



TELTONIKA Telematics PLUG AND TRACK DEVICE WITH BLUETOOTH Instruction Manual

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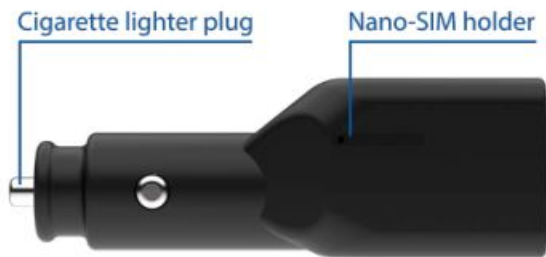
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FMP100 is Plug and Play tracker with GNSS, GSM and Bluetooth connectivity and cigarette lighter power connector for easy installation. It is ideal for light vehicle tracking in applications like courier delivery service, car rental & leasing, insurance telematics and many other applications, where simple integration is a must. Bluetooth 4.0 LE allows this small device to have capabilities of an advanced tracker: various data reading from Bluetooth Low Energy sensors, hands-free headset usage, firmware and configuration update.



USE CASES



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** 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, Hands-free headset, Inateck Barcode Scanner, Universal BLE sensors support

Physical specification

- **Dimensions** 96,7 x 33,4 x 27,5 mm (L x W x H)

Interface

- **Connection** Cigarette lighter socket
- **Configurable buttons** 1
- **GNSS antenna** Internal High Gain
- **Cellular antenna** Internal GSM High Gain
- **USB**
 - 1 x USB 2.0 Micro-USB for configuration
 - 1 x USB type A for external device charging (5V 1A)
- **LED indication** RGB LED
- **SIM** Nano-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** 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
- **Ignition detection** Accelerometer, External Power Voltage

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