FALCOM
WIRELESS COMMUNICATIONS GMBH

FOX-LT-IP

Automotive Vehicle Location solution (AVL)

- High Sensivity Satellite Navigation (50 channel u-blox 5 engine)
- AGPS capable
- Communication via Quad Band GSM
- SMS, Data, GPRS, TCP/IP, Email
- IP68 proof (DIN EN60529) casing
- User configurable
- Thief Alert / Motion Detection
- Online Tracking
- Fleetmanagement
- Car Security and Recovery
- Drivers Logbook/History
- Territory Management / Geofencing
- Remote administration & firmware update
- Fully approved (CE, e1, FCC)
- Options: Backup Battery
  CAN / FMS interface

The FALCOM FOX-LT-IP

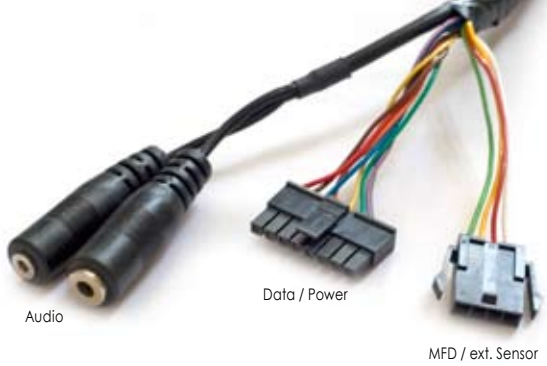
is a free configurable smart tracking device which can be fully adapted to user requirements. Its main purpose is to act as a mobile client for various system solutions like AVL, fleet management, vehicle security and recovery. The device can operate fully autonomous and is able to interact using sensors and actors.
It can be adapted to existing tracking solutions and can be easily configured to gather or exchange relevant information with servers or users directly. An often used example is to send status reports or verbose alert messages directly via SMS to users and/or via TCP to tracking servers.

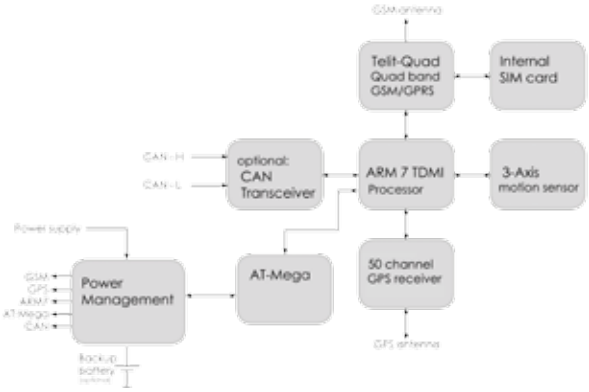
Users benefit most from combining comfort and security aspects – for example having regular voice calls as well as spy calls in emergency cases. Drivers logbook and data logging functionalities are combined in the history feature.
Geofencing can be used to report violations of predefined routes or areas (for example if a car enters or leaves a specific area/no-go-zones).

All of these features are perfectly integrated in a device concept which significantly reduces time-to-market and provides low cost tracking and security solutions.

Software features

- PFAL commands for full control
- Intelligent and flexible alarm system, suitable for most applications
- Customizable device messages
- Easy to combine with most digital and analogue sensors
- Drivers Logbook / History
- Geofence, distance calculation
- Trip management
- Local and remote communication
- Optional
  - Encrypted communication
  - Security authentification
- Remote access
  - Status reports / tracking
  - Commands
  - Configuration
  - Firmware update

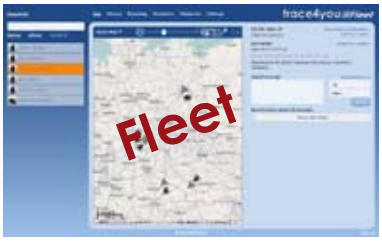




Applications

- Real time online tracking
- Fleet management / monitoring
- Security / emergency services
- Real time satellite navigation
- Territory management
- Personalized drivers logbook
- Route verification
- Trip management / distance calculations
- Theft protection
- Toll collection / pay as you drive
- Compatible with FALCOM Trace4you Server solution

trace4you



Technical specification

GSM core	Physical characteristics
TELIT GE864-Quad module	Dimensions (DxH): 210 x 40 (75) mm
850/900/1800/1900 MHz	Weight: approx. 310 g
GPRS class 10, class B	
TCP/IP (accessible via PFAL commands)	**Temperature range****
	Storage: -40 °C to +90 °C
GPS core	Operating: -40 °C to +85 °C
50 channel u-blox 5 engine	GSM: -30 °C to +80 °C
A-GPS online/offline support	
Protocols: NMEA, GGA, GGL, GSA,	Battery option: -20 °C to +60 °C
GSV, RMC, WGS-84	Charging: 0 °C to +45 °C
Accuracy: Position < 2.5 m	Discharging: -20 °C to +60 °C
SBAS < 2 m	
Acquisition: TTFF hot start: < 1 s average	**Motion sensor**
TTFF warm satart: < 29 s average	3 axis motion sensor
TTFF cold start: < 29 s average	
Sensitivity: Acquisition: -160 dBm	**Interfaces**
Tracking: -160 dBm (12 dBHz)	4 IOs: • 3 configurable digital/analoge inputs
Cold start: -144 dBm	with open collector output (100 mA)
Limits: Velocity: 500 m/s (972 knots)	(2 are used for CAN feature)
Altitude: 50.000 m	• 1 digital input (IGN)
	RS232 (RX,TX V24 level) / RS232 TTL
Processor core	SIM card reader for 1,8/3 V SIM cards
ARM7/TDMI	CAN/FMS* (up to 1 Mbps)
8 MB Flash / 2 MB RAM	
	Antennas
Electrical characteristics	internal antennas
Power: +10,8 V to +32 V DC	
Backup battery*	

* optional available
** extreme temperatures can affect device performance.

Note: Specifications and information given in this document are subject to change by FALCOM without notice.
For latest product information see www.falcom.de

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