



TRM142

TRM142 industrial 4G modem



Energy &
utilities



Enterprise



Industrial &
automation



Retail



Smart city

LEGACY-READY

Reliable 4G connectivity for devices with serial interfaces

MODERN & STABLE LTE

LTE Cat 4

COST-EFFECTIVE UPGRADE

Retrofit legacy RS232 devices with LTE at scale

FLEXIBLE INTEGRATION

Connect endpoints via RS232 or USB for effortless compatibility

Mobile

Mobile module	4G LTE FDD up to 150 DL/50 UL Mbps, 4G LTE TDD up to 130 DL/30 UL Mbps, 3G HSPA+ up to 21 DL Mbps, 3G HSUPA up to 5.76 UL Mbps, 3G WCDMA up to 384 DL/384 UL kbps, 2G up to 236.8 DL/236.8 UL kbps, 2G GPRS up to 85.6 DL/85.6 UL kbps
3GPP Release	Release 9

Power

Connector	1 x 4-pin industrial DC power socket
Input voltage range	9 - 30 VDC, 4-pin: overvoltage protection, reverse polarity protection, surge protection
Power consumption	Idle: < 1 W, Max: < 5 W

Physical Interfaces

Status LEDs	1 x Power LED, 1 x Network LED, 1 x Mobile LED
SIM	1 x SIM slot (Mini SIM – 2FF)
Power	1 x 4-pin power connector
Antennas	1 x SMA for Mobile
USB	1 x Virtual network interface via micro USB
RS232	1 x DB9 connector, RS232 (with RTS, CTS flow control)
Reset	Reboot/User default reset/Factory reset button

Physical Specification

Casing material	Anodized aluminium housing and panels
Dimensions (W x H x D)	75.9 x 25 x 74.5 mm
Weight	135 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

Network

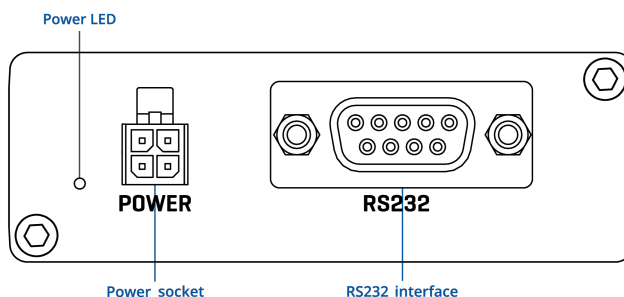
Management Software	Windows Connection Manager, Modem Manager (Linux)
USB Serial Driver	Windows 7/8/8.1/10/11, Linux 2.6~6.3, Android 4.x ~ 13
GNSS Driver	Android 4.x ~ 13
RIL Driver	Android 4.x ~ 13
NDIS Driver	Windows 7/8/8.1/10

Regulatory & Type Approvals

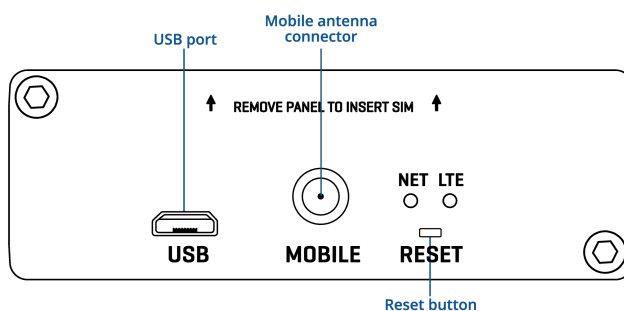
Regulatory	CE, UKCA, CB, RCM, EAC, UCRF, WEEE
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Hardware

FRONT VIEW

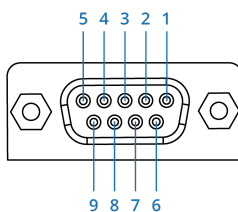


BACK VIEW

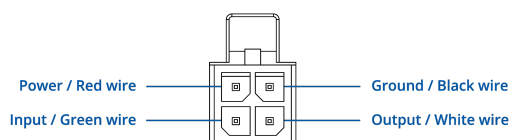


RS232 CONNECTOR PINOUT

1. Data carrier detect (DCD)
2. Receive data (RXD)
3. Transmit data (TXD)
4. Data terminal ready (DTR)
5. Signal ground (GND)
6. Data set ready (DSR)
7. Ready to send (RTS)
8. Clear to send (CTS)
9. Ring indicator (RI)



POWER SOCKET PINOUT



Ordering

Standard package*



TRM142



QUICK START GUIDE



9W PSU

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

For more information on all available packaging options – please [contact us](#) directly.

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
TRM142 0***** Australia, Europe ¹ , APAC	4G (LTE-FDD): B1, B3, B5, B7, B8, B20, B28 4G (LTE-TDD): B38, B40, B41 3G: B1, B5, B8 2G: B3, B8	TRM142000000 / Standard package with EU PSU TRM142000200 / Standard package with UK PSU TRM142000300 / Standard package with AU PSU TRM142000400 / 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

TRM142 spatial measurements

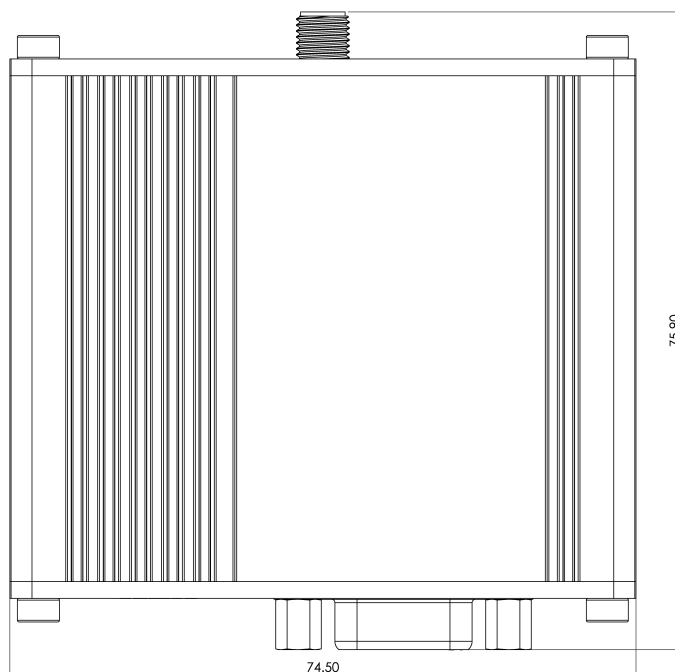
Available versions

Box (W x H x D):	173 x 71 x 148 mm
Device housing (W x H x D)*	74.5 x 25 x 64.2 mm

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

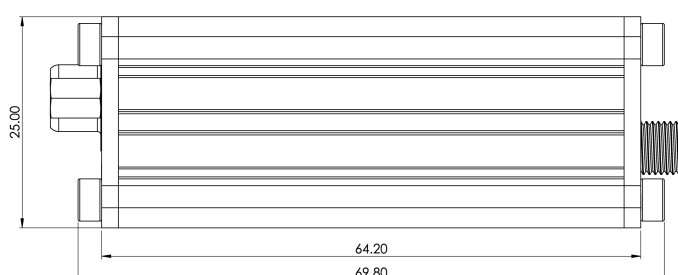
TOP VIEW

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



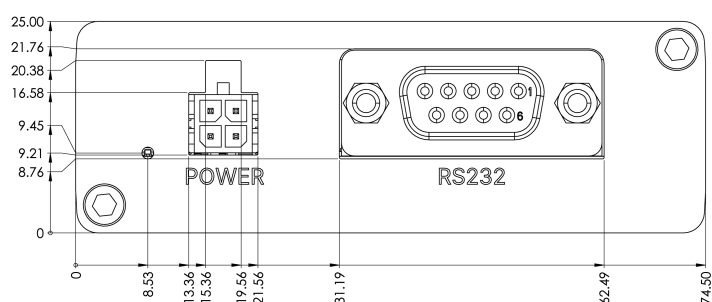
RIGHT VIEW

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



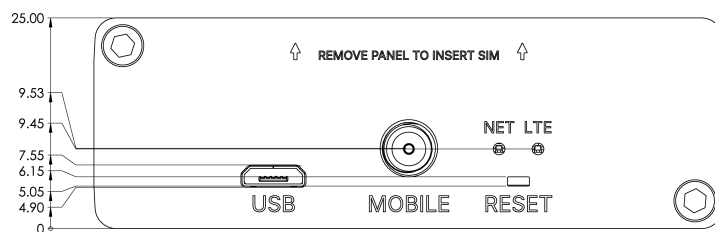
FRONT VIEW

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



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:

