



# FMM00A

LTE CAT1 advanced plug and play tracker with Bluetooth® technology



## CAT M1

Device supports LTE CAT M1 connectivity, which allows low power wide area technologies to be used

## CRASH DETECTION

Crash detection feature based on the accelerometer data

## OBDII DATA

Standard OBDII data reading from vehicle ECU

## BLUETOOTH® 4.0

Bluetooth for external devices and Low Energy Sensors



**Fleet  
management**



**Driver  
log-book**



**Insurance  
Telematics (UBI)**

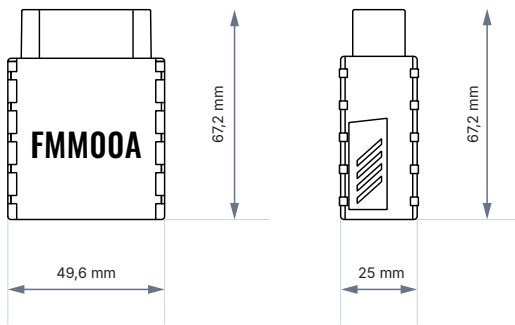


**Connected  
car**



**Rental and  
leasing**

Teltonika FMM00A represents next step in communication technology – this is the first Plug and Track LTE CAT M1 OBD device with GNSS and Bluetooth® connectivity. Possibility to read OBD II parameters, effortless installation and detailed accelerometer data provides a compelling solution. This is perfect tracker for a wide range of applications – fleet management of light commercial vehicles, car rental & leasing, driver log-book, insurance telematics (UBI) and so on. Device supports various Bluetooth® Low Energy sensors, beacons, firmware and configuration update via Bluetooth®.



## GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, QZSS
Protocol compatible	NMEA, GGA, GGL, GSA, GSV, RMC, VTG
Receiver	Tracking: 33/99 acquisition channels
Tracking sensitivity	-165 dBm
Accuracy	< 3 m
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

## Cellular

Module	Quectel BG95-M1
Technology	LTE Cat M1
4G bands	LTE FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85
Data transfer	CAT M1: Max. 588Kbps (DL)/Max. 1119Kbps (UL)
Data support	SMS (text/data)

## Power

Input voltage range	10 - 30 V DC with overvoltage protection
Internal Back-up battery	115 mAh Li-Ion, 3.7 V battery (0.43 Wh)

## Bluetooth® technology

Specification	4.0 + LE
Transmit power	Class 5 (20dBm+-2dB) for LTE-FDD bands
Supported peripherals	Bluetooth® LE beacon label, Bluetooth® LE Beacon, Bluetooth® LE temperature sensor, Bluetooth® LE magnetic sensor, BLE movement sensor, Bluetooth® temperature and humidity sensor

## Physical specificationa

Dimensions	67,2 × 49,6 × 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

**Interface**

OBDII connection	K-Line, CAN bus data
GNSS antenna	Internal High Gain
GSM antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	Micro-SIM card
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, Teltonika Configurator
SMS	Configuration, Events, Debug
TCP commands	Configuration, Debug
Time Synchronization	GNSS, NITZ, NTP
Fuel monitoring	OBDII (depends on vehicle model)
Ignition detection	Accelerometer, External Power Voltage, Engine RPM