



# VL505

LTE OBDII GNSS Tracker

The VL505 is an ultra-compact plug-and-play 4G OBD tracking unit designed for use in both private cars and commercial fleets. Its 4G connectivity ensures real-time data transmission; while the multi-source positioning (GPS, BDS, and LBS) provides accurate location tracking. Operating over a wide voltage range (DC 9–36V), it easily adapts to different makes and models. In addition, the VL505 offers an array of valuable alerts including geofencing, unexpected vibration, speeding, and power failure, ensuring 24/7 protection for your fleet vehicles and cargo as long as it remains connected. It is a proper choice if you want to increase efficiency, reduce costs, and enhance security.



Fleet Management



Individual Vehicle Management



Usage-Based Insurance (UBI)



### Plug and Play

Effortless installation through the vehicle's OBD II port, ensuring reliable power supply and operation.



### Ultra-Compact Design

The unit is only 1.7cm in height when being inserted into the OBD port, making it hard to notice.



### 4G LTE Connectivity

Enable real-time monitoring of the vehicle being tracked.



### Multi-source Positioning

A synergy of multiple positioning systems (GPS, BDS, AGPS, and LBS) ensures that locations are accurately displayed on the cloud platform.



### Driving Behavior Analysis (Basic)

Receive alerts when any of 4 kinds of dangerous driving behavior (harsh acceleration, harsh braking, harsh cornering, collision) is detected.



### Remote Recording

Inconspicuous mic allows for remote recording of ambient sounds around the device.



### 9-36V Operating Voltage

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



### Multiple Alerts

Instant alerts for atypical events such as speeding, unexpected vibration, power supply disconnection, geo-fence entry/exit, etc.

## Standard Configuration

### Positioning & Location

Technology	GPS, BDS, AGPS, LBS
Accuracy	<2.5m CEP
Tracking sensitivity	-163dBm
Acquisition sensitivity	-158dBm
TTF (open sky)	Avg. hot start < 1sec; Avg. cold start < 28sec

### Cellular

Technology	LTE Cat 1 VL505-NA LTE-FDD: B2/B4/B5/B7/B12/B14/B17/B25/ B26/B66
Frequency	LTE-TDD: B41 VL505-EU LTE-FDD: B1/B3/B7/B8/B20/B28 LTE-TDD: B34/B38/B39/B40/B41

### Power

Battery	50mAh/3.7V
Input voltage	9-36VDC
Power consumption	Standby: 2mA Working: 35mA (one update per 10s)

### Operating environment

Operating temperature	-20°C to 70°C
Operating humidity	5% to 95%, non-condensing
IP rating	N/A

### Interface

LED indication	Power (Red), GNSS (Blue), Cellular (Green)
SIM	Nano-SIM
Digital I/Os	N/A
Analog I/Os	N/A
Voltage detection	N/A
Memory capacity	400 GPS data entries
USB	N/A
Microphone	Onboard
No. of relays	N/A
GNSS antenna	Internal
Bluetooth antenna	N/A
Serial ports	N/A

### Feature

Voice monitoring range	≤5 meters
Sensors	Accelerometer Vibrating alert, Over-Speed, Collision,
Scenarios	Geo-fence entry & exit alert, Power-on, Device pull-out, GPS blind spot alert
Driving behavior analysis (DBA)	Harsh acceleration, Harsh braking, Harsh cornering, Collision
Bluetooth	N/A
Configuration support	SMS, Tracksolid Pro
Certification	FCC, CE

### Physical specification

Dimensions	45.0 x 30.0 x 22.5mm
Weight	26g

## Optional Configuration\*

eSIM	Instead of Nano-SIM
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\*Optional Configuration required to be customized or purchased separately.