

FMB020

ADVANCED PLUG AND TRACK DEVICE WITH BLUETOOTH

FMB020 is ultra-small OBDII Plug and Track device with GNSS, GSM and Bluetooth connectivity for a true connected car application. 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.

The FMB020 device supports crash detection functionality, which allows the user to be notified when a car crash happens. By using the accelerometer data received during the crash, it is possible to visualize angle and measure force with which vehicle was hit. This could prove to be useful in Insurance Telematics solutions. Device supports various Bluetooth Low energy sensors, beacons, hands-free headset, firmware and configuration update via Bluetooth.

The best choice for someone looking for a practical OBD solution.



Our smallest GNSS tracker for simple connected car applications



Crash detection according to accelerometer data



Bluetooth for external devices and Low Energy sensors



Plug and play installation - simply plug in the device and start tracking



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
Position accuracy	< 2.5 CEP
Velocity accuracy	< 0.1m/s (within +/- 15% error)
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 40 mAh (not final specifications)

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
Cellular antenna	Internal GSM High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	Nano-SIM

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

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	GNSS Fuel counter
Ignition detection	Accelerometer, External Power Voltage

