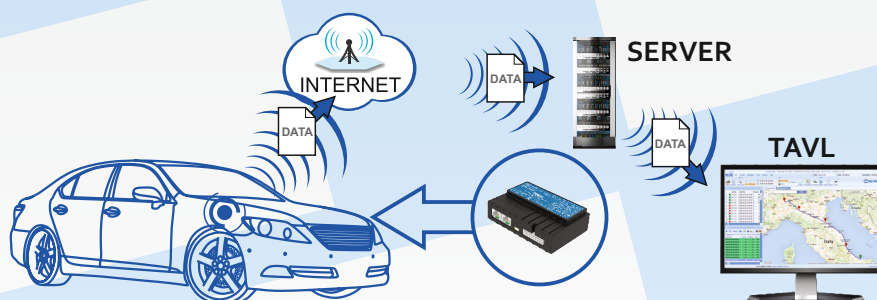




# FM6320

3G GNSS real-time advanced tracking terminal with high capacity backup battery and external 3G, GNSS antennas



## Dual SIM

Double GSM network reliability with Dual SIM! Even if your main SIM card fails to connect, FM6320 will stay online. Moreover, Dual SIM significantly reduces roaming costs, when using first SIM card for Home, second for Roaming data networks.

## Micro SD card

Don't lose any records with micro SD card up to 32 GB!

FM630 will store all data in micro SD card when driving in areas where 3G/GSM is not available.

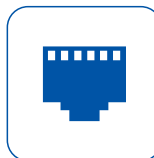


## Integrated tachograph solution

Integrated tachograph solution enables remote tachograph file (DDD, V1B, C1B or TGD format) download and live tachograph info acquisition without any additional adapter. Easier than ever connection – less integration time.

## RS232/RS485

RS232/RS485 functionality enables connection of third party devices like: multiple LLS sensors, GARMIN personal navigation device, RFID readers or some other RS232/RS485 devices.



## GNSS antenna disconnection detection

GNSS antenna disconnection detection will monitor the state of GNSS antenna. If any person cuts or disconnects the antenna, You will be immediately informed about such action.

## MVC300 - online photos

Online photo solution allows to receive photo to server from your fleet management devices. FM6320 device 3G feature allows to receive photo in less than 1 minute after event.



## J1708 CAN support

Read fuel data from heavy duty vehicles, from which fuel data reading was not possible before. J1708 CAN protocol ensures fuel data reading from Volvo and Renault heavy duty vehicles.

## DESCRIPTION

FM6320 is real-time advanced tracking terminal with GNSS and 3G/GSM connectivity with backup battery, which is able to collect device coordinates and other useful data and transfer them via 3G/GSM network. 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





























## FEATURES

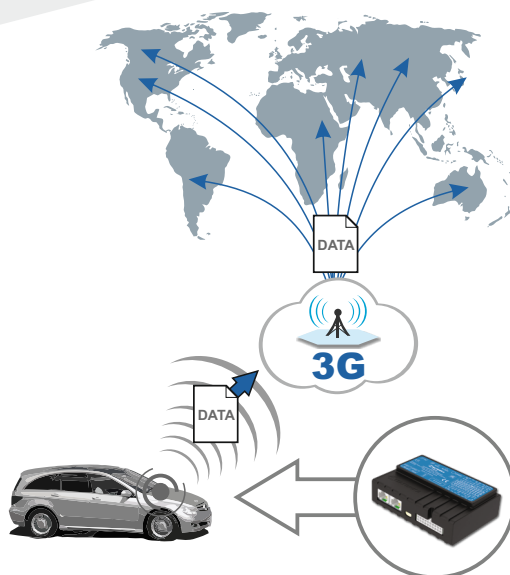
- ▶ Integrated 3G/GSM module for worldwide usage even in countries where only 3G is available. Controlled switching between 3G and GSM networks.
- ▶ Easy to mount and fasten firmly
- ▶ 2 LED indication
- ▶ Integrated Ni-MH back up battery
- ▶ Real – Time tracking
- ▶ External 3G/GSM antenna to ensure steady data stream while object is in low signal coverage areas
- ▶ External GNSS antenna for high quality tracking at all-time even when object is in complex areas – from closed/urban streets or canyons to dense forests
- ▶ Smart data acquisition based on:
  - ▶ Time
  - ▶ Distance
  - ▶ Angle
  - ▶ Speed difference (Value taken from GNSS or Teltonika Vehicle CAN adapters)
  - ▶ Ignition or any other I/O event
- ▶ Saving information to Micro SD card, preventing data loss after prolonged time under no 3G/GSM coverage
- ▶ Sending acquired data via 3G or GPRS (TCP/IP and UDP/IP protocols)
- ▶ Virtual Odometer
- ▶ K-Line interface for online Tachograph Vehicle Data transfer
- ▶ Dual CAN J1939 reading enables DDD data files to be downloaded remotely
- ▶ J1708 CAN reading interface
- ▶ RS485 and 2x RS232 interfaces for advanced Fuel Level tracking or usage of external devices such as Garmin, LLS, RFID reader, etc.
- ▶ Power saving in Sleep or Deep Sleep modes
- ▶ Authorized driving with up to 500 unique iButtons® ID list
- ▶ Time synchronization by NTP (Network Time Protocol) if GNSS signal is absent
- ▶ SMS sending/receiving via GPRS
- ▶ Time-zone (UTC/GMT) selection
- ▶ Dynamic SMS events
- ▶ Teltonika Vehicle Can Adapter
- ▶ Up to 32 GB microSD and reader for up to 275 million records
- ▶ MVC300 online photo solution, enables to download images from camera directly to server

## ACCESSORIES/FEATURES



FM6320

-  Fuel monitoring with LLS sensors
-  Ignition detection
-  Up to 4x 1-Wire® Temp sensors
-  1-Wire® iButtons®
-  Door sensors
-  LED indication
-  Buzzer
-  Internal backup battery
-  CAN interface
-  Remote Tachograph DDD file download
-  K – Line interface
-  RS485 and 2x RS232 for peripheral device support
-  GARMIN FMI support
-  Alarm button
-  Relay
-  Engine block
-  Starter block
-  Trip detection
-  Overspeeding detection
-  Auto Geofencing
  -  Detect car towing
  -  Car theft prevention
-  5x LLS support
-  RFID (RS232 and 1-Wire® interface) support
-  Four profiles
-  MVC300 online photo solution support



## SPECIFICATIONS

### GSM / GPRS / 3G FEATURES

- ▶ UMTS/HSPA+, GSM/GPRS/EDGE module
- ▶ UMTS/HSPA+ bands depending on module:
  - ▶ 800/850, 900, 1700, 1900, 2100 MHz (GLOBAL module)
  - ▶ 900 / 2100 MHz (EMEA / APAC module)
- ▶ GSM/GPRS/EDGE bands depending on module:
  - ▶ 850, 900, 1800, 1900 MHz (GLOBAL module)
  - ▶ 900, 1800 (EMEA / APAC module)
- ▶ HSPA+ data up to 21.0 Mbps downlink (GLOBAL module)
- ▶ HSPA+ data up to 5.76 Mbps uplink (GLOBAL module)
- ▶ HSPA+ data up to 7.2 Mbps downlink (EMEA / APAC module)
- ▶ HSPA+ data up to 5.76 Mbps uplink (EMEA / APAC module)
- ▶ UMTS uplink / downlink up to 384 Kbps
- ▶ EDGE uplink up to 236.8 Kbps, downlink up to 296 Kbps
- ▶ GPRS and EDGE class 33
- ▶ SMS (text, data)

### INTERFACE

- ▶ Dual CAN J1939
- ▶ J1708 CAN
- ▶ K-Line interface
- ▶ RS485 and 2x RS232 support
- ▶ 4 Digital Inputs for object status monitoring
- ▶ 4 Digital Open-collector Outputs (controlling external relays, LED, buzzers, etc.)
- ▶ 3 Analog Inputs
- ▶ 1-Wire® interface
- ▶ Ni-Mh 550 mAh internal battery
- ▶ MicroSD card
- ▶ 2 status LED
- ▶ Configuration and firmware update (via FOTA and USB cable)
- ▶ External GSM antenna for higher sensitivity
- ▶ External GNSS antenna for higher sensitivity

### GNSS

- ▶ NMEA, GGA, GGL, GSA, GSV, RMC, VTG protocol compatible
- ▶ 32 channel GNSS receiver
- ▶ -162 dBm tracking Sensitivity

## ACCESSORIES



- ▶ USB to mini USB cable



- ▶ 1Wire® temperature sensor (TTJ)



- ▶ RFID (RS232 and 1-Wire® interface) support



- ▶ 1-Wire® iButton® and iButton® reader



- ▶ GARMIN navigation



- ▶ CAN Interface



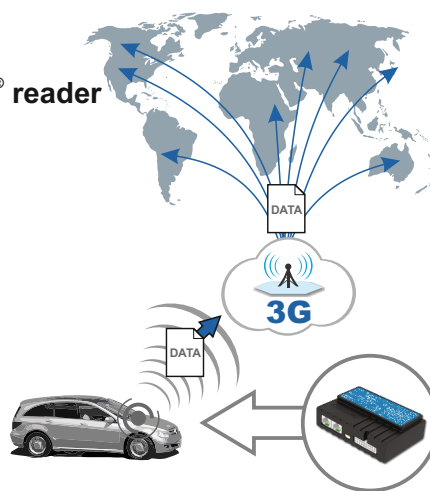
- ▶ Alarm button



- ▶ RS485 and 2x Rs232



- ▶ MVC300



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!

