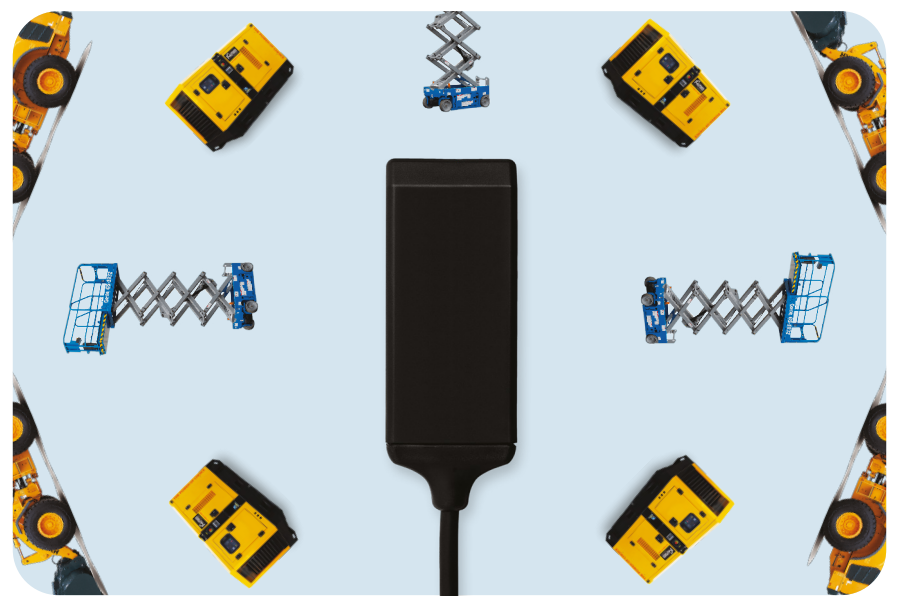


# Find the **accessories** you're looking for.



## Raw Shield Mount

Made to protect Raw in harsh environments, adding an extra layer of protection.



# Trackunit **Raw** Installation Guide



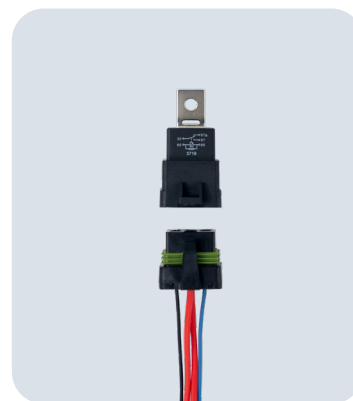
## RFID Card Reader

USB RFID card reader is a easy tool to activate DualID RFID card access for operators.



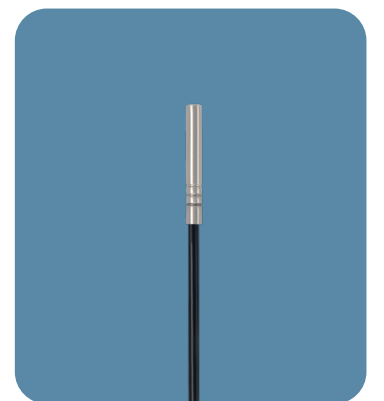
## DualID Cards

The DualID RFID card is an easy way to control access to your equipment.



## Splash Proof Relay

Used when required, to interface Trackunit Raw to specific machine wiring signals or controls.



## Temperature Sensor

Connect to Raw to measure temperature conditions in your environment.



## Ferrite

Designed and certified for use in Japan with TU-501 and TU600-x models.



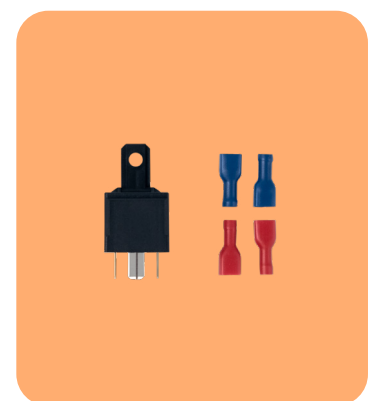
## Power Cable

Versatile solutions to connect Trackunit Raw to any type of machine.



## DualID II Bracket

Made to protect DualID II in harsh environments, adding an extra layer of protection.



## Standard Relays

Used when required, to interface Trackunit Raw to specific machine wiring signals or controls.

**Help** is here. Whenever and however you need it.



## Help Center

Installation, activation, and onboarding info can be found at [helpcenter.trackunit.com](https://helpcenter.trackunit.com)



## Customer Success

Please reach out to our experienced support team at [support@trackunit.com](mailto:support@trackunit.com)

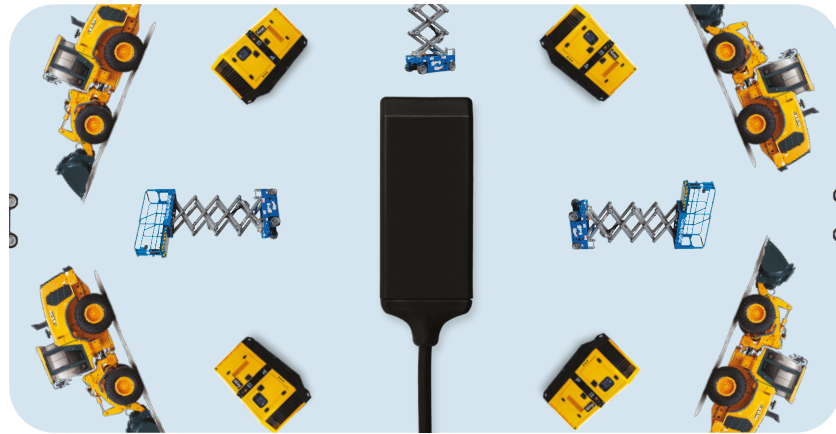


## Order

Already know what you need? Place your order at [trackunit.com](https://trackunit.com)

Trackunit Raw

# The Enabler of Full Fleet Connectivity



## Seamless Deployment

eSim supports global roaming options and enables seamless deployment.



## Easy to Install

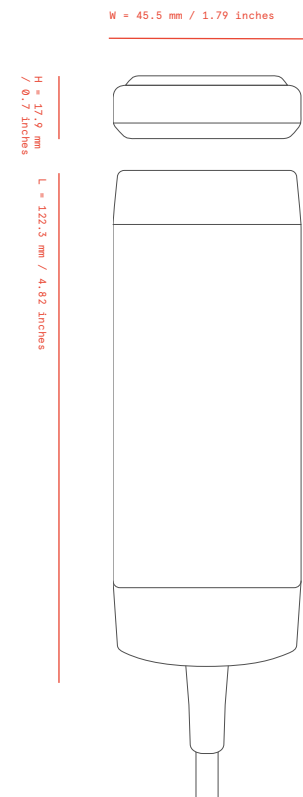
End-to-end installation validation via Trackunit Verify.



## Low Volt Connectivity

Power voltage range includes 48V machines.

## Product Diagram



## Overview

Trackunit Raw is a telematics device providing stable, secure and reliable connectivity.

## Product Dimensions

- Length: 122 mm (0.69")
- Width: 45.7 mm (1.79")
- Height: 17.7 mm (4.80")
- Weight: 65 g (2.29 oz.) (excl. cable)

## Tech Specs

- Network: LTE-M, NB-IoT w/ 2G GSM
- Approvals: FCC, CE, PTCRB, Bluetooth SIG
- GPS: GPS, GLONASS, BeiDou, Galileo, QZSS
- Supply Voltage: 12 - 48 VDC
- Max. Voltage Range: 8 - 58 VDC
- Backup Battery: Min. 720 mAh Li-ion
- Temperature Range: -30C to +60C/-22F to +140F
- Environmental Class: IP67
- CAN Support: J1939 / CAN Open
- Bluetooth 5.0 BLE

## Included

- Trackunit Raw
- Mounting Bracket
- Selected Wiring Harness
- Fuseholder (only for free wire versions) / 1A Fuse
- Installation & Safety Guides

## Compatible With



Raw Shield Mount



Power Cable



Temperature Sensor

Pre-installation

# Before You Install



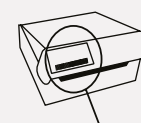
## Read Safety Guide

Read the Trackunit Raw Safety Guide before installing.



## Mounting Location

Mount Trackunit Raw with the serial number facing outwards, so you do not obstruct the LED Indicator.



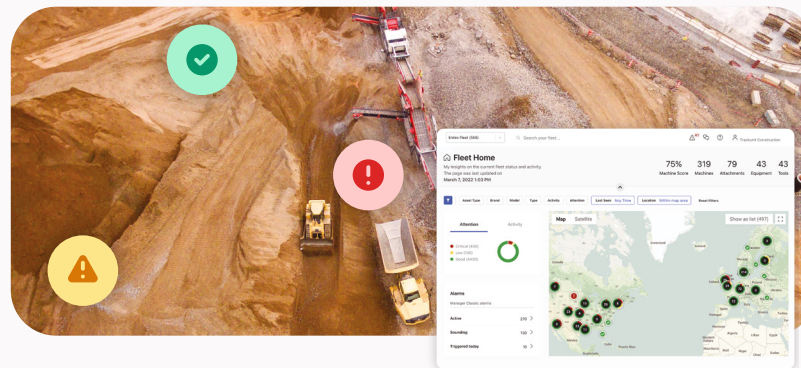
## Serial Number Location

Trackunit Raw's Serial Number and mobile number is located on the box's front.

**Note:** The label can be peeled off and saved for later use.



Trackunit Raw is your direct link to Trackunit Manager. Trackunit Manager empowers fleet managers to boost efficiency, safety, and machine up-time. Get a complete view of everything you need – from high-level summaries to specific machine details.



# Help is here, whenever you need it.



## Help Center

Installation, activation, and onboarding info can be found at [helpcenter.trackunit.com](https://helpcenter.trackunit.com)



## Customer Success

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Installation

# Installation Guide

## Wiring Diagram with Access Control

Wire color	Description	Wire color	Description
Power	Connect to Machine battery through a fuse (Mandatory) <sup>1</sup>	Digital Input 2	Connect to the ignition signal (Mandatory for vehicles and machines) <sup>2/3</sup>
Ground	Connect to the Machine's ground (Mandatory)	Digital Input 3	Optional Input. <sup>2/3</sup>
CANbus High	Connect to the Machine's CANbus High (Mandatory if accessible)	Digital Input 4	Can be used for INFILT function. Optional input <sup>2/3</sup>
CANbus Low	Connect to the Machine's CANbus Low (Mandatory if accessible)	Digital Output 1	Can be used to control a relay <sup>4/5</sup>
Digital Input 1	Connect to the Hour Counter (Mandatory) <sup>2/3</sup>	1 - Wire Input	M8 connector for access control and temperature sensor

<sup>1</sup> Supply voltage range 12 - 48 V

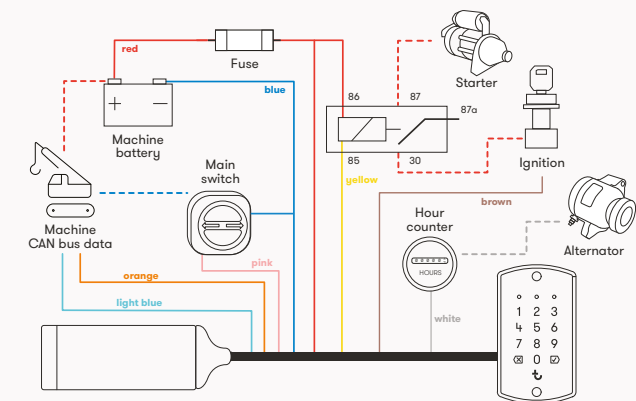
<sup>2</sup> Max. Voltage: 48V

<sup>5</sup> Do NOT use this output to

<sup>2</sup> Active/high when min. 5V DC at Input

<sup>4</sup> Max. load 200 mA

switch off vehicles and machines during operation or driving



example of installation

## Functionality Check

Status	LED mode	LED color	Status indication
✓	Red flashing light and constant green light in LED	• • • • • —	- Mobile network is OK - GPS has satellite position
✗	No light in LED		- No power supply
✗	Constant red light and no green light in LED	—	- No mobile network - GPS HAS no satellite position
✗	Red flashing light and no green light in LED	• • • • •	- Mobile network is ok - GPS has no satellite position
✗	Constant red light and green light in LED	— —	- No mobile network - GPS has satellite position
✗	Red & green LED fast changing flashes	• • • • • • • • • •	- Unit is in pre installation mode - No power supply



## Installation Check and Update

Please visit [install.trackunit.com](https://install.trackunit.com) to register and verify your unit. Before verification, install and activate the Trackunit Raw in an area with strong GPS and mobile coverage.