



# FMB920

Small and smart GPS tracker with a 2G connectivity



## EXTENSIVE MONITORING

Blocking engine remotely among the numerous available fleet control measures

## CRASH DETECTION

Crash detection functionality working according to accelerometer data

## ECO-DRIVING

Eco-driving scenario for all-round better driving

## BLUETOOTH® TECHNOLOGY

Extended product usage scenarios with external devices



**Light vehicles**



**Motorbikes**



**Insurance telematics (UBI)**



**Courier delivery services**

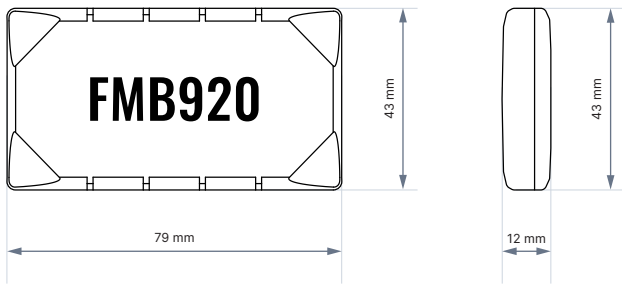


**Rental and leasing**

Teltonika FMB920 is a small and smart tracker with Bluetooth connectivity, internal High Gain GNSS and GSM antennas and an integrated backup battery.

The model is compact, reliable, accurate and enduring. All the interfaces it has are more than enough for basic tracking. Digital Input can be used for ignition, door or alarm button status monitoring, while vehicle remote immobilizing may be achieved by using the Digital Output of the device. At the same time, Analog Input extends device usage scenarios with temperature, humidity, liquid level monitoring and many more.

All of that brings unquestionable value to numerous market segments and societies, countries' budgets and the global economy overall. It can be perfectly adapted to any fleet and any transportation. Its is a perfect choice for basic track & trace and fleet management.



### Module

Name	Teltonika TM2500
Technology	GSM/GPRS/GNSS/BLUETOOTH® LE

### 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), GPRS Mobile Station Class B
Data support	SMS (text/data)

### Power

Input voltage range	6 - 30 V DC with overvoltage protection
Back-up battery	170 mAh Li-Ion battery (0.63 Wh)

### BLUETOOTH® technology

Specification	4.0 + LE
Supported peripherals	EYE beacon and sensor, Headset, OBDII dongle, Inateck Barcode Scanner, Bluetooth® LE beacons and sensors support

### Physical specification

Dimensions	79 × 43 × 12 mm (L x W x H)
Weight	54 g

### Interface

Digital Inputs	1
Digital Outputs	1
Analog Inputs	1
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

### 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	IP54
Battery charge temperature	0 °C to +45 °C
Battery discharge temperature	-20 °C to +60 °C
Battery storage temperature	-20 °C to +35 °C for 1 month -20 °C to +30 °C for 6 months

### Features

Sensors	Accelerometer
Scenarios	Green Driving, Over Speeding detection, Jamming detection, GNSS Fuel Counter, DOUT Control Via Call, 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® wireless technology), FMBT mobile application (Configuration)
SMS	Configuration, Events, DOUT control, Debug
GPRS commands	Configuration, DOUT control, Debug
Time Synchronization	GPS, NITZ, NTP
Fuel monitoring	LLS (Analog), OBDII dongle
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (OBDII dongle)

### Certification & Approvals

Regulatory	Anatel, CE/RED, E-Mark, EAC, ICASA, NTC, REACH, RoHS, SDPPI (POSTEL), SIRIM QAS
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