeck.




sales@millbeck.co.uk 0113 548 0770 millbeck.co.uk