

**SENSORES E INSTRUMENTACION**  
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# FMT100

## EASY INSTALLATION GPRS/GNSS TRACKER WITH GYROSCOPE

Teltonika FMT100 small, smart and waterproof GNSS SPECIAL tracker with Bluetooth connectivity and internal backup battery. Biggest in its class internal High Gain GNSS antenna allows mounting directly on car battery under the hood. FMT100 is equipped with special clamp connector for fast power cable connection to the car battery. Solid waterproof case and built-in accelerometer & gyroscope sensors with extremely accurate crash trace functionality makes this device perfectly suitable for insurance market solutions.



Allows device to work without external power source



Bluetooth for external devices and Low Energy sensors



Crash detection functionality working according accelerometer data



Built-in accelerometer for accurate crash trace data

## USE CASES



LIGHT  
VEHICLES



TAXI



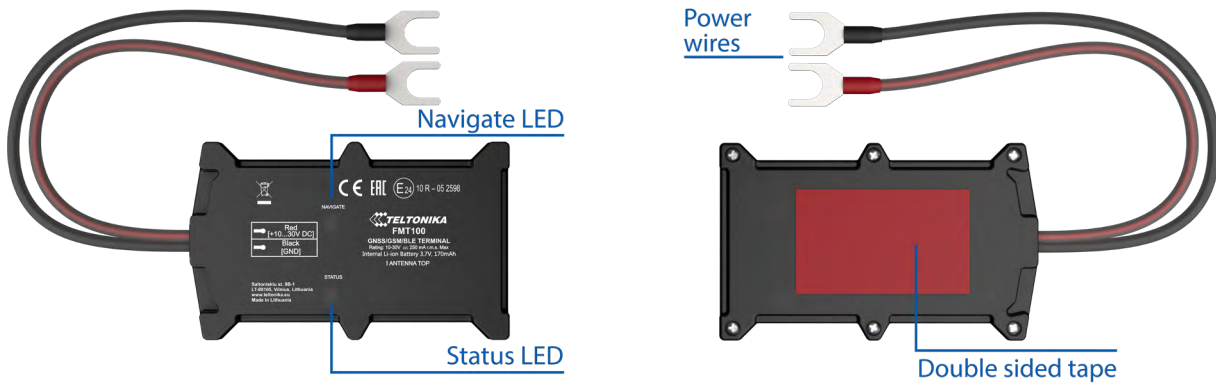
INSURANCE  
TELEMATICS (UBI)



COURIER DELIVERY  
SERVICES



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

### Power

Input voltage range	10 - 30 V DC with overvoltage protection
Back-up battery	170 mAh Li-Ion battery 3.7 V (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	92.5 x 57.6 x 14 mm (L x W x H)
Weight	63 g

**Interface**

GNSS antenna	Internal High Gain
Cellular antenna	Internal GSM 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	IP65
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 and gyroscope
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 dongle
Ignition detection	Accelerometer, External Power Voltage, Engine RPM (OBDII dongle)

**Certification & Approvals**

Regulatory	CE/RED, EAC, REACH, RoHS
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