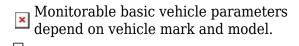
FMC00A General description

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FMC00A 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. Teltonika FMC00A represents next step in communication technology – this is the first Plug and Track LTE OBD device with GNSS and Bluetooth® connectivity. Possibility to read OBD II parameters, effortless installation and detailed accelerometer data provides a compelling solution. This is perfect tracker for a wide range of applications – fleet management of light commercial vehicles, car rental & leasing, driver log-book, insurance telematics (UBI) and so on. Device supports various Bluetooth® Low Energy sensors, beacons, firmware and configuration update via Bluetooth®.



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Package contents

The FMC00A device is supplied to the customer in a cardboard box containing all the equipment that is necessary for operation. The package contains:

- FMC00A device;
- Top and bottom device cover parts;
- OBD II power supply adapter.

Basic characteristics

GSM / GPRS / GNSS features:

- Quectel EG91-NA, Teltonika TM2500;
- GPRS Multi-Slot class 12 (Up to 240 kbps);
- SMS (text, data);
- Integrated GNSS receiver;
- Up to -165 dBm GNSS receiver sensitivity.

Hardware features:

- Built-in movement sensor;
- Built-in Bluetooth 3.0;
- Built-in Bluetooth 4.0;
- Internal High Gain GNSS antenna;
- Internal High Gain GSM antenna;
- 128 MB Flash (422 400 Records);
- 115 mAh Li-ion rechargeable 3.7 V battery.

Interface features:

- Power supply: +10...+30 V;
- CAN;
- K-LINE;
- USB port;
- OBD II;
- 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;
 - o 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

Part name	Physical specification
Navigation indication	LED
Modem indication	LED
OBD-II	Standard OBD-II connector

Technical details

GPRS: max 50 mA Nominal: average 35 mA 2 W max. GPS sleep: average 12 mA Current consumption at 12 V Deep Sleep: average 4.5 mA Average: 140 mA Battery charge current Rated: 250 mA -40 ... +85 °C Operating temperature (without battery) Storage temperature (without battery) -40 ... +85 °C Storage relative humidity 5 ... 95% (no condensation) Internal fuse 3 A, 125 V Device + case + battery weight 70 g

Dimension drawing:



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	115	0.43 - 0.45	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.

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Electrical characteristics

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

 $\begin{array}{ccc} \text{Input voltage} & & & \text{Supply} \\ \text{(Recommended Operating Conditions)} & 0 & & \text{voltage} \end{array} V$

Absolute maximum ratings

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