

FMB003

ADVANCED PLUG AND TRACK DEVICE WITH BLUETOOTH

FMB003 is ultra-small plug and play device dedicated to OBD applications of next generation. Main feature of FMB003 is its possibility to read OEM parameters (PIDs) via OBD port. With this device you will be able to read Real Odometer and Real Fuel Level data. More to that, device comes with supported vehicles and data list, so you need to guess no more, now you know what data you can read from specific vehicle.

It is a perfect tracker for a wide range of use cases - including fleet management of light commercial vehicles, driver log-book, insurance telematics (UBI), car rental & leasing and others.

Device supports various BLE 4.0 sensors, beacons, hands-free headset, firmware and configuration update via Bluetooth, expanding its already rich set of features.

FMB003 - setting new standard in OBD tracking!



Our smallest GNSS tracker for rich connected car applications



Crash detection according to accelerometer data



Bluetooth for external devices and Low Energy sensors



OEM OBDII DATA

List of vehicles with available OEM parameters to be read



Supported vehicles and data list

OBDII Data

Standard OBDII data reading from vehicle ECU

USE CASES



FLEET MANAGEMENT



DRIVER LOG-BOOK



INSURANCE TELEMATICS (UBI)



CONNECTED CAR



RENTAL AND LEASING



Module

Name	Teltonika TM2500
Technology	GSM/GPRS/GNSS/BLUETOOTH

GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
Receiver	33 channel
Tracking sensitivity	-165 dBm
Accuracy	< 3 m
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

Cellular

Technology	GSM
2G bands	Quad-band 850/900/1800/1900 MHz
Data transfer	GPRS Multi-Slot Class 12(up to 240 kbps)
Data support	SMS (text/data)

Power

Input voltage range	12 – 30 V DC with overvoltage protection
Back-up battery	3.7 V 45 mAh

Bluetooth

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

Physical specification

Dimensions	52.6 x 29.1 x 26 mm (L x W x H)
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Interface

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

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)

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	+10 °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

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), FMBT mobile application (Configuration)
SMS	Configuration, Events, Debug
GPRS commands	Configuration, Debug
Time Synchronization	GPS, NITZ, NTP
Fuel monitoring	OBDII, OEM fuel level
Ignition detection	Accelerometer, External Power Voltage, Engine RPM

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