

# FMM80A

PLUG AND PLAY TRACKER DESIGNED  
FOR NORTH AMERICA



4G

FUTURE-PROOF  
NETWORK SUPPORT



FAST & EASY  
INSTALLATION



RELIABLE CONNECTION  
BETWEEN DEVICES

## 4G CAT M1

Reliable 4G (LTE CAT M1)  
connection

## OBDII PORT CONNECTION

Allows installing tracker in a few  
seconds

## BLUETOOTH 4.0

Bluetooth for external devices and  
Low Energy sensors

## CRASH DETECTION

Crash detection functionality working  
according accelerometer data



LIGHT  
VEHICLES



DRIVER  
LOG-BOOK



INSURANCE  
TELEMATICS



COURIER  
DELIVERY  
SERVICES



RENTAL AND  
LEASING

FMx8 series devices are EASY to use and FAST to install. The number “8” brings everything together in one place and stands out with its simplicity of basic tracking.

Teltonika FMM80A tracker is a small OBDII Plug and Play device with 4G LTE Cat M1 and Bluetooth connectivity. An extremely fast and easy installation allows connecting device in a few seconds! No tools or engineers are required for installation.

Thanks to that, FMM80A tracker perfectly suits for light vehicle tracking in applications like courier delivery service, car rental & leasing, insurance telematics and many other industries, where simple integration is a must. It is a perfect solution for real time monitoring, specially for beginners and those, who are looking for new opportunities to expand their businesses.

FMM80A device has a built-in accelerometer, which provides accurate crash trace data. This tracker also supports various Bluetooth Low Energy sensors, beacons, firmware and configuration update via Bluetooth. All of that increase the number of possible use scenarios in any market. It is quick to install, easy to use and ready to start tracking in minutes!



**Product**

Model name FMM80A-Q2IB0

**Module**

Name Quectel BG95-M1 with Teltonika TM2500

Technology LTE CAT M1/GNSS/BLUETOOTH

**GNSS**

GNSS L1: GPS, GLONASS, GALILEO, BEIDOU, SBAS\*, QZSS\*, DGPS\*, AGPS

Receiver 33 channel

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

\*Optional modes available with custom firmware applications, for more information contact your sales manager.

**Cellular**

4G bands LTE FDD (CAT M1): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85

Data transfer LTE FDD (CAT M1): Max. 588 Kbps (DL) / Max. 1119 Kbps (UL)

Transmit Power Class 5 for LTE-FDD 21±2.7dBm

Bluetooth: 4.57±2dBm

Bluetooth LE: -4.83±2dBm

Data support SMS (TEXT, PDU), Network protocols (TCP,UDP,TLS,EGTS,MQTT)

**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)

Internal fuse 3 A, 125 V

## Bluetooth

Specification	4.0 + LE
Supported peripherals	Temperature and Humidity sensor, Inateck Barcode Scanner, Universal BLE 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 temperature (with battery)	0 °C to +40 °C
Storage temperature (with battery)	-20 °C to +60 °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

Connection	OBDII socket
GNSS antenna	Internal High Gain
GSM antenna	Internal High Gain
USB	2.0 USB Micro B
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, Teltonika Configurator (USB, Bluetooth)
SMS	Configuration, Events, Debug
GPRS commands	Configuration, Debug
Time Synchronization	GNSS, NITZ, NTP
Ignition detection	Accelerometer, External Power Voltage

## Certification & Approvals

Regulatory	AT&T, IC, FCC, PTCRB
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