



FM3600

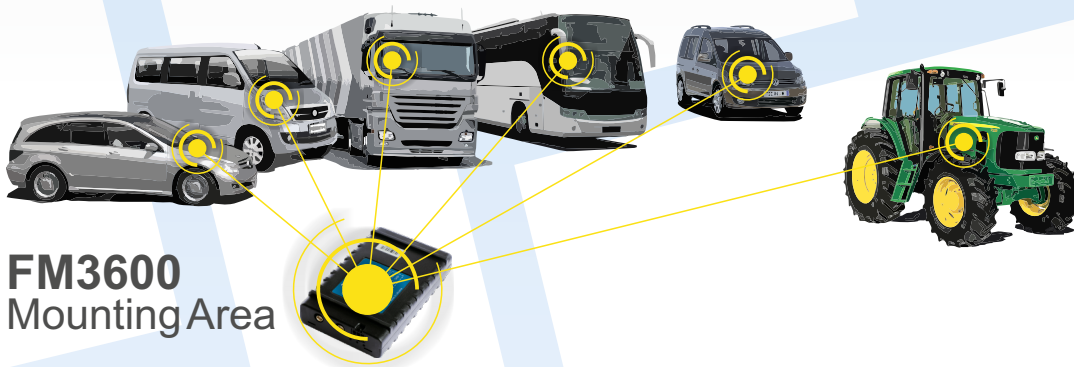
3G GPS/GLONASS

real-time tracking terminal with backup battery

DESCRIPTION

FM3600 is light real-time tracking terminal with GPS/GLONASS 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



FM3600
Mounting Area

















FEATURES

- ▶ Integrated 3G/GSM module makes this device usable worldwide, as there are countries which have only 3G network. User can choose if device will work only in GSM network, or will it prefer 3G network and switch to GSM only when 3G is absent
- ▶ Small and easy to mount case
- ▶ Real-time tracking
- ▶ Smart data acquisition - based on time, distance, angle, ignition and I/O events allow to have precise online track
- ▶ Sending acquired data via 3G or GPRS (TCP/IP and UDP/IP protocols)
- ▶ Smart algorithm of 3G or GPRS connections (GPRS traffic saving)
- ▶ Operating in roaming networks by preferred GSM providers list
- ▶ Events on I/O detection and sending via 3G, GPRS or SMS
- ▶ Scheduled 24 coordinates SMS sending when GPRS not available
- ▶ NTP time synchronization (in places where GPS is not available)
- ▶ 5 geofence zones (rectangular or circle)
- ▶ Auto Geofencing created for car towing detection and car theft prevention
- ▶ DeepSleep mode (less than 4 mA power consumption)
- ▶ FOTA (firmware updating via GSM/3G)
- ▶ 3 operational modes (Home, Roaming, Unknown) based on operator
- ▶ Integrated scenarios:
 - ▶ Over speeding to secure driver and prevent penalties
 - ▶ Trip start and end detection
 - ▶ Authorized driving (1-Wire® iButton ID keys up to 500 iButton keys) use to prevent stealing or indicate drivers*
 - ▶ Immobilizer function*



FM3600

ACCESSORIES/FEATURES

-  Ignition detection
-  Door sensors
-  LED indication
-  Buzzer
-  Internal backup battery
-  Alarm button
-  1-wire Temperature sensor*
-  1-wire iButtons*
-  Relay
 -  Engine block
 -  Starter block
-  Trip detection
-  Overspeeding detection
-  Auto Geofencing
 -  Detect car towing
 -  Car theft prevention

SPECIFICATION

GSM / GPRS / 3G features

- ▶ UMTS/HSPA+, GSM/GPRS/EDGE module
- ▶ UMTS/HSPA+ bands:
 - ▶ 800/850/900/1900/2100 MHz
 - ▶ HSPA+ uplink up to 5,76 Mbps, downlink up to 14,4 Mbps
- ▶ UMTS Uplink/Downlink up to 384 Kbps
- ▶ EDGE Uplink/Downlink up to 236,8 Kbps
- ▶ GPRS and EDGE class 33
- ▶ SMS (text, data)

GPS/GLONASS

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

* - Available on C2 hardware modification



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!

Interface

- ▶ 10 – 30 V input
- ▶ C1 hardware modification:
 - ▶ 1 Digital Input
 - ▶ 1 Universal Digital/Analog input
 - ▶ 2 Digital outputs
- ▶ C2 hardware modification:
 - ▶ 1 Universal Digital/Analog input
 - ▶ 1-Wire interface
 - ▶ 1 Digital output
- ▶ Internal backup battery
- ▶ 3 Status LEDs
 - ▶ Navigate
 - ▶ Status
 - ▶ Modem
- ▶ Internal USB Port
- ▶ Configuration and firmware upload (FOTA and via USB cable)
 - ▶ External GSM antenna (SMA connector) for higher sensitivity
 - ▶ External GNSS antenna (MCX connector) for higher sensitivity