# TELTONIKA

# FM1000 ST

## Advanced Plug and play Tracker

ISO 9001

RoHS Compliant

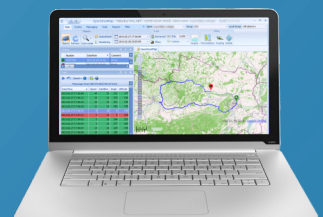DNV CERTIFIED ORGANISATION

## Description

FM1000 ST is an advanced plug and track realtime tracking terminal with GPS/GLONASS and GSM connectivity, which is able to collect device coordinates and other useful data including vehicle onboard computer data to 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, personal cars and so on. FM1000 ST connects directly to car OBDII connector for vehicle onboard parameters reading.
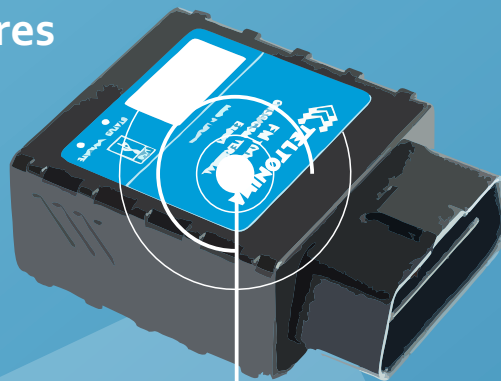
## Applications

**FM1000 ST**
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!

**FM1000 ST**　　　　　　**TAVL**

# TELTONIKA

## Accessories/features

- Engine coolant temperature*
- Engine RPM*
- Throttle position*
- Vehicle speed*
- Fuel level*
- Total distance*
- Average fuel consumption*
- More advanced OBD parameters*
- Excessing Idling detection

- Internal backup battery
- Trip detection
- Overspeeding detection
- Auto Geofencing
  - Detect car towing
  - Car theft prevention
- Power saving
- Jamming detection

* - data is available depending on vehicle's equipment, module, type and manufacture year

# Features

■ Plug and Track

■ Small and easy to mount case – directly to car OBDII connector

■ Internal GSM antenna and Internal GPS/GLONASS antenna allow mount FM1000 ST much easier

■ Real Time 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 created 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

   ■ Trip start and end detection

   ■ Jamming detection

   ■ Excessing Idling detection

■ Vehicle onboard parameters reading*


# 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, TXT protocol compatible

■ 32 channel GPS/GLONASS receiver

■ -162 dBm sensitivity

### Interface

■ 1 Digital Input Reserved for Ignition Status Monitoring (depends on vehicle type)

■ Accelerometer

■ Power supply (+10...+16) V DC

■ Integrated back-up battery

■ Internal High Gain GSM antenna

■ Internal High Gain GPS/GLONASS antenna

■ Dimensions: L(50,7mm)xW(49,6mm)xH(25mm)

■ 2 Status LEDs

■ USB Port

■ Configuration and firmware upload (FOTA and via cable )

* - data is available depending on vehicle's equipment, module, type and manufacture year
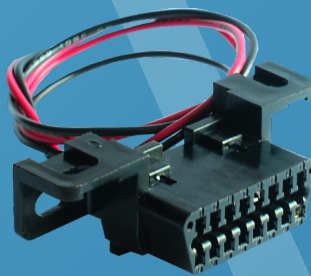
# Accessories

## USB to mini USB cable



## OBD Extension cable



## FM1000 ST adapter for power connection not from OBDII connector



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