ERM
Advanced Telematics

V:2.2


# Device for Tracking Jammed Vehicles

The **StarLink eConnect** invention provides a novel solution for tracking jammed vehicles that are using the GSM network. **The SrarLink eConnect** facilitate real time GSM/RF communication networks, enabling redundant communication for vehicles where the positioning system on board the vehicle is jammed.

The **StarLink eConnect** invention is adapted for monitoring the operation of GSM network and the GPS positioning network to detect / determine whether they operate properly and/or whether a failure occurs in one of these services / networks, preventing the communication of vehicle data to the control center.

Once the **StarLink eConnect** identifies jamming has occured, it transmits a distress message with information regarding the device ID, speed and heading. The information recieved is being picked-up by nearby vehicles, which forward the distress signal to the control center for further action.

The **StarLink eConnect** provides a robust, practical and cost-effective solution, which can be implemented within the vehicle-tracking-systems that are installed by the security service provider providing the vehicle tracking services, while without the need for modifications or adaptations of external services / systems, such as those associated with the cellular and/or other communication networks.

**StarLink eConnect offers:**

- Low power consumption
- GSM jamming detection
- Memory logger for 10,000 events
- Highly configurable functionality
- Easy installation
- FOTA (Firmware Over The Air) upgrade

## Key Features:

- 2G/3G cellular communication
- Low power consumption
- Built-in battery backup
- Internal GSM and GPS antennas
- Built-in movement sensor
- Location (periodic/on demand)
- GPRS and/or SMS messaging
- GSM jamming detection
- Driver ID: Up to 500 drivers
- SMS paging including location coordinates for self-tracking
- OLP (Output Logic Programming) for complex output signal
- GeoZone protection
- Towing alert
- Speed limit alert

**Manage your fleet**
in a different way

# StarLink eConnect

## The Ultimate Anti-Theft and Tracking Solution

# Technical Specifications

### Hardware

| | |
|---|---|
| Cellular | **2G -** GPRS Quad-Band 900/1800/850/1900<br>or<br>**3G -** GPRS/UMTS/HSDPA Dual-Band US850/1900 or EU900/2100 + Optimized antenna |
| Location | MTK chipset, 99 channels, GPS/GLONASS, Active antenna, Sensitivity -165 dB, NMEA0183<br>acquisition (normal): cold 34s, warm 34s, hot 1s, accuracy: 2.5m CEP + Embedded optimized antenna |
| Communication | TCP/IP over GPRS/UMTS/EDGE/HSPA, text messages, Two-Way ISM band RF Transceiver (915Mhz) |
| Accelerometer | Internal 3 axis accelerometer, +/- 8G Acceleration sampling rate: 10 m/sec |
| Connectors | 10-pin Molex connector |
| I/O ports | 2 general use, Additional I/Os with external HUB / junction box |
| Dedicated port | Ignition port, one wire data wire for ERM accessories (eNet protocol) |
| Analogs ports | 2 inputs using an external adaptor 0-12V and 0-5V (optional using EDA Analog) |
| Power Supply | 9-32VDC, 20-30mA, Low power mode (GPS off) < 10mA, Power save mode (Standby) < 2.5mA (average) |
| Back up battery | Rechargeable, 3.6V, 650mAh (Li-Poly or Li-ion), |
| Car interface | Ignition On/Off, Engine On/Off (by voltage), CANBUS (optional using eData/CANalog/eCAN) |
| Configuration/ Firmware Update | OTA/Via Standard PC USB Port, parameters setup, software programming |
| Data Logger | 10,000 messages |

### Environment

| | |
|---|---|
| Operating temperature | -20 to 70°C |
| Storage temperature | -40 to 85°C |
| Dimensions | 7.3cm x 4.7cm x 2.9cm |
| Weight (NET) | 65g |
| Durability | Water and vibration resistance |
| Max. relative humidity | 90+/-5% |
| Certifications | CE, FCC, PTCRB, IC |

### Software tools and application

| | |
|---|---|
| StarLink Monitor: | local raw data monitor and configuration |
| Message Builder: | StarLink configuration builder for diagnostic |

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