

# FMP100 General description

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FMP100 is a tracking terminal with GNSS and GSM connectivity, which is able to collect device coordinates and transfer them via GSM network to a server. This device is perfectly suitable for applications, which require the location acquirement of remote objects.

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## Package contents

The FMP100 device is supplied to the customer in a cardboard box containing all the equipment that is necessary for operation. The package contains:

- FMP100 device;
- Top and bottom device cover parts;
- Li-ion battery.

## Basic characteristics

GSM / GPRS / GNSS features:

- Teltonika [TM2500](#) quad band module (GSM 850 / 900 / 1800 / 1900 MHz);
- GPRS Multi-Slot class 12 (Up to 85,6 kbps);
- 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 type A port for external device charging;
- Micro USB type B for connection to PC;
- 2 LEDs indicating device status.

## Special features:

- Fast position fix;
- High Quality track even in high density urban canyon;
- Small case;
- 2 LED status indication;
- Real time tracking;
- Smart data acquisition based on:
  - Time;
  - Speed;
  - 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.
- Overvoltage protection.

## Technical features

<b>Part name</b>	<b>Physical specification</b>
Navigation indication	RGB LED
Modem indication	RGB LED
USB	Micro USB socket, USB-A 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)	Nominal: average 28 mA, GNSS sleep: average 8 mA Deep Sleep: average 7 mA Online Deep Sleep: average 7 mA Ultra Deep Sleep: average 5 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 fuse	3A, 125V
Device + case + battery weight	55.5 g

## Technical information about 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
Input voltage (Recommended Operating Conditions)	0	Supply voltage	V

## Absolute maximum ratings

Characteristic description	Value			Unit
	Min.	Typ.	Max.	
Supply Voltage (Absolute Maximum Ratings)	-32		+32	V