TELTONIKA

FM5500

GLONASS/GPS/GSM/GPRS
Terminal with two RS232 and RS485 interface

Description

FM5500 is advanced terminal with GLONASS/GPS positioning and GSM connectivity, which is able to get device coordinates and other data and transfer them via GSM network. This device is perfectly suitable for applications where location acquirement of remote objects is needed. So you can track your remote objects (trucks, cars etc) quickly and easily.
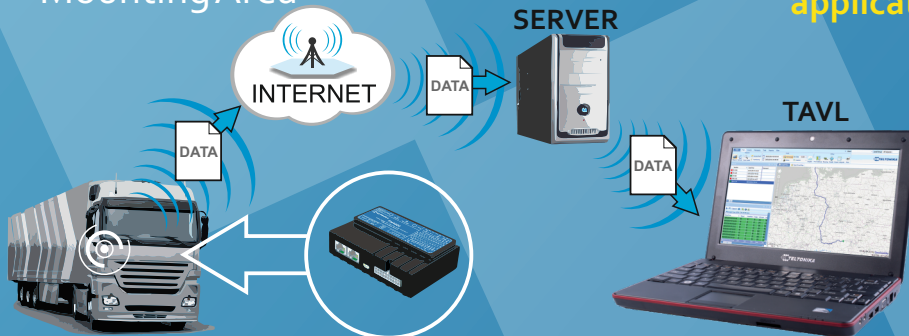
In case of losing connection FM5500 can store up to 150,000 records, and once the connection is established the device will send stored data via GPRS. So you won't lose your data (coordinates, sensors data and ect.).
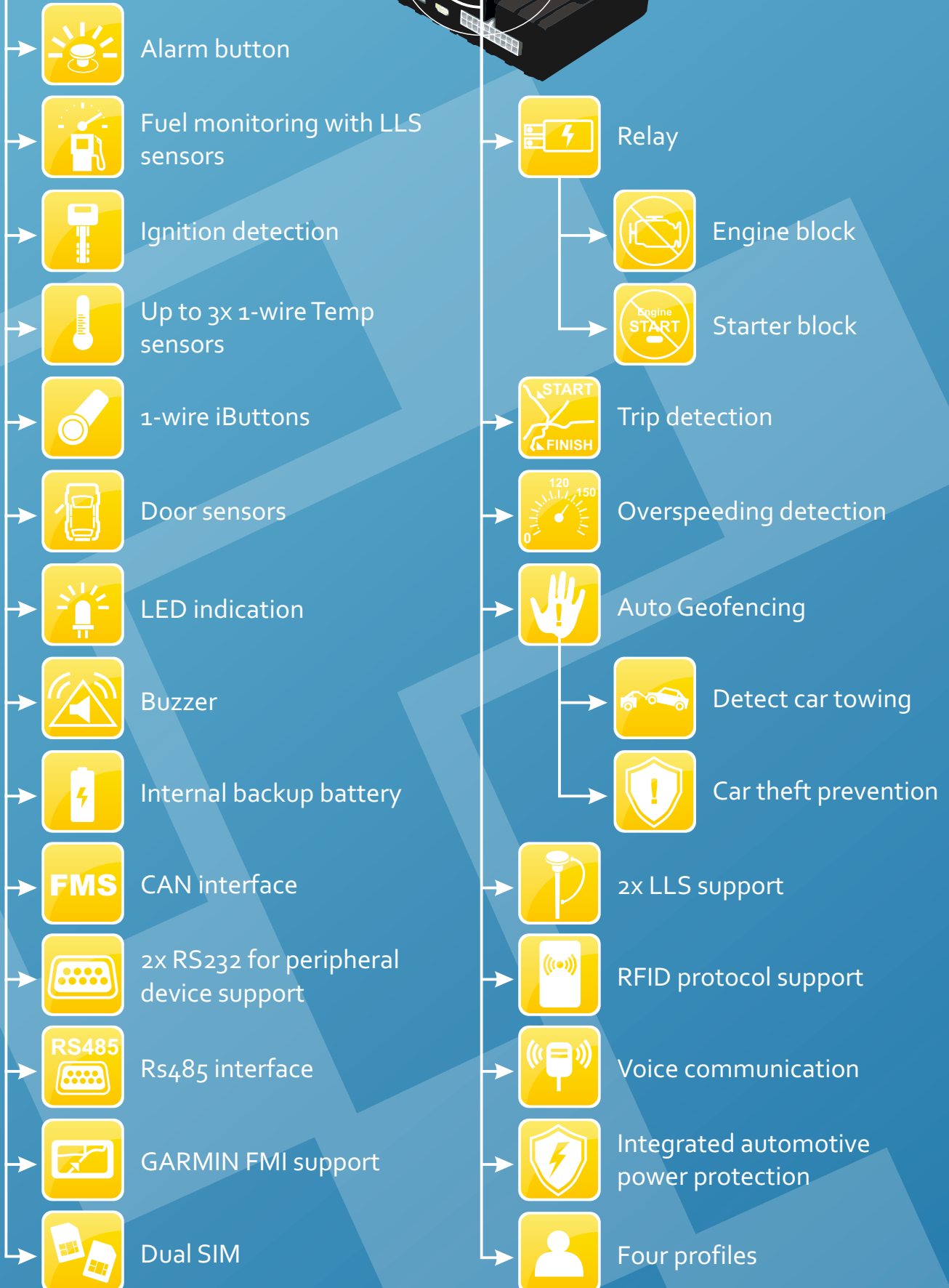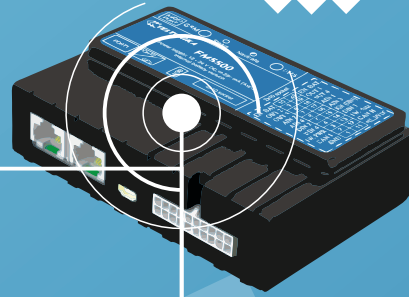
Applications

FM5500
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

RoHS Compliant

DNV CERTIFIED ORGANISATION

TELTONIKA

Accessories/features

- Alarm button
- Fuel monitoring with LLS sensors
- Ignition detection
- Up to 3x 1-wire Temp sensors
- 1-wire iButtons
- Door sensors
- LED indication
- Buzzer
- Internal backup battery
- **FMS** CAN interface
- 2x RS232 for peripheral device support
- **RS485** Rs485 interface
- GARMIN FMI support
- Dual SIM

- Relay
  - Engine block
  - Starter block
- Trip detection
- Overspeeding detection
- Auto Geofencing
  - Detect car towing
  - Car theft prevention
- 2x LLS support
- RFID protocol support
- Voice communication
- Integrated automotive power protection
- Four profiles

Features

- 2 SIM Compatibility
- Up to 150,000 records can be stored on flash memory
- GPS/GLONASS coordinates and I/O data acquisition
- Real Time tracking
- Smart algorithm of data acquisition (time, distance, angle, ignition and event based)
- Sending acquired data via GPRS (TCP/IP and UDP/IP protocols)
- Smart algorithm of GPRS connections (GPRS traffc saving)
- Operating in roaming networks (configurable GSM providers list)
- Events on I/O detection and sending via GPRS or SMS
- Scheduled 24 coordinates SMS sending
- Deep Sleep mode (saving vehicle's battery)
- FOTA (firmware updating via GPRS)
- Accelerometer
- Four different profiles
- 20 geofence zones (rectangular or circle)
    - AutoGeofencing created for car towing detection and car theft prevention
- Small and easy to mount case
- Roaming dependent operation (GPRS traffic saving in roaming zones)
- Acceleration detection (harsh breaking, acceleration and cornering)
- Offline tracking
- Operation mode presets
    - Advanced overspeeding detection
    - Driver behavior monitoring (acceleration/breaking/cornering notifications to minimize vehicle exploitation costs)
    - Driver identification (1-Wire® iButton ID key)
- GPRS commands
- Voice communication
- RS232 peripherial device support:
    - GARMIN FMI support
    - 2x LLS support
    - RFID protocol support
- RS485 interface
- FM5500 has large internal Flash memory (16MB)
    - The memory can save up to 150000 records 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.
- FM5500 can be used without a GSM connection
    - Additional function – Offline data logging – allows to download acquired data from FM5500 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
- FM5500 supports a remote logs reading
    - FM5500 supports remote diagnostic logs functionality using GPRS. Possible issues resolving becomes faster. Manufacturer can read logs remotely using SMS/GPRS to diagnose the FM5500 and timely respond to the fault

Specification

GSM/GPRS

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

GPS/GLONASS

- NMEA-0183, GGA, GGL, GSA, GSV, RMC, VTG protocol compatible
- 32 channel receiver
- -162 dBm sensitivity

Interface

- 4 Digital Inputs for object status monitoring
- 4 Analog Inputs (switchable 10 V or 30 V range, 12 bit resolution)
- 4 Digital Open-drain Outputs (controlling external relays, LED, buzzers, etc.)
- 1-Wire® interface protocol
- CAN interface
- Power supply (+10...+30) V DC
- 2 Status LEDs
- USB interface
- 2x RS232 port
- RS485 interface
- Configuration and firmware update (FOTA and via USB cable)
- External GSM antenna
- External GNSS antenna
- Optional internal (or external) rechargeable NiMh battery with charge controller
- Voice interface (RJ11)
- Integrated automotive power protection, compatible with ISO 7637-2 standard
- Dimensions: L(104,1mm)xW(76,8mm)xH(31,5mm)
- Movement sensor

Accessories

USB to mini USB cable

1Wire® temperature sensor (TTJ)

1Wire® iButton and iButton reader

RFID

RF/ID Reader

GARMIN navigation

Dispatch   View Map

GARMIN nüvi   Volume   Tools

CAN Interface

Alarm button

Voice communication

Rs232

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