



FMC003

4G LTE Cat 1 tracker with OBD OEM data reading



Car sharing, rental
& leasing



Logistics & delivery
services



Driver safety



Fleet telematics



E-mobility
management

READING OBD OEM PARAMETERS

Get real odometer & real fuel level data

EFFORTLESS PLUG & PLAY INSTALLATION

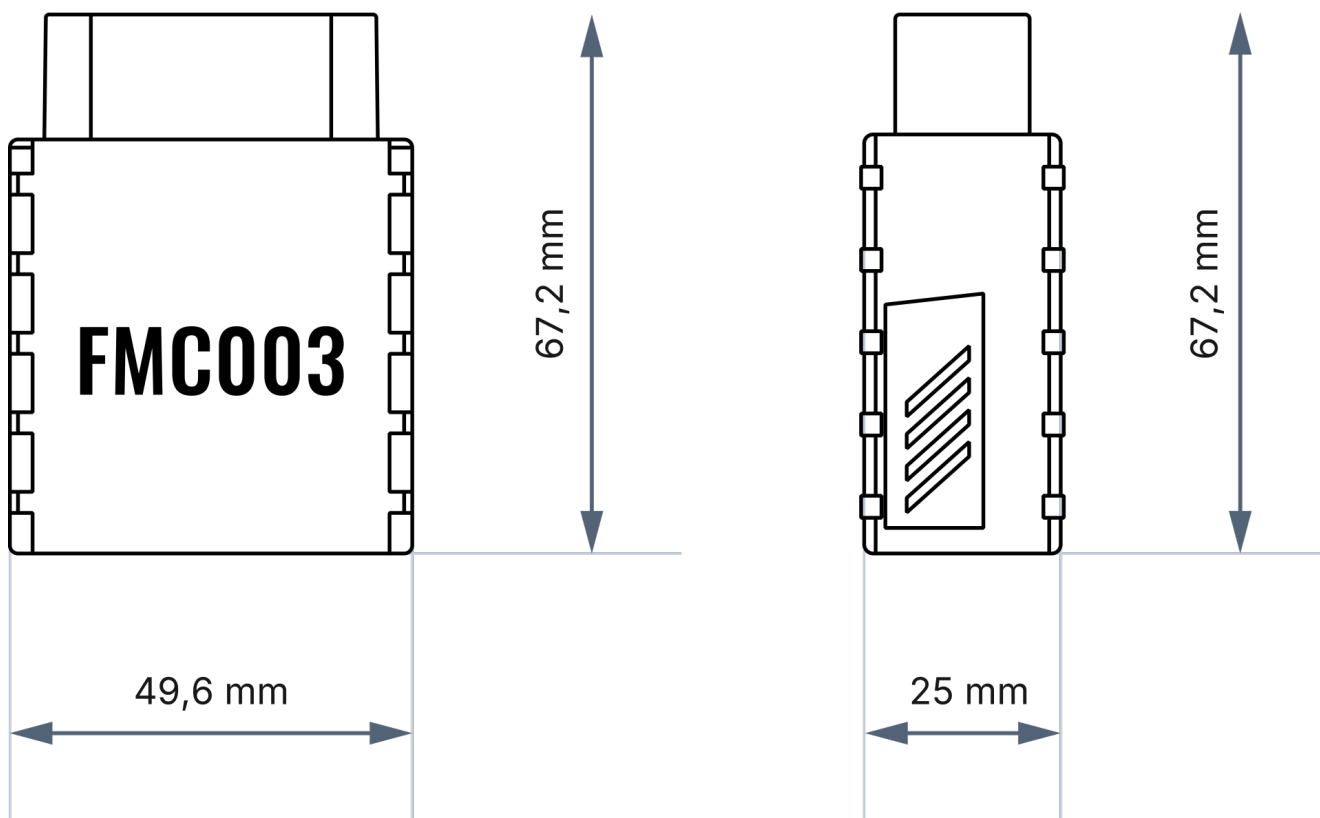
Simply plug the device in OBD-II port and start tracking

ELECTRIC VEHICLE SUPPORT

Bringing new value and expanding usage scenarios with more than 150 supported vehicles in the EV market

KNOW SUPPORTED VEHICLES AND DATA

Supported vehicle list with all available manufacturer models and parameters



Module

Name	Teltonika TM2500, MeiG SLM320-E, MeiG SLM320-LA
Technology	LTE(Cat1)/2G(GSM/GPRS)/GNSS/BLE [®] LE

GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
Receiver	33 tracking channels 99 acquisition channels
Tracking sensitivity	-165 dBm
Position Accuracy	< 2.5 m CEP
Velocity Accuracy	< 0.1 m/s (within +/- 15% error)
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

Cellular

Technology	LTE Cat 1/GSM
2G bands	GSM: B2/B3/B5/B8
4G LTE bands	SLM320-E: LTE FDD: B1/B3/B7/B8/B20/B28 LTE-TDD:B38/B40/B41 SLM320-LA: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28 LTE-TDD:B40
Data transfer	LTE: LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL) LTE TDD: Max 8Mbps (DL)/Max 2Mbps (UL) GSM: GPRS: Max 85.6Kbps (DL)/Max 85.6Kbps (UL)
Transmit power	Class 4 for GSM850/900: 23±2dBm Class 1 for GSM1800/1900: 20±2dBm Class 3 for LTE-TDD: 23±2.7dBm Class 3 for LTE-FDD: 23±2.7dBm
Data support	SMS (text/data)

Power

Input voltage range	10 - 30 V DC with overvoltage protection
Internal Back-up battery	170 mAh Li-Ion battery, 3.7 V (0.63 Wh)
Power consumption	At 12V < 3 mA (Ultra Deep Sleep) At 12V < 5 mA (Deep Sleep) At 12V < 16 mA (Online Deep Sleep) At 12V < 18 mA (GPS Sleep) At 12V < 33 mA (nominal with no load) At 12V < 2A Max. (with full Load / Peak)

Bluetooth® Technology

Specification	4.0 + LE
Supported peripherals	Temperature and Humidity sensor, Inateck Barcode Scanner, Universal Bluetooth® LE sensors support

Physical specification

Dimensions	67,2 x 49,6 x 25 mm (L x W x H)
Weight	63 g

Operating environment

Operating temperature (without battery)	-40 °C to +85 °C
Storage temperature (without battery)	-40 °C to +85 °C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP41
Battery charge temperature	0 °C to +45 °C
Battery discharge temperature	-20 °C to +60 °C
Battery storage temperature	-20 °C to +45 °C for 1 month -20 °C to +35 °C for 6 months

OBD interface

Data	HS CAN, MS CAN, SW CAN, K-line
Data reading	OEM Fuel level, odometer and up to 32 vehicle onboard parameters, supported OBD protocols: ISO 9141-2 (5 baud init, 10.4 kbaud) ISO 14230-4 KWP (5 baud init, 10.4 kbaud) ISO 14230-4 KWP (fast init, 10.4 kbaud) ISO 15765-4 CAN (11 bit ID, 250 kbaud) ISO 15765-4 CAN (11 bit ID, 500 kbaud) ISO 15765-4 CAN (29 bit ID, 250 kbaud) ISO 15765-4 CAN (29 bit ID, 500 kbaud) ISO 14229 (UDS) J2819 (VW TP2.0)

Interface

Connection	OBDII Socket
GNSS antenna	Internal High Gain
Cellular antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	Micro-SIM
Memory	128MB internal flash memory

Features

Sensors	Accelerometer
Scenarios	Green Driving, Over Speeding detection, Jamming detection, GNSS Fuel Counter, Excessive Idling detection, Unplug detection, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Configuration and firmware update	FOTA WEB, FOTA, Teltonika Configurator (USB, Bluetooth®)
SMS	Configuration, Events, Debug
GPRS commands	Configuration, Debug
Time Synchronization	GNSS, NITZ, NTP
Fuel monitoring	OBDII, OEM fuel level
Ignition detection	Accelerometer, External Power Voltage, Engine RPM

Certification & approvals

Regulatory	CE/RED, UKCA, E-Mark, EAC, RoHS, REACH, CITC, Anatel, RCM, SDPPI POSTEL, SIRIM QAS
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