



VG502

2G OBDII GNSS Tracker

The VG502 is an easy-to-install OBDII GPS tracker designed for company/official cars, private cars, and usage-based insurance. Featuring the driving behavior analysis (DBA) leveraging the UBI-based algorithm, this device can accurately analyze any of 4 kinds of dangerous driving behavior and support the all-around monitoring of vehicles' real-time status. With on-board diagnostics, multiple positioning systems, bluetooth connectivity, and the suite of event-triggered alerts, the VG502 is an ideal solution for both fleet management and private use.



On Board Diagnostics

Obtain accurate data on vehicles (mileage, fault code, ACC status, fuel consumption, battery voltage, engine speed, etc.)



GPS & BDS Positioning

Two complementary positioning systems ensure that locations are accurately displayed on the cloud platform.



Driving Behavior Analysis

Get instant alerts for 4 or 8 kinds of dangerous driving behavior, depending on your needs.



Multiple Alerts

Instant alerts for atypical events such as car fault, collision, speeding, device pull-out, geo-fence entry/exit, etc.



Effortless Installation

Simply plug this device into the OBDII socket, you don't have to turn to professionals.



BLE4.0 Supported

Configure parameters, upgrade software, and debug through Bluetooth connection.

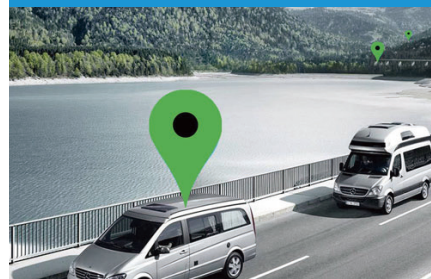
Fleet Management



Usage-based Insurance



Vehicle Tracking



GNSS

Positioning system	GPS/BDS
Frequency	L1
Positioning accuracy	< 2.5m CEP
Tracking sensitivity	-162 dBm
Acquisition sensitivity	-148 dBm (cold) / -156 dBm (hot)
TTFF (open sky)	Avg. hot start ≤ 1sec Avg. cold start ≤ 32sec

Cellular

Communication network	GSM
Frequency	B2/B3/B5/B8

Power

Battery	50mAh/3.7V
Input voltage	9~36VDC

Interface

LED indication	1 status indicator (Blue)
SIM	Nano-SIM
Data storage	4+4MB

OBD port

Connection	OBD II	
Data	K-Line, CAN Bus	
OBD protocols	ISO 9141-2 (5 baud init, 10.4 kbaud)	ISO 14230-4 KWP (5 baud init, 10.4 kbaud)
	ISO 14230-4 KWP (fast init, 10.4 kbaud)	ISO 15765-4 CAN (11 bit ID, 250 kbaud)
	ISO 15765-4 CAN (11 bit ID, 500 kbaud)	ISO 15765-4 CAN (29 bit ID, 250 kbaud)
	ISO 15765-4 CAN (29 bit ID, 500 kbaud)	

Physical specification

Dimensions	61 x 52 x 26mm
Weight	55g

Operating environment

Operating temperature	-20°C to 70°C
Operating humidity	5%~95%, non-condensing

Feature

Sensors	Accelerometer
Bluetooth	Support BLE 4.0 protocol
Ignition detection	External power voltage
Scenarios	Vehicle movement alert, Overspeed alert, Geo-fence, Vehicle battery detection, Power supply disconnection
Driving behavior analysis	Harsh acceleration, Harsh braking, Harsh cornering, Collision