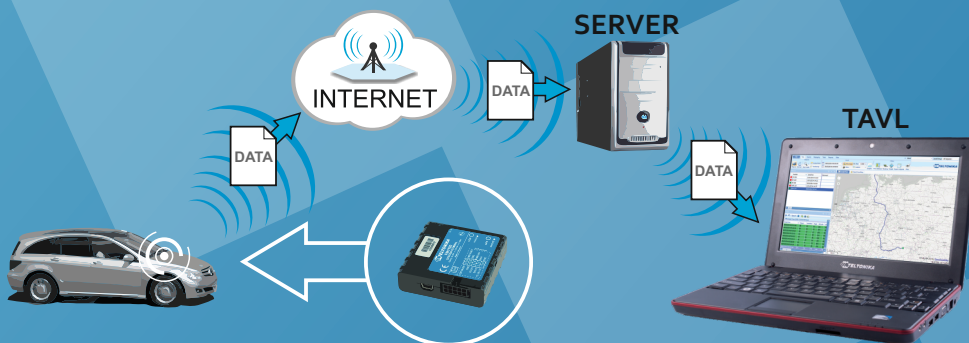# TELTONIKA

FM1100

Description

FM1100 is light realtime tracking terminal with GPS/GLONASS and GSM connectivity, 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, car rental companies, taxi companies, public transport, logistics companies, personal cars and so on.
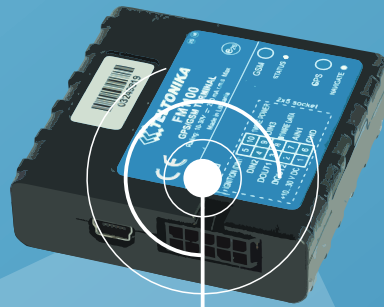
Applications

FM1100
Mounting Area

If You think, this is not enough to win ALL Your potential customers - please contact us to get advices how to use it in Your application!

INTERNET

DATA

SERVER

DATA

TAVL

DATA

ISO 9001

DNV
CERTIFIED
ORGANISATION

RoHS
Compliant

TELTONIKA

Accessories/features

- Fuel monitoring with analog LLS fuel sensors
- Ignition detection
- 1-wire Temp sensors
- 1-wire iButtons
- Door sensors
- Alarm button
- LED indication
- Buzzer
- Power saving

- Relay
  - Engine block
  - Starter block
- Trip detection
- Overspeeding detection
- Auto Geofencing
  - Detect car towing
  - Car theft prevention
- Driver identification

Features

- Small and easy to mount case
- RealTime tracking.
- Smart data acquisition - based on time, distance, angle, 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.
- Events from I/O elements detection and sending via GPRS or SMS.
- Scheduled 24 coordinates SMS sending when GPRS not available.
- 5 geofence zones (rectangular or circle)
  - Auto Geofencing crested for car towing detection and car theft prevention.
- Deep Sleep mode (less than 2 mA power consumption)
- FOTA (firmware updating via GPRS)
- 3 operational modes (Home, Roaming, Unknown) based on operator
- Integrated scenarios:
  - Over speeding to secure driver and prevent penalties
  - Authorized driving (1-Wire® iButton ID keys up to 50 iButton keys)use to prevent stealing or indicate drivers (depends on input/output hardware selection)
  - Immobilizer function
  - Trip start and end detection
- FM1100 supports a remote logs reading
  - FM1100 supports remote diagnostic logs functionality using GPRS. Possible issues resolving becomes faster. Manufacturer can read logs remotely using SMS/GPRS to diagnose the FM1100 and timely respond to the fault.
- FM1100 has large internal Flash memory (16MB)
  - The memory can save 50 000 records or up to 60 days data with the standard configuration
  - It is possible to disable data sending in Roaming and then device will store data in its memory till back to home area.
- FM1100 can be used without a GSM connection
  - Additional function – Offline data logging – allows to download acquired data from FM1100 to PC via cable and later to upload it to TAVL server. This functionality helps to avoid high GPRS bills caused by expensive roaming operators and keep acquired data save until it is downloaded to PC.

Specification

GSM

- Quad-band 900/1800 MHz; 850/1900 MHz
- GPRS class 10 (up to 85,6 kbps)
- SMS (text/data)

GPS/GLONASS

- NMEA, GGA, GGL, GSA, GSV, RMC, VTG protocol compatible
- 32 channel GPS/GLONASS receiver
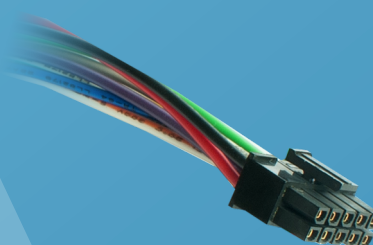- -161 dBm sensitivity

Interface

- 1 Digital Input Reserved for Ignition Status Monitoring
- 2 Digital Inputs
- 1 Analog Input (10V or 30V range)
- 2 Digital Open-collector Outputs (connecting external relays, LED, buzzers etc.)
- 1Wire® temperature sensor
- 1Wire® iButton
- Motion sensor
- Power supply (+10…+30) V DC
- USB Port
- Internal Flash memory – 16MB
- External GSM antenna (SMA connector) for higher sensitivity
- External GNSS antenna (MCX connector) for higher sensitivity
- Dimensions: L(61mm)xW(67mm)xH(14,5mm)
- 2 Status LEDs
- Configuration and firmware upload (FOTA and via cable)

Accessories

USB to mini USB cable

Main socket 2x5

Door sensors

Analog fuel sensor LLS-AF 20310
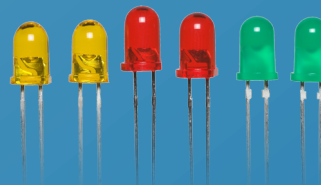
Alarm button

Relay 12V/24V

Relay
12V/24V

Buzzer

LED

LIGHT VEHICLES CAN ADAPTER
LV-CAN200

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