

TELTONIKA FMT100 Tracking Terminal



# TELTONIKA FMT100 Tracking Terminal Instructions

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**TELTONIKA FMT100 Tracking Terminal**



## Product Information

### Specifications

- **GSM / GPRS / GNSS features:**

- Teltonika TM2500 multi-band module (GSM 850 / 900 / 1800 / 1900 MHz)
- GPRS class 12
- SMS (text, data)
- Integrated GNSS receiver
- Up to -165 dBm GNSS receiver sensitivity

- **Hardware features:**

- Built-in movement sensor
- Built-in Bluetooth 4.0
- Internal High Gain GNSS antenna
- Internal High Gain GSM antenna
- 128MB internal flash memory
- 170 mAh Li-ion rechargeable 3.7 V battery

- **Interface features**

- **Special features:**

- Fast position fix
- High Quality track even in high density urban canyon
- Small case
- High gain internal GNSS and GSM antennas
- 2 LED status indication
- Real-time tracking
- Smart data acquisition based on: Time, Angle, Distance, Ignition or any other I/O event
- Sending acquired data via GPRS
- GPRS and SMS I/O events
- Virtual odometer
- Jamming detection

- Configurable using Secured SMS Commands
- Spy call
- Overvoltage protection

## **Product Usage Instructions**

### **1. Installation**

Follow the installation guide provided in the manual to set up the FMT100 device properly.

### **2. Powering On**

Ensure the device is charged and then power it on by pressing the designated power button.

### **3. Tracking**

To track remote objects, make sure the device has a clear view of the sky for better GPS reception.

### **4. Data Transfer**

The device transfers collected coordinates via the GSM network to the server for real-time tracking.

<https://wiki.teltonika-gps.com/view/FMT100> \_General description

## **FMT100 General description**

Main Page > East & Easy Trackers > EMT100 > EMT100 Manual > FMT100 General description FMT100 is a tracking terminal with GNSS and GSM connectivity, which is able to collect device coordinates and transfer them via GSM network to server. This device is perfectly suitable for applications, which need location acquirement of remote objects.

## **Contents**

1. Package contents
2. Basic characteristics
3. Technical features
4. Technical information about internal battery
5. Electrical characteristics
6. Absolute maximum ratings

## **Package contents**

The FMT100 device is supplied to the customer in a cardboard box containing all the equipment that is necessary for operation.

### **The package contains:**

- Already implemented FMT100 device;
- Top and bottom device cover parts;
- Li-ion battery.

## **Basic characteristics**

## **GSM / GPRS / GNSS features:**

- Teltonika TM2500 multi-band module (GSM 850 / 900 / 1800 / 1900 MHz);
- GPRS class 12;
- SMS (text, data);
- Integrated GNSS receiver;
- Up to -165 dBm GNSS receiver sensitivity.

## **Hardware features:**

- Built-in movement sensor;
- Built-in Bluetooth 4.0;
- Internal High Gain GNSS antenna;
- Internal High Gain GSM antenna;
- 128MB internal flash memory;
- 170 mAh Li-ion rechargeable 3.7 V battery.

## **Interface features:**

- Power supply: 10 ÷ 30 V;
- USB port;
- 2 LEDs indicating device status.

## **Special features:**

- Fast position fix;
- High Quality track even in high density urban canyon;
- Small case;
- High gain internal GNSS and GSM antennas;
- 2 LED status indication;
- Real-time tracking;
- Smart data acquisition based on:
  - Time;
  - Angle;
  - Distance;
- Ignition or any other I/O event.
- Sending acquired data via GPRS;
- GPRS and SMS I/O events;
- Virtual odometer;
- Jamming detection;
- Configurable using Secured SMS Commands;
- Spy call;
- Overvoltage protection.

## Description Voltage Duration

- Normal operation +10 ... +30 V Unlimited
- Protection turns on, device turns off 34 V Unlimited
- Maximum voltage <70 V Unlimited
- Maximum voltage impulse 90 V 5 ms

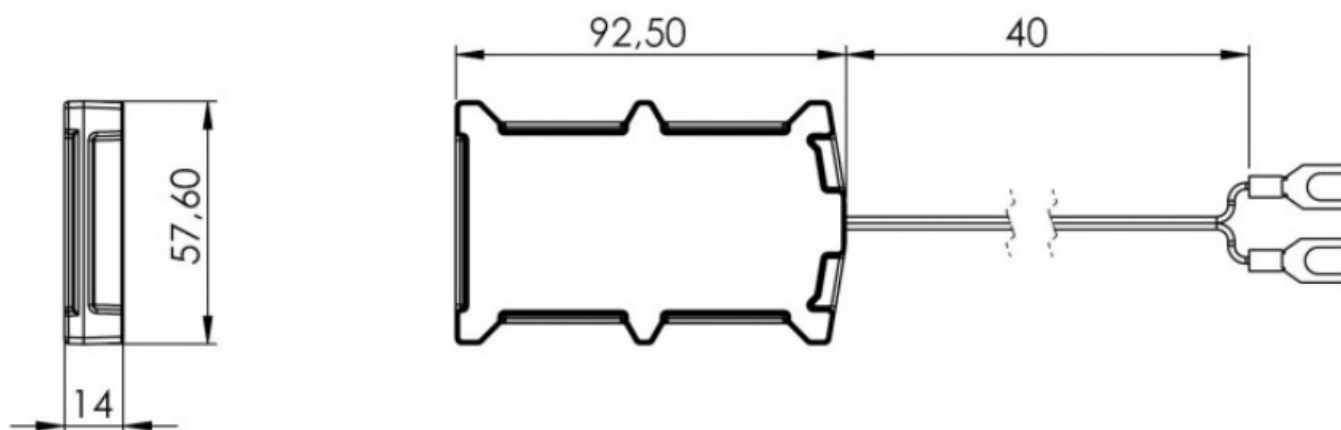
## Technical features

- **Part name: Physical specification**
- **Navigation indication:** LED
- **Modem indication:** LED
- **USB Micro:** USB socket
- **GNSS:** Internal GNSS antenna
- **GSM:** Internal GSM antenna

## Technical details

- 2 W max. Current consumption at 12 V (Power supply 10...30 V DC):
  - GPRS: **average 6.5 mA**
  - Nominal: **average 24.41 mA**
  - GNSS sleep: **average 5.48 mA**
  - Deep Sleep: **average 3.21 mA**
  - Online Deep Sleep: **average 3.75 mA**
  - Ultra Deep Sleep: **average 1.47 mA**
- Battery charge current Average: **120 mA**
- Rated current: **250 mA**
- Operating temperature (without battery): **-40...+85 °C**
- Storage temperature (without battery): **-40...+85 °C**
- Storage relative humidity: **5...95% (no condensation)**
- Internal fuel: **3A, 125V**
- Power Cable + Device + case + battery weight: **80 g**

## Dimension drawing (tolerance ±2mm):



## Technical information about the internal battery

Internal back-up battery	Battery voltage (V)	Nominal Capacity (mAh)	Power (Wh)	Charge temperature (°C)	Discharge temperature (°C)	Storage temperature (°C)
Li-ion rechargeable battery	3.75□3.90	170	0.64 - 0.66	0 to +45	-20 to +60	-20 to +45 for 1 month -20 to +35 for 6 months

Batteries are covered by 6 month warranty support.

- CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
- DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.
- Battery should not be disposed of into general household waste.
- Bring damaged or worn-out batteries to your local recycling center or dispose them into a battery recycle bin commonly found in supermarkets.

## Electrical characteristics

Characteristic description	Value			Unit
	Min.	Typ.	Max.	
Supply Voltage:				
Supply Voltage (Recommended Operating Conditions)	+10		+30	V

## Absolute maximum ratings

Characteristic description	Value			Unit
	Min.	Typ.	Max.	
Supply Voltage (Absolute Maximum Ratings)	-30		+30	V

## FAQ

### Q: How do I configure the device using Secured SMS Commands?

A: To configure the device using Secured SMS Commands, refer to the user manual for the specific commands and steps to follow.


### Q: What is the battery life of the Li-ion rechargeable battery?

A: The Li-ion rechargeable battery has a capacity of 170 mAh and provides uninterrupted operation within the specified voltage range of +10 to +30 V.

### Q: Can the device detect jamming attempts?

A: Yes, the FMT100 device has jamming detection capabilities to alert users of any interference attempts.

## Documents / Resources

	<p><a href="#">TELTONIKA FMT100 Tracking Terminal</a> [pdf] Instructions FMT100 Tracking Terminal, FMT100, Tracking Terminal, Terminal</p>
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## References

- [User Manual](#)

### [Manuals+](#), [Privacy Policy](#)

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