TECHNICAL SPECIFICATION

GSM module	
Module	u-blox Leon G-100 (850/900/1800/1900 MHz)
GSM antenna	yes, built-in
GPS module	
Module	u-blox MAX-6
Channels	50
A-GPS online/offline support	YES
Position accuracy	< 2.5 m
TTFF hot start acquisition time	< 1 s avarage
TTFF cold start acquisition time	< 27 s avarage
GPS antenna	yes, built-in
Electrical characteristics	
Power supply 12V / 24V	12V / 24V
Battery Li-Ion, 2600 mAh	Li-Ion, 2600 mAh
Battery working time in sleep mode (GPS position twice per day) 35 days	35 days
Physical characteristics	
Casing protection rating	IP67
Dimensions (HxWxT)	120x80x41 mm
Weight	~ 280 g
Motion sensor	
3-axis motion sensor (accelerometer)	yes
General features	
Built-in GSM & GPS antenna	yes
Ambient operating temperature	-20°C to +60°C
Data transmission	via GPRS (TCP, IP), SMS to OSM.2007
Administration & firmware update	remotely
Configuration	
Local	PC through RS232 link (LX cable and AGP3 programmer required)
Remote	via GPRS, SMS, CSD
Events buffer	
Alarm events buffer size 1000	1000
Quantity of system events stored in history 2000	2000

ACTIVE TRACK TRAILER
ACTIVE TRACK
ON-LINE AND ON-EVENT GPS
FLEET AND ASSET TRACKER

EBS CREATING A SENSE OF SECURITY
SINCE 1989

BUSINESS CASE

With the development of transport and logistics come problems, contrary to appearances. It is not easy to deal with. Logistics companies handle more orders, and increase their fleet by another semi-trailer, which run on the roads of Europe. Here the problem of their location arises. More and more companies are not able to determine exactly where their equipment is at a particular time. This is due not only to their range of activities, but also because currently only the cars are monitored. Trailers are handled and transshipped without any control. This problem plagues many companies, causing losses and generates costs related with additional workplaces, courses and downtime.

FEATURES & BENEFITS

- More efficient planning and overseeing route implementation based on GPS and GSM
- Two reporting modes
  - Online – message sent if time, distance or angle is qualified
  - On-event – device wakes up every e.g. 12h or when movement is detected
- A-GPS receiver – gets position fast even if GPS signal is poor
- 12V/24V Power supply
- Operates more than one month on single charging
- Embedded GSM and GPS antenna
- Only power is needed to be connected
- Battery which can be charged below 0 ℃
- Supported by application
- Possible integration with other software

SOLUTION DESCRIPTION

Our solution allows you to track movements in real time based on geographical coordinates. With the A-GPS service you can determine the exact location in an environment where the GPS signal is weak; it is not only possible, but also more precise.

A-GPS uses the GSM / GPRS network to obtain information on the position of the satellites, which allows you to specify the position even when the GPS signal is poor.

The durable casing and built-in accelerometer are designed to protect and inform you about attempts to destroy and sabotage.

In addition, **ATT** is equipped with a battery which it will work in sleep mode for 35 days.

⊕ MAIN FUNCTIONALITIES

- **A-GPS (Assisted GPS)**
  Allows both outdoor & indoor tracking; aids by delivering satellite data such as accurate time and satellite status to the GPS receiver. This aiding data enables the GPS receiver to compute a position within seconds, even under poor signal conditions. It helps in emergency situations, in rough environments.
- **GeoFencing**
  Tracking and monitoring position of GPS users with automatic alarm signal if the user crosses the boundary of predetermined zone. Effective solution e.g. for child protection.
- **Tamper detection alert**
  Excessive shock detection - notification about all mechanical attempts to destroy the device. Tamper switch – protection against opening the device by unauthorized person.
- **Application traffic monitoring on-line**
- **Convenient web application that allows on-line access from almost anywhere**
- **Online, real time tracking and history**
  Online internet application for tracking GPS location.
- **Large memory capacity**
  Built-in memory for registering up to 2000 events in history; allows collecting information about alarm signals, voice / sms connections and the route registered by GPS.
- **Programming buttons for sending SMS alarm**
- **Configurable frequency and size of sent data**
- **Can be extended with new functionalities**
- **Independent power supply**
  Own battery charged while driving sufficient even for 35 days.

⚙ MAIN FEATURES OF THE DEVICE

- special firmware version with a sleep mode/energy saving function,
- battery with increased performance,
- built-in 12/24V power adapter,
- hermetically sealed, industrial-grade, IP67-rated casing,
- integrated GSM and GPS antennas,
- A-GPS support to improve GPS performance,
- sabotage alarm activated by shocks or during attempts to open the device,
- configurable data transmission frequency and range,
- radio receiver for remote control (optional),
- additional output (optional).