# TRM282

GLOBAL 4G MODEM




Energy & utilities

Industrial & automation

Retail

Smart city

## GLOBAL LTE

Ensure reliable global connectivity with Telit Cat 4 module

## DUAL INTERFACES

Seamlessly bridge modern and legacy equipment with USB & RS232

## INTEGRATED GNSS & DI/DO

Expand connectivity options with built-in GNSS and digital input/output

## 2 X MOBILE ANTENNAS

Improve signal stability in industrial environments

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| Mobile | |
|---|---|
| Mobile module | 4G (LTE) – LTE Cat 4 150Mbps DL, 50Mbps UL; 3G – 42 Mbps DL, 5.76Mbps UL |
| 3GPP Release | Release 11 |
| **TRM SOFTWARE** | |
| Management Software | Windows Connection Manager, Modem Manager (Linux) |
| USB Serial Driver | Windows 7/8/8.1/10/11, Linux >5.8, Android 11, 12, 13, 14, 15 |
| GNSS Driver | Android 11, 13, 14 |
| RIL Driver | Android 11, 12, 13, 14, 15 |
| ECM Driver | Linux >5.8 |
| QMI_WWAN Driver | Linux >5.8 |
| **Location Tracking** | |
| GNSS | GPS, GLONASS, BeiDou, Galileo and QZSS |
| Coordinates | GNSS coordinates via WebUI, SMS, TAVL, RS232 |
| NMEA | NMEA 0183 |
| Server software | Supported server software TAVL |
| Tracking sensitivity | -160 dBm |
| Position Accuracy | < 2.0m CEP |
| **Power** | |
| Connector | 1 x 4-pin industrial DC power socket<br>1 x USB Type-C (The USB host must provide 5V @ 0.9A to power the device via the USB Type-C port) |
| Input voltage range | 4-pin: 9 - 30 VDC, overvoltage protection, reverse polarity protection, surge protection >51 VDC 10us max<br>USB Type-C: 5 VDC |
| Power consumption | Idle: < 0.4 W, Max: < 4 W |
| **Physical Interfaces** | |
| Status LEDs | 1 x Power LED,  1 x Status LED |
| SIM | 1 x SIM slot (Mini SIM - 2FF, internal SIM holder), 1.8 V/3 V |
| Power | 1 x 4-pin power connector<br>1 x USB Type-C (The USB host must provide 5V @ 3A to power the device via the USB Type-C port) |
| Antennas | 2 x SMA for Mobile, 1 x SMA for GNSS |
| RS232 | 1 x DB9 connector (for data communication and modem control using AT commands) |
| USB | 1 x Virtual network interface via USB Type-C (for power and modem control, data communication) |

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**Physical Specification**

| | |
|---|---|
| Casing material | Anodised aluminium housing and panels |
| Dimensions (W x H x D) | 83 x 25 x 85.8 mm |
| Weight | 171 g |
| Mounting options | DIN rail, wall mount, flat surface (all require additional kit) |

**Operating Environment**

| | |
|---|---|
| Operating temperature | -40 °C to 65 °C |
| Operating humidity | 10% to 90% non-condensing |
| Ingress Protection Rating | IP30 |

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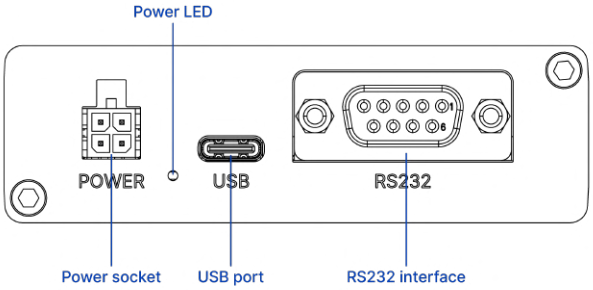
## Certification

| | |
|---|---|
| EMEA | TRM282 CE<br>TRM282 UKCA<br>TRM282 RoHS<br>TRM282 REACH |
| MISCELLANEOUS | TRM282 CB Scheme |
| SAFETY & ENVIROINMENTAL | TRM282 WEEE |

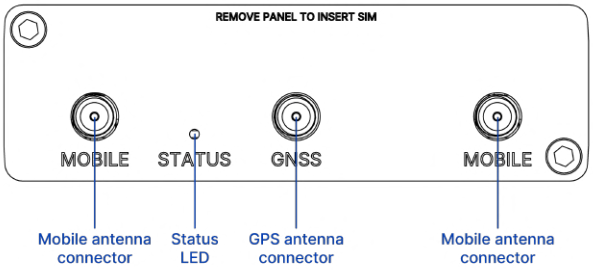
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# Hardware

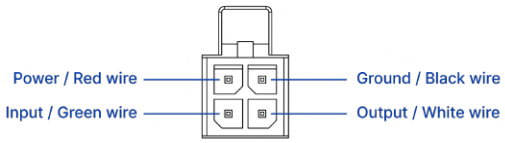
### FRONT VIEW




### BACK VIEW




### POWER SOCKET PINOUT




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## Ordering

**Standard package***




TRM282



QUICK START GUIDE



2 X MOBILE SMA ANTENNAS



HEX KEY



SIM ADAPTER KIT



USB TYPE-C CABLE

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

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

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## 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 |
|---|---|---|
| TRM282 **A*****<br>Global[1] | **4G:** B1, B2, B3, B4, B5, B7, B8, B8_US, B9, B12, B13, B14, B18, B19, B20, B25, B26, B28<br>**3G:** B1, B2, B4, B5, B6, B8, B19<br>**2G:** B2, B3, B5, B8 | TRM282AAAAA0 / Standard package without PSU<br>TRM282AAADA0 / 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

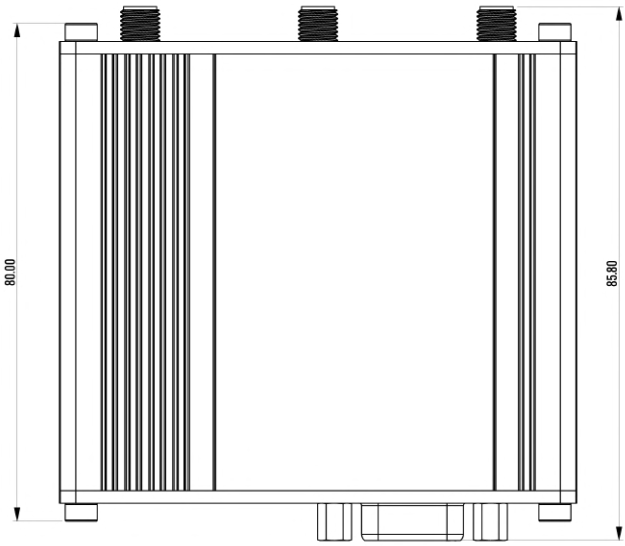
## TRM282 spatial measurements

| Available versions | |
|---|---|
| Device housing (W x H x D) | 83 x 25 x 85.8 mm |
| Box: | 156 x 68 x 144 mm |

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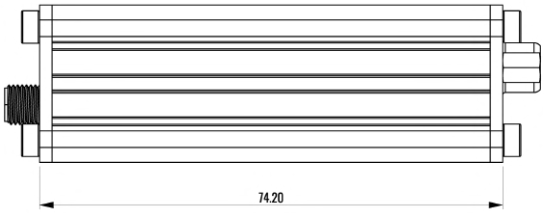
### TOP VIEW

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



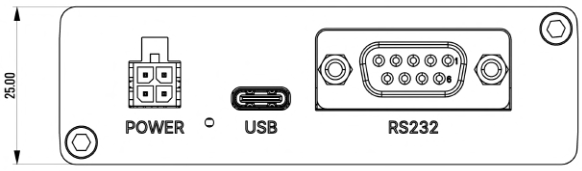

### LEFT VIEW

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




### FRONT VIEW

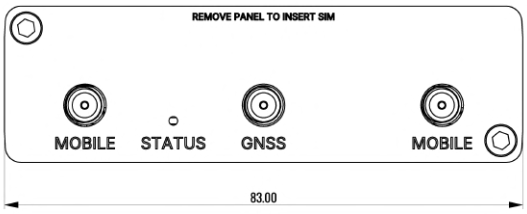
The figure below depicts the measurements of device and its components as seen from the front panel side:




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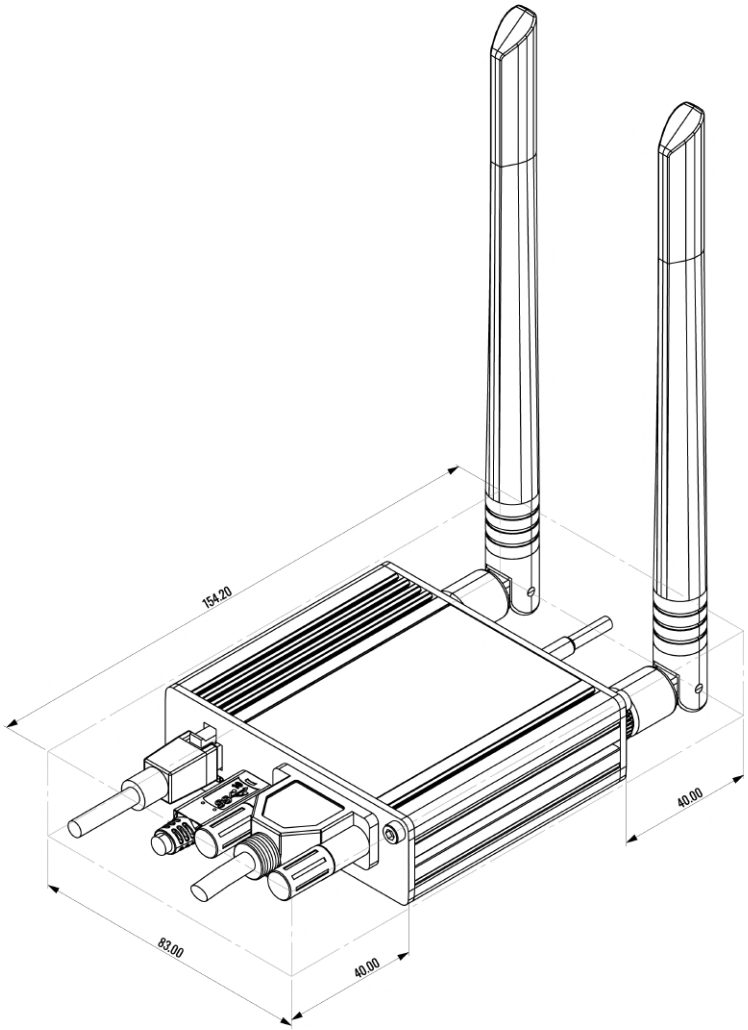
## REAR VIEW

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




## MOUNTING SPACE REQUIREMENTS

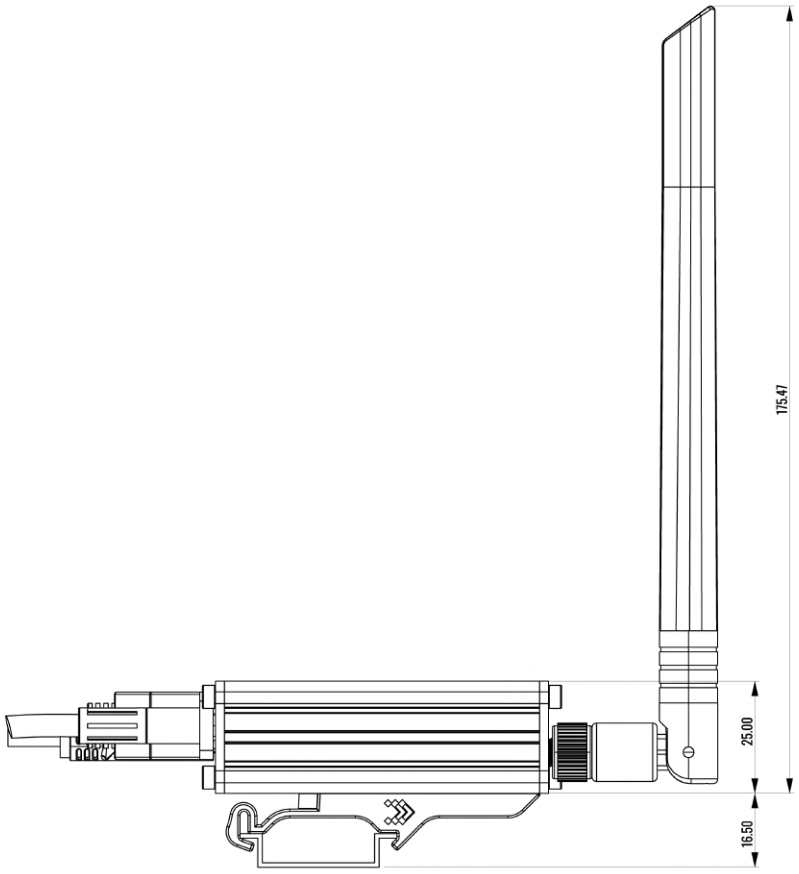
The figure below depicts an approximation of the device's dimensions when cables and antennas are attached:




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## DIN RAIL

The scheme below depicts protrusion measurements of an attached DIN Rail:




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