



JM-VL03

LTE Cat 1 Vehicle Tracker

The JM-VL03 is a discreetly-installed 4G LTE GPS tracker designed for the management of vehicles of all types. The wide 9-90V input voltage range is compatible with almost all vehicles, and the features of this device will prove valuable in managing mobile assets of all sorts. LTE communication with GSM (2G) fallback ensures a solid connection in almost all cases, and the advanced GPS antenna provides strong signal acquisition and more accurate positioning capability. In addition to these features, Driver Behavior Analysis (DBA) and the suite of event-triggered alerts will make the JM-VL03 a valuable part of your fleet management strategy.



Auto Insurance



Vehicle Tracking



Motorcycle



LTE & GSM Network

Communication via 4G LTE networks with 2G GSM fallback.



9-90V Operating Voltage

Wide operating voltage range is suitable for a huge variety of vehicles, including industrial equipment, scooters, golf carts, and more.



Driving Behavior Analysis (Basic)

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



Remote Cut-Off (Fuel/Power)

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



Ignition Detection

Constantly detect the ACC/Ignition status of the vehicle.



Multiple Alerts

Instant alerts for atypical events such as device removal, impounding, geo-fence entry/exit, abnormal vibration, speeding, etc.

Standard Configuration

Positioning & Location

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

Cellular

Technology	LTE Cat 1, GSM JM-VL03E: LTE-FDD: B1/B3/B5/B7/B8/B20 LTE-TDD: B34/B38/B39/B40/B41 GSM: GSM900/DCS1800
Frequency	JM-VL03ME: LTE-FDD: B1/B3/B7/B8/B20/B28 GSM: 850/900/1800/1900 MHz JM-VL03MX: LTE-FDD: B2/B4/B5/B7/B12/B13/B17 GSM: 850/900/1800/1900MHz

Power

Battery	60mAh/3.7V industrial-grade Li-Polymer battery
Input voltage	9-90VDC
Power consumption	Standby: ≤ 5mA

Operating environment

Operating temperature	-20 C to +70 C
Operating humidity	5% to 95%, non-condensing
IP rating	IP65

Interface

LED indication	GNSS (Blue), Cellular (Green), Power (Red)
SIM	Micro-SIM
Digital I/Os	1*ACC, 1*SOS, 1*Relay
Analog I/Os	ADC_1: 3-90VDC (Optional)
Voltage detection	0-90V
Memory capacity	3000 GPS data entries
USB	N/A
GNSS antenna	Internal
Bluetooth antenna	Internal
Serial ports	TTL, RS485 (Optional)

Feature

Voice monitoring range	N/A
Sensors	Accelerometer Vehicle movement alert, Overspeed alert,
Scenarios	Geo-fence, Low battery alert, Power-off alert
Driving behavior	Harsh acceleration, Harsh braking,
analysis (DBA)	Harsh cornering, Collision
Bluetooth	N/A
Configuration support	PC Tools, SMS, Tracksolid Pro
Certification	CE, FCC

Physical specification

Dimensions	94.3 x 50.4 x 15.0mm
Weight	69.0g

Optional Configuration*

270mAh Battery	Instead of 60mAh battery
SOS button	SM interface

*Optional Configuration required to be customized or purchased separately.