FMB920

SMALL AND SMART TRACKER WITH BLUETOOTH AND ACCELEROMETER

FMB920 is a slim design easily fitted tracker with GNSS/GPS internal antennas, flash memory, integrated backup battery, accelerometer, inputs/output and various BLE 4.0 connectivity sensors and beacons support. Thanks to a rich feature set, this EASY category tracker delivers unquestionable value for the GPS telematics service providers and end-users.

The model has been designed for light commercial vehicles and passenger cars tracking in insurance telematics, rental and cars sharing, recovery of stolen cars, public safety and courier delivery services, taxi, corporate fleets, etc. The true bestseller FMB920 is compact, reliable, accurate, and affordable – the qualities appreciated by our clients throughout the world.

Bluetooth for external devices and Low Energy sensors

Crash detection functionality working according accelerometer data

Allows device to work without external power source

OBDII Dongle

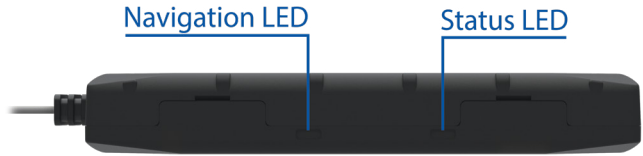Allows reading CAN bus data from vehicle ECU via Bluetooth
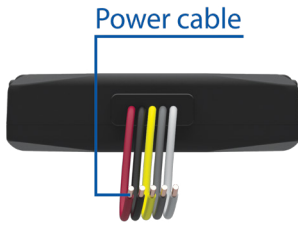
USE CASES

LIGHT VEHICLES

MOTORBIKES

INSURANCE TELEMATICS (UBI)

COURIER DELIVERY SERVICES

RENTAL AND LEASING

Power cable

Navigation LED

Status LED

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), 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

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

Physical specification

Dimensions	79 x 43 x 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), 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	CE/RED, E-Mark, EAC, RoHS, REACH