TELTONIKA | Networks

TRM500

HARDWARE

FRONT VIEW

MOBILE　　　PWR　　　USB　　　MOBILE

Mobile antenna connector

Power socket

USB port

Mobile antenna connector

BACK VIEW

REMOVE PANEL TO INSERT SIM

MOBILE　PWR　　　　5G　NET　MOBILE

Mobile antenna connector

5G status LED

Mobile antenna connector

Power LED

Network status LED

POWER SOCKET PINOUT

Power / Red wire — Ground / Black wire

Not connected — Not connected
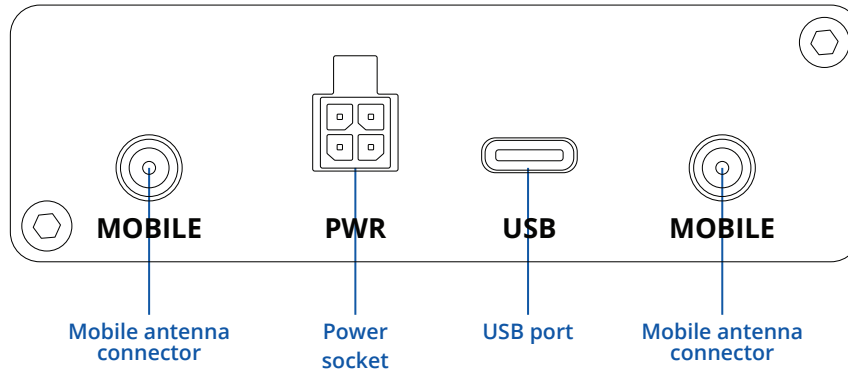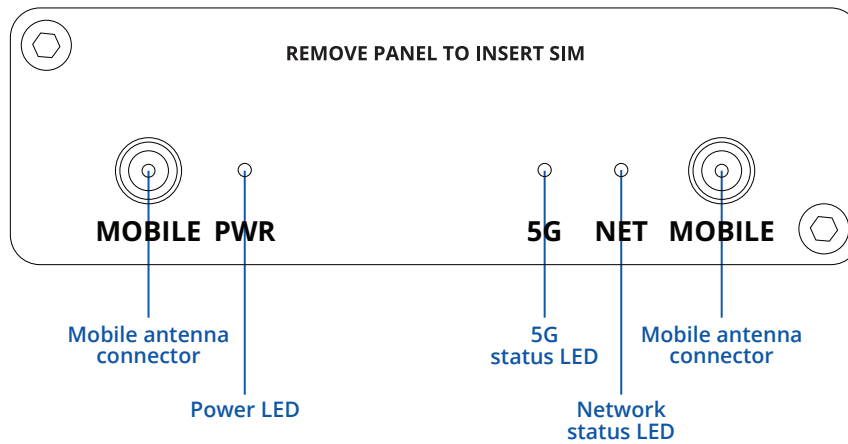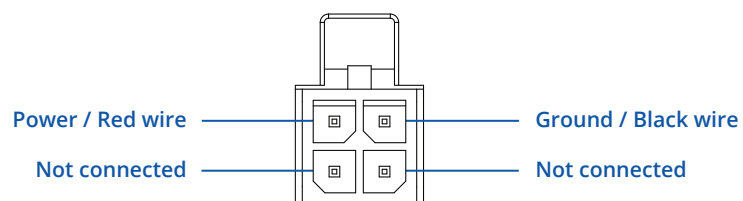
FEATURES

MOBILE

Mobile module	5G Sub-6GHz SA: 2.4Gbps (DL)/900Mbps (UL); 5G NSA Sub-6GHz: 3.4Gbps DL (4x4 MIMO)/ 550 Mbps UL (2x2); 4G (LTE-FDD) – LTE Cat 19 1.6Gbps DL, 200Mbps UL; 3G – 42 Mbps DL, 5.76Mbps UL
3GPP Release	Release 16

POWER

Connector	1 x 4-pin industrial DC power socket 1 x USB Type-C (The USB host must provide 5V @ 3A 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 >35 VDC 10us max USB Type-C: 5 VDC
Power consumption	Idle: < 5 W, Max: < 12 W

PHYSICAL INTERFACES

Status LEDs	1 x Power LED, 1 x 5G LED, 1 x Network LED
SIM	1 x SIM slot (Mini SIM – 2FF), 1.8 V/3 V
Power	1 x 4-pin power connector 1 x USB Type-C (The USB host must provide 5V @ 3A to power the device via the USB Type-C port)
Antennas	4 x SMA for Mobile
Reset	Reboot/User default reset/Factory reset button
Other	1 x Virtual network interface via USB Type-C (For power and network data)

PHYSICAL SPECIFICATION

Casing material	Anodized aluminum housing and panels
Dimensions (W x H x D)	83 x 25 x 85.4 mm
Weight	94.5 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

TRM SOFTWARE

Management Software	Windows Connection Manager, Modem Manager (Linux)
USB Serial Driver	Windows 7/8/8.1/10/11, Linux 2.6~6.3, Android 4.x ~ 13
GNSS Driver	Android 4.x ~ 13
RIL Driver	Android 4.x ~ 13
NDIS Driver	Windows 7/8/8.1/10/11
MBIM Driver	Windows 8/8.1/10/11, Linux 3.18~6.3
Gobinet Driver	Linux 2.6/3.x/4.1~4.14
QMI_WWAN Driver	Linux 3.4~6.3

REGULATORY & TYPE APPROVALS

Regulatory	WEE

EMC EMISSIONS & IMMUNITY

Standards	EN 55032:2015+A1:2020 EN 55035:2017+A11:2020 EN 61000-3-3:2013+A1:2019+A2:2021 EN IEC 61000-3-2:2019+A1:2021 EN 301 489-1 V2.2.3 EN 301 489-52 V1.2.1 AS/NZS CISPR 32:2015+A1:2020
ESD	EN 61000-4-2:2009
Radiated Immunity	EN IEC 61000-4-3:2020
EFT	EN 61000-4-4:2012
Surge Immunity (AC Mains Power Port)	EN 61000-4-5:2014+A1:2017
CS	EN 61000-4-6:2014
DIP	EN 61000-4-11:2020

RF

Standards	EN 301 908-1 V15.2.1 EN 301 908-2 V13.1.1 EN 301 908-13 V13.2.1 EN 301 908-25 V15.1.1 AS/CA S042.1:2022 AS/CA S042.4:2022 AS/CA S042.5:2022+A1:2022 FCC Part 22

SAFETY

Standards	EN IEC 62311:2020 EN IEC 62368-1:2018

STANDARD PACKAGE*

- TRM500
- 9 W PSU
- 4 x 5G Mobile antenna (swivel, SMA male)
- 1 x hex key
- SIM Adapter kit
- QSG (Quick Start Guide)
- USB Type-C cable (0.8 m)
- Packaging box

TRM500

9 W PSU

4 X 5G MOBILE ANTENNA (SWIVEL, SMA MALE)

1 X HEX KEY

SIM ADAPTER KIT

QSG
(QUICK START GUIDE)

USB TYPE-C
CABLE (0.8 M)

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

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
TRM500 0***** EMEA[1], APAC[2], Brazil	**5G NR(SA/NSA):** n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n71/n75/n76/n77/n78 **4G (LTE-FDD): FDD:** B1/B3/B5/B7/B8/B20/B28/B32/B71 **4G (LTE-TDD):** B38/B40/B41/B42/B43 **3G:** B1/B5/B8	TRM500000000 / Standard package with EU PSU

1 - Regional availability - excluding Russia & Belarus
2 - Excluding China/Japan
The price and lead-times for region (operator) specific versions may vary. For more information please contact us.

# TRM500 SPATIAL MEASUREMENTS

MAIN MEASUREMENTS

W x H x D dimensions for TRM500:

Device housing*:	83 x 25 x 85.4 mm
Box:	355 x 60 x 175 mm

*Housing measurements are presented without antenna connectors and screws; for measurements of other device elements look to the sections below.
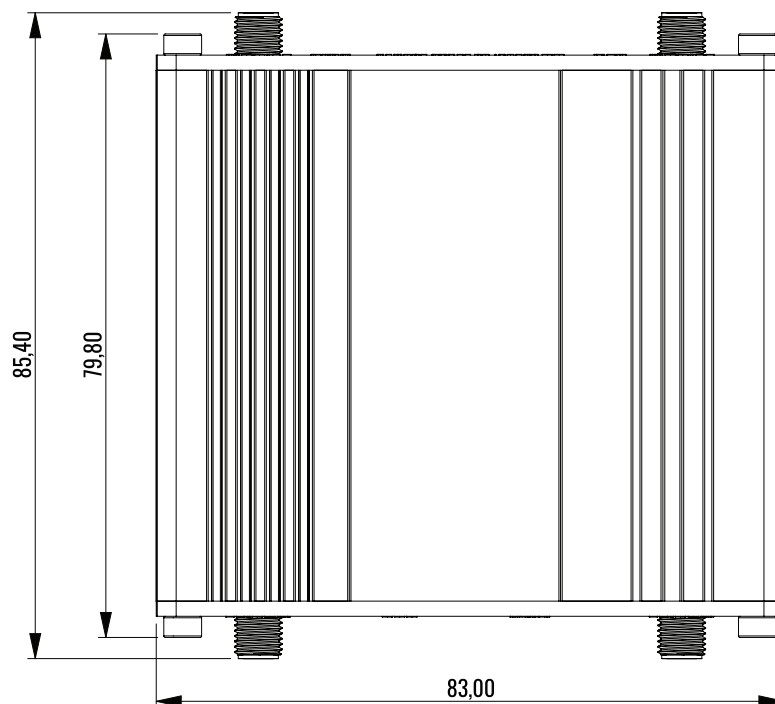
TOP VIEW

The figure below depicts the measurements of TRM500 and its components as seen from the top:
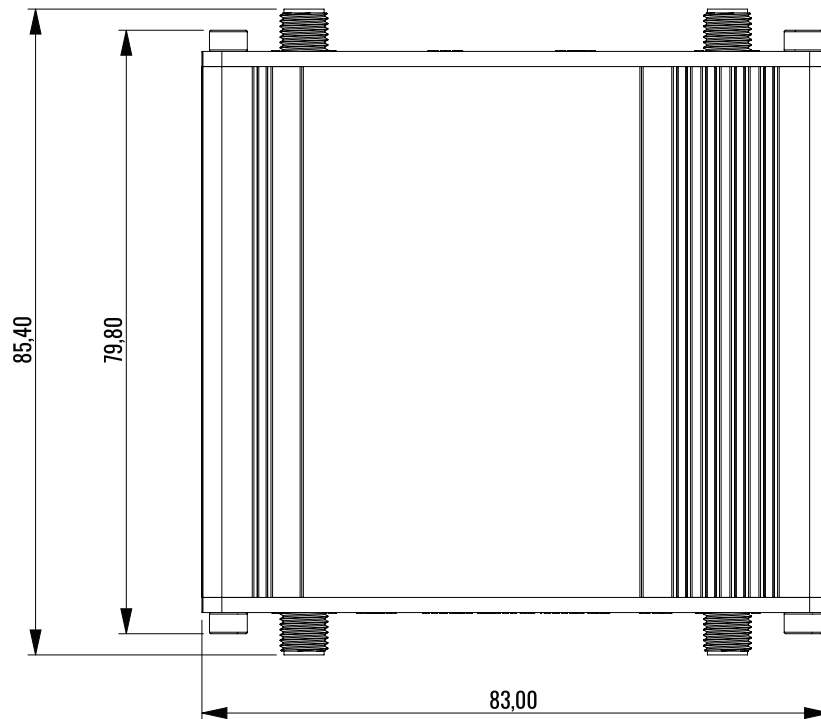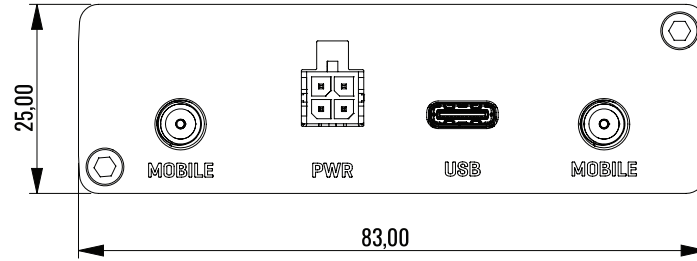

BOTTOM VIEW

The figure below depicts the measurements of TRM500 and its components as seen from the bottom:
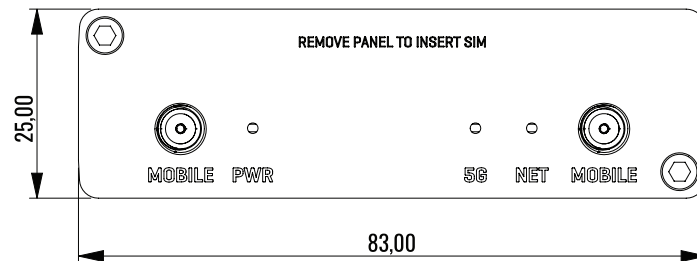
FRONT VIEW

The figure below depicts the measurements of TRM500 and its components as seen from the front panel side:
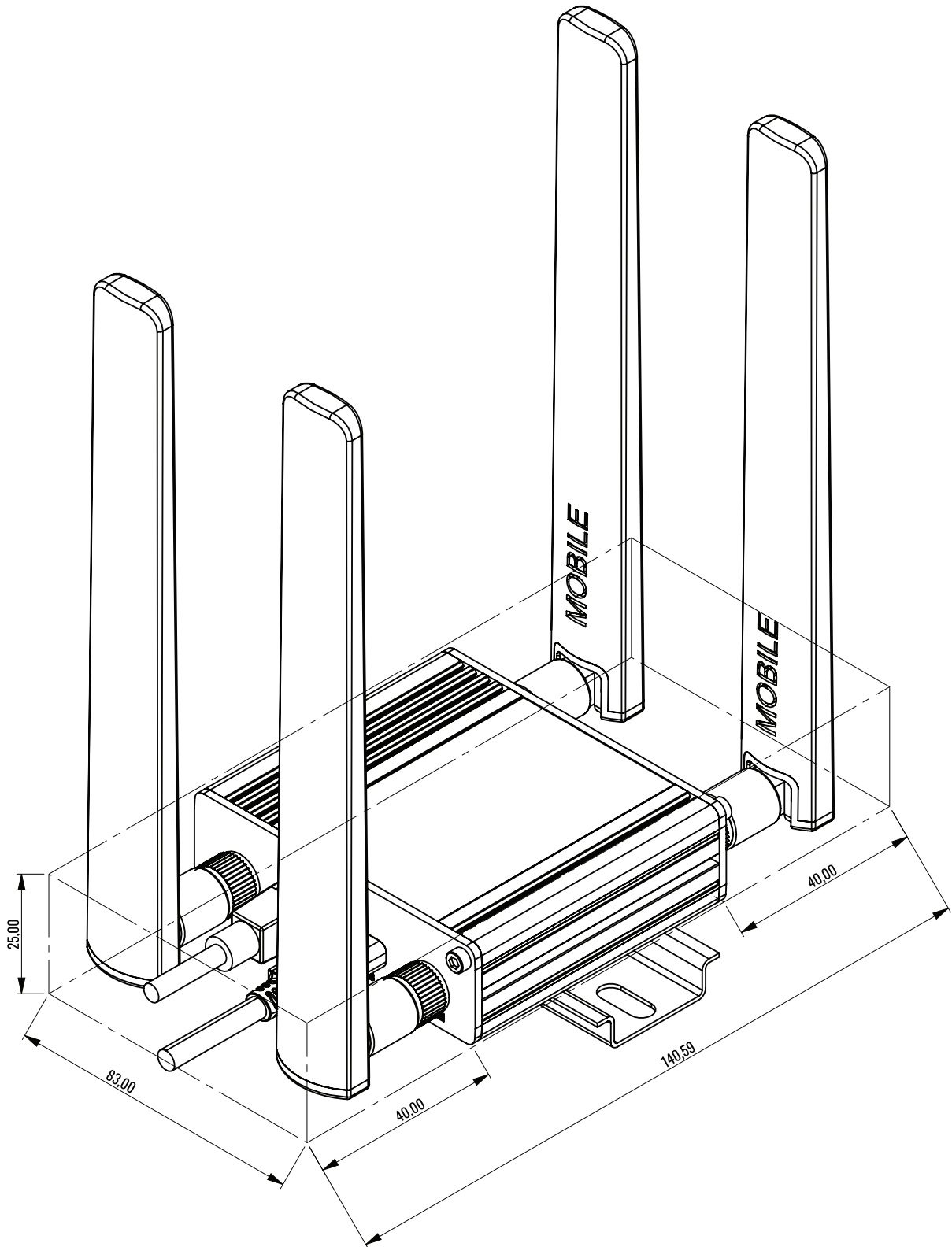

REAR VIEW

The figure below depicts the measurements of TRM500 and its components as seen from the rearpanel side:

MOUNTING SPACE REQUIREMENTS

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

DIN RAIL

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

175,18

25,00

17,00