



JM-VL02

LTE Cat M1 & NB2 Fleet Tracker

The JM-VL02 is designed to handle industrial and commercial fleet applications ranging from rental agencies and public transportation to construction equipment and beyond. With ACC detection, SOS button, remote fuel/power cutoff, and various other I/Os for peripherals, this powerful device can be customized to streamline your operations and boost efficiency. Built with a cutting-edge communications module leveraging the Cat-M1/NB-IoT networks with GSM fallback, the VL-02 will be helping to maximize your fleet operations for years to come.



LTE Cat M1/NB2 & GSM

Communications over IoT-specific LTE networks with reliable 2G GSM fallback.



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.



Panic Button

Contact dispatch or emergency support with a discreet, in-cabin SOS button.



Door Status Detection

Useful insight into the status of a fleet vehicle; be alerted if a door is unexpectedly opened.



Fuel/Temperature Sensor (Optional)

Optional peripherals to monitor fuel level or temperature add visibility to your operations and help save money.



RFID Reader (Optional)

Identify drivers when they start vehicles, and collect and upload the drivers' identification.



Multiple Alerts

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

Fleet Management



Construction Machinery Monitoring



Public Transport



GNSS

Positioning system	GPS+LBS
Frequency	L1
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/GSM
Frequency	JM-VL02A: LTE Cat-M1/NB2: B1/B2/B3/B4/B5/B12/B13/B28/B66 GSM: 850/900/1800/1900 MHz JM-VL02E: LTE Cat-M1/NB2: B1/B3/B5/B8/B18/B19/B20/B26 GSM: 850/900/1800/1900 MHz

Power

Battery	300mAh/3.7V industrial-grade Li-Polymer battery
Input voltage	9-36VDC

Interface

LED indication	GNSS (Blue), Cellular (Green), Power (Red)
SIM	Standard-SIM
Data storage	32+32Mb
Digital inputs	ACC, SOS, input
Digital outputs	Relay, output

Physical specification

Dimensions	105.5 x 57.0 x 21.8mm
Weight	104g

Operating environment

Operating temperature	-20 C to +70 C
IP rating	IP65

Feature

Certificates	CE, FCC, PTCRB, AT&T, T-Mobile, Verizon
Sensors	Accelerometer
Scenarios	Vehicle movement alert, Over-speed alert, Geo-fence, Vehicle battery detection, Power supply disconnection
Driving behavior analysis	Harsh acceleration, Harsh braking, Harsh cornering, Collision