FOX LITE®

Main functions

- **Satellite vehicle locating, tracking and mapping in real-time using PC or mobile phone**
- **Automatic monitoring of vehicle statuses and important events, and reporting by GPRS and SMS**
- **Immediate alarming about critical status and emergency events**

Fox Lite is AVL (Automatic Vehicle Location) device enabling satellite vehicle monitoring and supervision of its status, defined parameters, measurement and detection of important events.

Vehicle data are transferred through mobile telecommunication network (GPRS/EDGE/UMTS/HSPA) and Internet enabling the user to track and control his vehicles at any moment. It is designed for private or professional use, for monitoring of only one vehicle or the whole fleet of vehicles.

Monitoring is performed by computer or mobile phone connected to Internet. Device configuration can be done remotely through SMS messages and GPRS service, or locally using serial port. Expense optimization of mobile network traffic is achieved by double set of parameters for device operation in local network and roaming.

SYL-BA164

OG-HT680

PRY-TF178

MKT-AK876

SLS-AK178

FUEL

RPM

CAN/FMS

Garmin

iButton

RFID

SMS ALERT

CAR security

CRASH DETECT.

SOS

OBD II

GEO FENCE

FOX LITE
GSM   PWR   GPS

FOX LITE®

AUTOMATIC VEHICLE LOCATION DEVICE

Functional features

- Satellite vehicle monitoring using GPS or GLONASS
- Configurable smart algorithm for position data sending
- Sending events caused by digital inputs or changes in statuses of the vehicle
- Instant data transfer on vehicle position and statuses on user request
- Sending events in real time, or logging and sending data at predefined time period or at predefined time of the day
- SMS alerts
- Calculation of distance travelled by vehicle and sending this information together with position data
- Calculation of vehicle maximum speed
- Driver identification using iButton
- Driver identification using RFID card
- C-Drive information
- Shock/acceleration sensor. In power save mode, shock/acceleration sensor detects mechanical shock and wakes up device from power save mode. In normal operation mode it detects vehicle crash event and obtain C-Drive information
- Vehicle engine RPM measurement
- Vehicle fuel level control using analog and digital sensors
- Vehicle fuel consumption control using fuel flow meter
- Temperature measurement using additional Geneko temperature sensors
- Connecting to vehicle CAN or FMS bus (using additional interface devices)
- OBD II connectivity using Geneko OBD II interface
- Geofence. Device can store up to 70 rectangular or round zones
- Engine/ignition blocking with remote command – immobilizer
- Panic taster (panic event sending by GPRS and SMS)
- Private/Business drive switch

Other features

- Logger capacity more than 60.000 records
- Backup server IP address
- XML, binary and auth+ack binary sending formats
- Connecting external GARMIN navigation and communication device
- Navigation option by external PC, Laptop or PDA
- Smart phonebook with special functions of some numbers
- Remote device parameters setup, device management, debug and firmware update ability (OTA)
- Parameter (device configuration) backup in SIM card memory
- Test sequence on debug port
- Device parameters configuration via serial port
- Advanced power save function
- Internal battery for operation without external power supply
- Vehicle battery monitoring and over-discharge protection

QMS
ISO 9001:2015

ISMS
ISO/IEC 27001:2014

CE certified

Technical specifications

Operating system	Real time operating system
2G model	**GSM/GPRS module** Quad Band - GSM 850/900/1800/1900 MHz GPRS Multi-slot class 12 Transfer rate: GPRS – DL: Max. 85.6 Kbps, UL: Max. 85.6 Kbps Sensitivity: -109 dBm at 850/900 MHz
3G model	**UMTS/HSPA module** Dual band GSM 900/1800 MHz, Dual band UMTS 900/2100 MHz Transfer rate: • HSUPA Max. 5.76 Mbps, HSDPA Max. 7.2 Mbps • UMTS – DL: Max. 384 Kbps, UL: Max. 384 Kbps • EDGE – DL: Max. 236.8 Kbps • GPRS – DL: Max. 85.6Kbps, UL: Max. 85.6Kbps *Important note: All DL/UL speeds are given as speeds defined by standards. Actual speeds may vary and are not guaranteed.*
SIM slot	Mini-SIM (2FF)
GPS/GLONASS module	
Channels	Acquisition: 99, Tracking: 33, PRN: 210
Fast TTFF at low signal levels	
Sensitivity	Reacquisition: -161 dBm, Tracking: -167 dBm
Position/speed accuracy	2.5 m CEP
Augmentation	AGPS, SBAS (including WAAS, EGNOS, MSAS and GAGAN)
External power supply	9 - 36 VDC
Input protection	Over-current, reverse polarity, over-voltage, under-voltage, transients, EMI
Integrated battery	Li-Ion, 3.7 V / 950 mAh; over-discharging, over-current, over-voltage protection
Charging temperature range	0°C to +50°C
Operating temperature	-40°C to +85°C
IP rating	IP40
Housing	ABS
Dimensions (WxDxH)	86 x 76 x 24 mm
Weight	95 g

7 Multifunctional inputs/outputs
- Up to 6 digital inputs (one is reserved for ignition detection)
- Up to 2 digital outputs
- Up to 3 analog inputs (one is reserved for vehicle accumulator measuring and monitoring)
- One 1-Wire Bus port
- One serial port RS-232
- One USB port 2.0

Serial port
- Connecting external devices
- Device parameters setup
- System log read
- Debug information read
- Firmware update
- Position data (NMEA) output for external device (PC, PDA...)

Low power consumption
- Typical consumption at 12 VDC (GPS ON, GSM ON): 40 mA