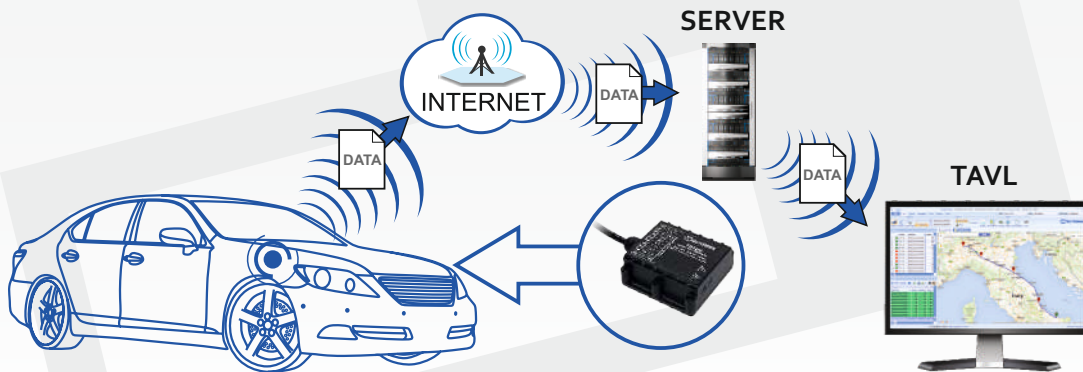




# FMA204

New generation small and professional Teltonika tracker with waterproof casing. Now equipped with innovative GNSS/GSM module and packed with set of new features and functions. FMA204 has internal high gain GSM and GNSS antennas and internal LiPo battery.



### New generation GSM/GNSS module

With new integrated GSM/GNSS module, your tracking experience will be better than ever before. Even higher sensitivity, faster than ever cold start and almost instant hot start ensures that your fleet will be tracked precisely.

### Waterproof (IP67) case

IP67 protection class means that device is waterproof and 100% protected against solid objects like dust or sand. Such casing allows you to mount tracker to water transport, motorcycle or other transport with trust.

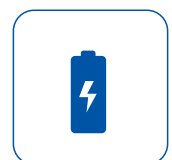


### 1-Wire®

1-Wire® protocol support enables you to identify your drivers and connect up to 4 temperature sensors. According to iButton® or RFID ID you can prevent unauthorized access to your fleet and temperature sensors allows you to monitor your cargo.

### Integrated battery

High capacity internal LiPo battery ensures long autonomous working hours, receive tracking data and warnings when main power source is disconnected.



## DESCRIPTION

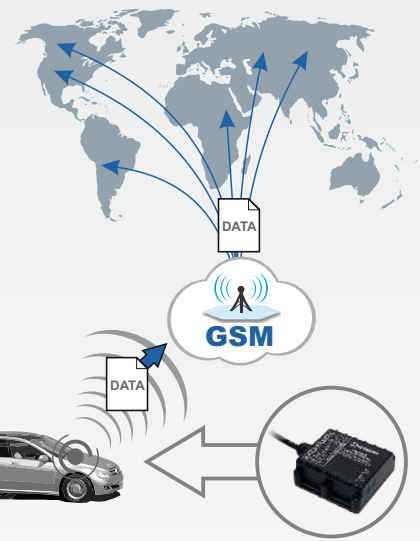
FMA204 small and professional tracker is Waterproof (IP67) with internal high gain GNSS and GSM antennas, which is able to collect device coordinates and other useful data and transfer them via GSM network to server. This device is perfectly suitable for applications where location acquirement of remote objects is needed: fleet management, water transport, motorcycle, car rental companies, taxi companies, public transport, logistics companies, personal cars and so on. FMA204 can perform tasks on remote objects, such as monitoring engine status, controlling truck's door etc.

## APPLICATION



## FEATURES

- Waterproof (IP67) case allow use device in place where is contact with water
- With new integrated GNSS module, your tracking experience will be better than ever before. Even higher sensitivity, faster than ever cold start and almost instant hot start ensures that your fleet will be tracked precisely
- Small and easy to mount case
- High gain internal GSM antenna and internal GNSS antenna allow mount FMA204 much easier
- Real Time tracking
- Smart data acquisition based on time, distance, angle, speed delta, ignition and I/O events allow to have precise online tracker
- Sending acquired data via GPRS (TCP/IP and UDP/IP protocols)
- Smart algorithm of GPRS connections for GPRS traffic saving
- Operating in roaming networks by preferred GSM providers list
- Add all your unwanted GSM operators to black list
- Events from I/O elements detection and sending via GPRS or SMS
- 5 geofence zones (rectangular or circle)
- Auto Geofencing created for car towing detection and car theft prevention
- Deep Sleep mode (less than 6 mA power consumption)
- Online Deep Sleep mode for constant connection with server
- Firmware and configuration update via GPRS (FOTA)
- 3 operational modes (Home, Roaming, Unknown) based on operator
- Time synchronization by NTP (Network Time Protocol) if GNSS signal is absent
- Integrated scenarios:
  - Over speeding to secure driver and prevent penalties
  - Immobilizer function
  - Authorized driving (1-Wire® iButton® ID keys up to 50 iButton® keys) is used to prevent stealing or driver identification
  - GSM Anti-jamming detection
  - Trip start and end detection



## SPECIFICATIONS

### GSM

- Quad-band 900/1800 MHz; 850/1900 MHz
- GPRS Multi-Slot Class 12 (up to 240 kbps)
- GPRS Mobile Station Class B
- SMS (text/data)

### GNSS

- Tracking: 33/ 99 acquisition channels
- -165 dBm sensitivity
- Hot start < 1s
- Warm Start < 25s
- Cold start < 35s
- NMEA-183 protocol
- GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
- Accuracy < 3m

### INTERFACE

- 3 Digital Inputs (1 reserved for Ignition Status Monitoring)
- 1 Configurable Analog Input (10V or 30V range) or DIN4
- 2 Digital Open-collector Outputs (connecting external relays, LED, buzzers etc.)
- 1-Wire® (iButton®, RFID, temperature sensors)
- Motion sensor
- Power supply (+6...+30) V DC
- Waterproof (IP67) case
- Internal high gain GSM antenna
- Internal high gain GNSS antenna
- Integrated 1800 mAh LiPo back-up battery
- Dimensions: L(72,5mm)xW(73mm)xH(27,3mm)
- 2 Status LEDs
- Micro USB Port

## ACCESSORIES



▶ USB to micro USB cable



▶ 1-Wire® temperature sensor (TTJ)



▶ RFID (1-Wire® interface) support



▶ 1-Wire® iButton® and iButton® reader



▶ Analog fuel sensor



▶ Door sensors



▶ Relay 12V/24V



▶ Alarm button



▶ LED



▶ Buzzer

