Jimi IoT

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. And, using cutting-edge LTE (Cat M1/NB-IoT) and GSM communications, the VL02 will be helping you maximize your fleet operations for years to come.

LTE Cat M1/NB2 & GSM
The device can receive and transmit data in the coverage of 4G and 2G network.

Ignition Detection
Always keeps you informed of the ACC status of your vehicle.

Door Status Detection
You'll be quickly notified when vehicle door has been illegally opened.

RFID Reader (Optional)
Identify drivers when they start vehicles, and collect and upload the drivers' identification.

Remote Cut-off (Fuel/Power)
Immobilize a vehicle by cutting off its power source/fuel supply through an installed relay.

Panic Button
A button close to driver allowing him to ask for immediate help with just a single press.

Fuel Sensor/ Temperature Sensor (Optional)
Prevents fuel theft and leakage, also the damage to goods caused by abnormal temperature.

Multiple Alerts
Instant alerts of typical events such as vibration, towing, geo-fence, speeding, etc.

| Fleet Management | Construction Machinery Monitoring | Public Transport |

GNSS

Positioning system	GPS+LBS
Frequency	L1
Positioning accuracy	<10 meters
Track sensitivity	-165dBm
Acquisition sensitivity	-148dBm
TTFF (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/B6 **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℃ to +70℃
IP rating	IP65

Feature

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