



VL141

4G Cat 1 Vehicle Tracker

The VL141 is a low-cost 4G Cat 1 vehicle tracker with a wide 9-90V voltage range suitable for almost all vehicles like passenger cars, motorcycles, and electric cars. With the TTL interface (RS485 optional), the device allows communications with BMS or VCU, and the advanced GPS antenna provides strong signal acquisition and more accurate positioning capability. The VL141 also comes with an easy-hidden design, live tracking, remote cut-off, and a suite of event-triggered alerts, all of which contribute to its value as a fleet management tool.



GPS & BDS Positioning

A synergy of multiple positioning systems ensures the location to be accurately displayed on the cloud platform.



Driving Behavior Analysis

Receive alerts when any of 4 kinds of dangerous driving behavior is detected.



Low Voltage Alert

You'll be alerted when the external power voltage is lower than the threshold.



Remote Cut-Off (Fuel/Power)

Immobilize a vehicle by cutting off its power source/fuel supply through an installed relay.



IP66 Dust & Water Resistance

Rugged design ensures continued optimal performance, even in the toughest conditions.



9-90V Operating Voltage

Compatible with a wide range of input voltage, able to work on almost all vehicles.



Multiple Alerts

Instant alerts of typical events such as abnormal vibration, low battery, speeding, device removal, etc.



Compact Size

Ideal for the installation in a small space to maximize unnoticeability.

Auto Insurance



Stolen Vehicle Recovery



Fleet Management



GNSS

Positioning system	GPS+BDS
Positioning accuracy	< 2,5m CEP
Tracking sensitivity	-165dBm
Acquisition sensitivity	-148dBm
TTF (open sky)	Avg. hot start ≤ 1sec Avg. cold start ≤ 32sec

Cellular

Communication network	LTE Cat 1
Frequency	LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/B41

Power

Battery	60mAh/3.7V industrial-grade Li-Polymer battery
Input voltage	9-90VDC

Interface

LED indication	GNSS (Blue), Cellular (Green), Power (Red)
SIM	Nano-SIM
Data storage	64+128Mb

Physical specification

Dimensions	80,0 x 31,0 x 17,0mm
Weight	31g

Operating environment

Operating temperature	-20 C to +70 C
IP rating	IP66

Feature

Sensors	Accelerometer
Scenarios	Power supply disconnection alert, Tamper alert, Low voltage alert, Low battery alert, Geo-fence entry/exit alert, Speeding alert, Vibrating alert