



Fueling your fleet
with intelligence.

VL501

Plug and
Play Tracker

INSTALL GUIDE

01. Introduction

Features

- Driving Behavior Analysis (Harsh Acceleration, Hard Braking, Sharp Cornering, and Collision)
- Multi-GNSS
- Alerts (Speed, Entering or Leaving Geofences, and Device Plug-in and Unplug)
- Reupload of Location Data
- Panic Button for Emergencies
- Fast Charging

Operating Environment

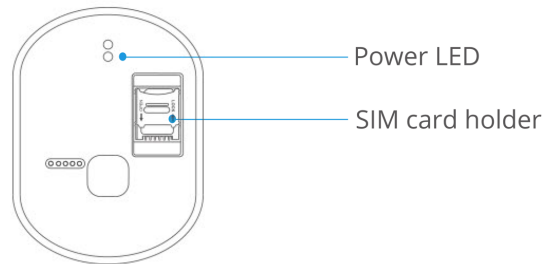
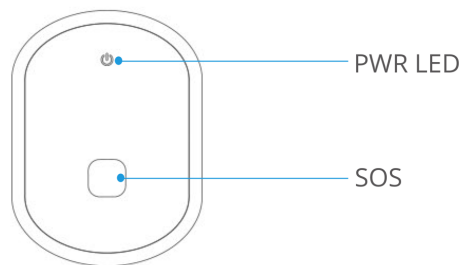
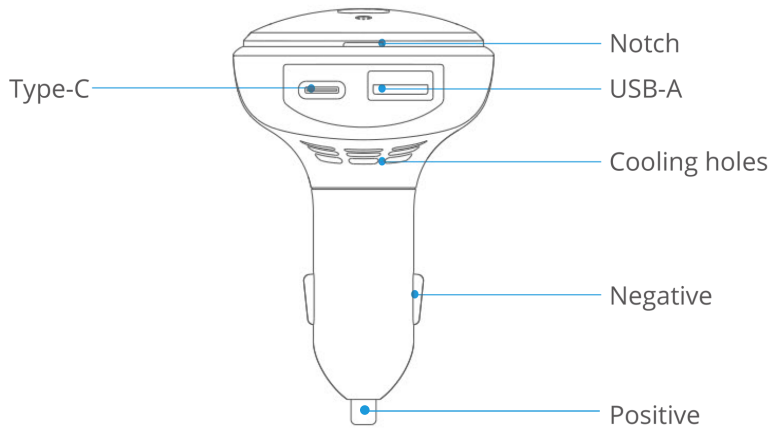
Operating voltage	9-36V DC
Weight	60g
Dimensions	70.0mmx52.0mmx82.5mm
Internal backup battery	50mAH/3.7V LiCoO2 battery
Operating temperature	-20°C to 70°C
Storage temperature	-40°C to 85°C
Operating humidity	5%–95% (non-condensing)
Positioning accuracy	<2.5m CEP (Open Sky)
Location modes	GPS/GLONASS/BDS/AGPS/QZSS
Sensitivity	Cold start≤30sec Hot start≤1sec
Operating current	Typical≤15mA @ 12V (deep sleep) Typical≤120mA @ 12V (active tracking)

Frequency Bands

VL501(N)	LTE-FDD CAT-1: B2/B4/B5/B12/B13
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02. Overview

Appearance



LED Indication

Red	Meaning
Solid on	The power is connected and the device can work properly.
Off	No power is connected or the device is faulty.

03. Installation

SIM Card Attachment

Step 1 Prepare a Nano-SIM.



Nano



Standard

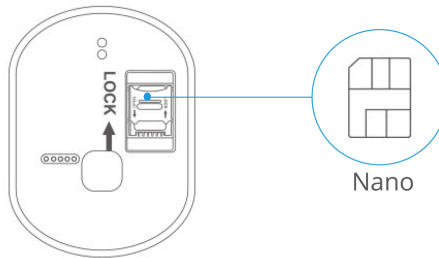


Micro



Step 2 Attach the SIM.

- Remove the cover using the notch and insert the SIM by the figure.
- Place the SIM in by the figure. Slide up the card holder to lock the SIM.



Note:

- ① After the SIM is in place, the device will power on using its backup battery. If the backup battery is too low, the power-on will fail. In this case, it is recommended to plug the device into the cigar lighter of your vehicle.
- ② The SIM card must be inserted correctly, have GPRS services activated, and not be in arrears. If the SIM is identified and requires a PIN, please disable the PIN request.

Device Installation

Find the 12V socket of your vehicle and insert the VL501 into the port. The positions of 12V sockets may differ. It is recommended to visit the official website of your make to find out where the 12V port of your vehicle is.

Note:

Do not shake or rotate the VL501 at will, as it may falsely trigger reckless driving behavior and other alerts.

FCC warning:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.