



# VL103M

## 4G Multifunctional Vehicle Tracker

Compact in size, yet packed with various features, the VL103M is a powerful GPS tracker designed to handle industrial and commercial fleet applications ranging from rental agencies and public transportation to freight transport and beyond. The device also features an external buzzer/horn alarm that makes it easy to locate your car in case you can't find it, further adding to the security of your fleet. In addition to these features, remote listen-in and the suite of event-triggered alerts will make the VL103M a valuable part of your fleet management strategy.



### GPS & BDS & LBS Positioning

A synergy of multiple positioning systems ensures that locations are accurately displayed on the cloud platform.



### External Buzzer/Horn Supported

Warn the driver once the tracker detects speeding or fatigue driving, and it also supports audible/light warnings to search for vehicles.



### Multiple Alerts

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



### Low Voltage Alert

You'll be alerted via SMS when the motorcycle battery voltage is lower than the threshold.



### IP66 Dust & Water Resistance

Rugged design ensures continued optimal performance, even in the toughest conditions.



### Remote Listen-In

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

Vehicle Rental



Stolen Vehicle Recovery



Fleet Management



## GNSS

Positioning system	GPS+BDS+LBS
Positioning accuracy	< 2,5m CEP
Tracking sensitivity	-165dBm
Acquisition sensitivity	-148dBm
TTF (open sky)	Avg. hot start ≤ 1sec Avg. cold start ≤ 32sec

## Cellular

Communication network	LTE Cat 1/GSM
Frequency	<b>VL103M (L)</b> LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28 GSM: B2/B3/B5/B8 <b>VL103M (E)</b> LTE-FDD: B1/B3/B7/B8/B20/B28 LTE-TDD: B34/B38/B39/B40/B41 GSM: B2/B3/B5/B8

## Power

Battery	270mAh/3.7V industrial-grade Li-Polymer battery
Input voltage	9-90VDC

## Interface

LED indication	GNSS (Blue), Cellular (Yellow), Power (Red)
SIM	Micro-SIM
Data storage	16+16Mb
Digital inputs	ACC, SOS
Digital outputs	Relay, IO for buzzer/horn output

## Physical specification

Dimensions	92.0 x 40.0 x 20.0mm
Weight	55g

## Operating environment

Operating temperature	-20 C to +70 C
IP rating	IP66

## Feature

Sensors	Accelerometer
Scenarios	Vibrating alert, Speeding alert, SOS call, Tamper alert, Cover removal alert, Geo-fence entry/exit alert, Vehicle battery detection