



The VL502 (A) is a new generation of 4G Cat M1 OBDII tracker for corporate cars, usage-based insurance, fleet management, and individual cars, which can obtain vehicle data such as VIN code, engine speed, water temperature, accumulated mileage, etc. With the UBI-based algorithm for driving behavior analysis, the VL502 (A) can accurately analyze any of 4 kinds of dangerous driving behavior and support the all-round monitoring of vehicles' real-time status.





Fleet Management



Usage-based Insurance



Auto Dealers



LTE Cat M1 Network

Stable communication via IoT-specific 4G LTE network.



On-Board Diagnostics

Obtain real data of vehicle (accurate mileage, fault code, ACC status, fuel consumption statistics, battery voltage, engine speed, etc.)



GPS Positioning

Complementary positioning system ensures the locations to be accurately displayed on cloud platform.



Driving Behavior Analysis (Basic)

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



Multiple Alerts

Instant alerts for atypical events such as car fault, overspeed, ignition detection, collision, geo-fence entry/exit, etc.



Effortless Installation

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

Standard Configuration

Positioning & Location

Technology	GPS, GLONASS, AGPS, LBS
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	
Technology	LTE Cat M1 & NB2
_	Cat M1: B2/B4/B5/B12/B13

Cat NB2: B2/B4/B5/B12/B13

OBD Port

Frequency

Connection	OBD II port
Data	K-Line, CAN Bus
	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)
OBD protocols	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)
	SAE J1939 CAN(29 bit ID, 250 kbaud)
	SAE J1939 CAN(29 bit ID, 500 kbaud)

Power

Battery	180mAh/3.7V
Input voltage	9-36VDC
Power consumption	Standby: ≤ 5mA

Interface

LED indication	Red (Power), Blue (GNSS), Green (CATM)
SIM	Nano-SIM
Digital I/Os	N/A
Analog I/Os	N/A
Voltage detection	0–36V (±0.3V)
Memory capacity	4000 GPS data entries
USB	Micro-USB
GNSS antenna	Internal
Bluetooth antenna	Internal
Serial ports	N/A

Feature

Voice monitoring range	N/A
Sensors	Accelerometer
	Vehicle movement alert, Ignition detection,
Scenarios	Speeding, Collision, Geo-fence entry/exit,
scenarios	Vehicle battery detection, Power supply
	disconnection
Driving behavior	Harsh acceleration, Harsh braking,
analysis (DBA)	Harsh cornering, Collision
Bluetooth	BLE 4.2
Configuration support	SMS, Tracksolid Pro, PC Tools
Certification	FCC

Operating environment

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

Physical specification

Dimensions	65.0 x 50.0 x 25.0mm
Weight	65g

Optional Configuration*

Inertial Measurement Unit (IMU)

 $^{^{\}star}$ Optional Configuration required to be customized or purchased separately.