



JM-VL04

LTE OBDII GNSS Tracker

The JM-VL04 is a professional 4G OBD vehicle tracker you can easily install. With its advanced accelerometer, gyroscope, and special algorithm, JM-VL04 can detect improper driving behaviors, precisely calculate mileages, and prevent the dark spots occur in the area with poor GNSS signal. By leveraging different 4G communication modules, it covers almost all global LTE frequency bands. A revolutionary update is the voice alarm, which can remind drivers to behave correctly when their bad driving activities have been detected. Moreover, it also supports the embedded microphone for remote listen-in.



Auto Insurance



Vehicle Rental



Eco-Driving



INS-aided GPS Tracking

Ensure constant tracking in the area with poor GPS signal or even without it.



4G LTE Communication

The device can receive and transmit data in the coverage of 4G, 3G and 2G networks.



Driving Behavior Analysis (Advanced)

Receive alerts when any of 8 kinds of dangerous driving behavior is detected.



Mileage Accuracy $\geq 98\%$

Precise mileage calculation based on a unique algorithm, the mileage error can be less than 2%.



Voice Alarm

In risky circumstances, internal speaker will sound human voice to remind drivers to drive carefully.



Remote Listen-in

Inconspicuous mic allows for remote audio monitoring of the environment around the device.



9-36V Operating Voltage

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



BLE4.0 Supported

Through Bluetooth connection you can configure parameters, upgrade software, and debug.

Standard Configuration

Positioning & Location

| | |
|--------------------------------|--|
| Technology | GPS, GLONASS, BDS, GALILEO, AGPS, LBS, INS |
| Accuracy | < 2.5m CEP |
| Tracking sensitivity | -165 dBm |
| Acquisition sensitivity | -148 dBm (cold); -163 dBm (hot) |
| TTF (open sky) | Avg. hot start < 1sec; Avg. cold start < 32sec |

Cellular

| | |
|-------------------|---|
| Technology | LTE Cat 1, 3G (WCDMA), 2G (GSM) JM-VL04E: LTE-FDD: B1/B3/B5/B7/B8/B20/B28 LTE-TDD: B38/B40/B41 |
| Frequency | GSM: B2/B3/B5/B8 JM-VL04L: LTE-FDD: B2/B3/B4/B5/B7/B8/B28/B66 GSM/EDGE: B2/B3/B5/B8 |

Power

| | |
|--------------------------|-------------------------------------|
| Battery | 50mAh industrial-grade LiCo battery |
| Input voltage | 9-36VDC |
| Power consumption | Standby: < 5mA |

Operating environment

| | |
|------------------------------|---------------------------|
| Operating temperature | -20°C to 70°C |
| Operating humidity | 5% to 95%, non-condensing |
| IP rating | IP41 |

Physical specification

| | |
|-------------------|----------------------|
| Dimensions | 65.0 x 50.0 x 25.0mm |
| Weight | 65g |

Interface

| | |
|--------------------------|--|
| LED indication | GNSS (Blue), Cellular (Green), Power (Red) |
| SIM | Nano-SIM |
| Digital I/Os | OBDII port |
| Analog I/Os | N/A |
| Voltage detection | 0-36V ($\pm 0.3V$) |
| Memory capacity | 10,000 GPS data entries |
| USB | Micro USB 2.0 (for configuration) |
| GNSS antenna | Internal |
| Bluetooth antenna | Internal |
| Serial ports | N/A |

Feature

| | |
|--|---|
| Voice monitoring range | < 5 meters |
| Sensors | Accelerometer and gyroscope Vehicle movement alert, Over-speed alert, |
| Scenarios | Geo-fence, Voice monitoring, Vehicle battery detection, Power supply disconnection |
| Driving behavior analysis (DBA) | Harsh acceleration, Harsh braking, Harsh cornering, Sudden lane change, Collision, Skidding, Rollover, Roll & pitch |
| Bluetooth | N/A |
| Configuration support | PC Tools, SMS, Tracksolid Pro, USB 2.0 |
| Certification | FCC, RoHS |

Optional Configuration*

N/A

*Optional Configuration required to be customized or purchased separately.