

# FOX

 **FALCOM**  
WIRELESS COMMUNICATIONS GMBH

## Automotive Vehicle Location solution (AVL)

High Sensivity Satellite Navigation (50 channel u-blox 5 engine)

Communication via Quad Band GSM

SMS, Data, GPRS, TCP/IP, Email

Fully customizable behaviour

Autonomous operation

Car Security and Recovery

Thief Alert / Motion Detection

Online Tracking

Internal antennas

Drivers Logbook/History

Territory Management / Geofencing

Remote administration & firmware update

Fully approved ( FCC, PTCRB, e1, CE )

Options: IP65 proof (DIN EN60529) seal

Backup Battery

SD Card Interface

CAN Interface



### The FALCOM FOX

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.

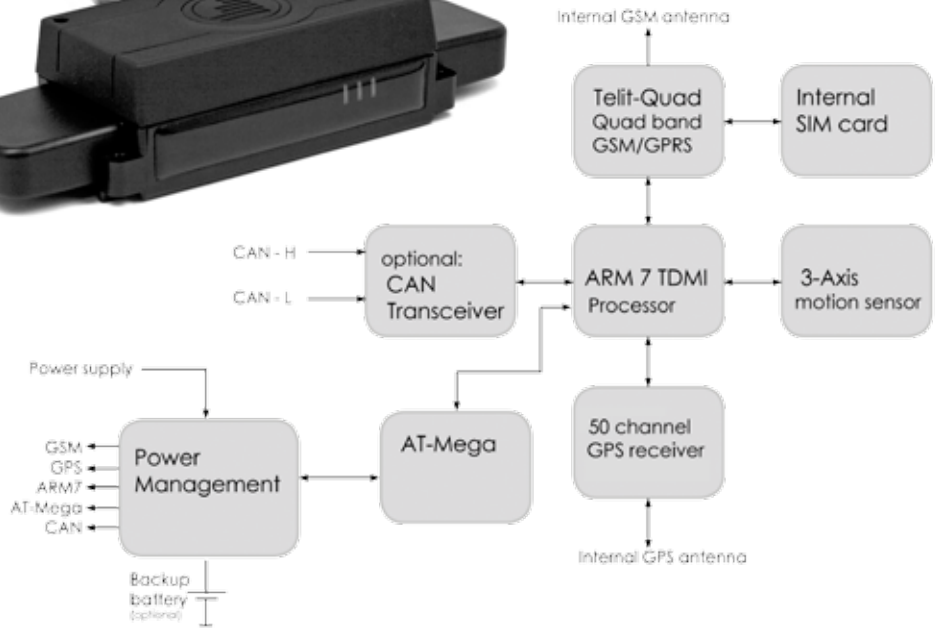
Users benefit most from combining comfort and security aspects – for example having regular voice calls as well as spy calls in emergency cases. Drivers logbook and data logging functionalities are combined in the Falcom history feature.

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

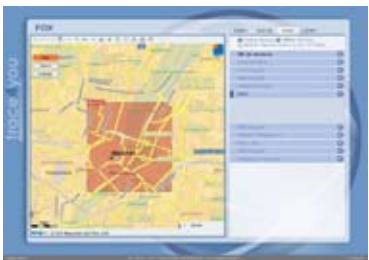
- PFAL commands for full control
- Intelligent and flexible alarm system, suitable for most applications
- Customizable device messages
- Easy to combine with most digital and analogue sensors
- Drivers Logbook / History
- GeoFencing, distance calculation
- Trip management
- Local and remote communication
- Optional
  - Encrypted communication
  - Security authentication
- 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

<b>GSM core</b>	<b>Temperature range**</b>
TELIT GE864-Quad module	Storage: -40 °C to +90 °C
850/900/1800/1900 MHz	Operating: -40 °C to +85 °C
GPRS class 10, class B	GSM: -30 °C to +80 °C
TCP/IP (accessible via PFAL commands)	Battery option: -20 °C to +60 °C
<b>GPS core</b>	Charging: 0 °C to +45 °C
FALCOM 50 channel GPS receiver	Discharging: -20 ° to +60 °C
A-GPS online/offline support	
u-blox 5 engine	<b>Motion sensor</b>
Protocols: NMEA, GGA, GGL, GSA, GSV, RMC, WGS-84	3 axis motion sensor
Position accuracy: < 10 m CEP without SA	<b>Interfaces</b>
TTF hot start: < 1 s average	4 IOs
TTF cold start: < 42 s average	• 3 configurable inputs digital outputs
Tracking sensitivity: -159 dBm (13 dBHz)	(2 are used for CAN feature)
	• 1 digital input (IGN)
<b>Processor core</b>	RS232 (RX,TX V24 level)
ARM7/TDMI	SIM card Reader for 1,8/3V SIM cards
Memory: 2 MB / 512 kB	Speaker, Microphone*
	3 programmable LEDs
<b>Electrical characteristics</b>	SD card interface*
Power: +10,8 V to +35 V DC	
Backup battery*	<b>Antennas</b>
	Internal GSM, Internal GPS
<b>Physical characteristics</b>	
Dimensions (LxWxH): 172 x 56 x 39 mm	
Weight: approx. 229 g	

\* optional available

\*\* extreme temperatures can affect device performance.

Note: Specifications and information given in this document are subject to change by FALCOM without notice.  
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