

# FOX-IN-AU

## Automotive Vehicle Location solution (AVL)

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

A-GPS capable

Communication via Quad Band GSM

SMS, Data, GPRS, TCP/IP, E-mail

Autonomous operation

Thief Alert / Motion Detection

Online Tracking

Fleetmanagement

Car Security and Recovery

Drivers Logbook/History

Territory Management / Geofencing

Remote administration & firmware update

CE approved

Options: Backup Battery  
CAN interface  
Bluetooth dongle  
I/O Extension dongle



## The FALCOM FOX-IN-AU

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.

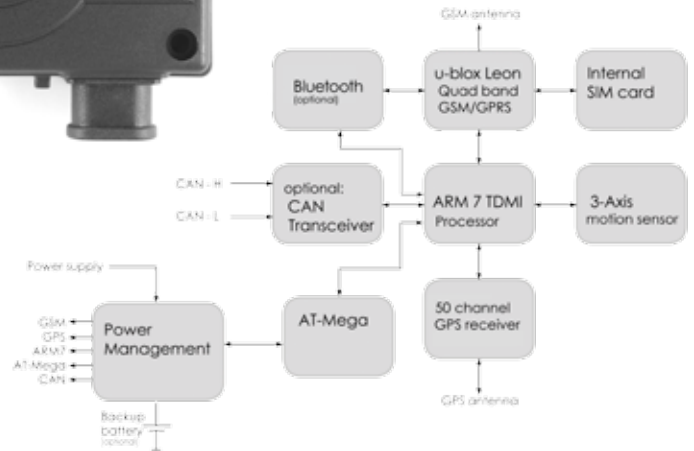
Users benefit most from combining comfort and security aspects – for example having regular voice calls as well as spy calls in emergency cases. Drivers logbook and data logging functionalities are combined in the history feature.

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

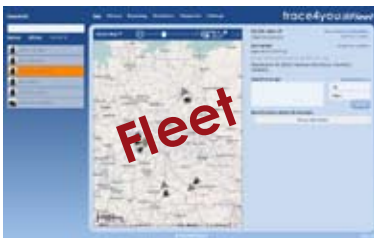
- PFAL commands for full control
- Intelligent and flexible alarm system, suitable for most applications
- Customizable device messages
- Easy to combine with most digital and analogue sensors
- Drivers Logbook / History
- Geofence, distance calculation
- Trip management
- Local and remote communication
- Optional
  - Encrypted communication
  - Security 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>Physical characteristics</b>
Quad band module	Dimensions (LxWxH): 100 x 65 x 24 mm
850/900/1800/1900 MHz	Weight: approx. 105 g
GPRS class 10, class B	
TCP/IP (accessible via PFAL commands)	<b>Temperature range**</b>
	Storage: -40 °C to +90 °C
<b>GPS core</b>	Operating: -40 °C to +85 °C
50 channel u-blox 5 engine	GSM: -30 °C to +80 °C
A-GPS online/offline support	Battery option: -20 °C to +60 °C
Protocols: NMEA, GGA, GGL, GSA,	Charging: 0 °C to +45 °C
GSV, RMC, WGS-84	Discharging: -20 °C to +60 °C
Accuracy: Position < 2.5 m	
SBAS < 2 m	<b>Motion sensor</b>
Acquisition: TTF hot start: < 1 s average	3 axis motion sensor
TTF warm start: < 29 s average	
TTF cold start: < 29 s average	<b>Interfaces</b>
Sensitivity: Acquisition: -160 dBm	4 IOs: • 3 configurable digital/analogue inputs
Tracking: -160 dBm (12 dBHz)	with open collector output (100 mA)
Cold start: -144 dBm	(2 are used for CAN feature)
Limits: Velocity: 500 m/s (972 knots)	• 1 digital input (IGN)
Altitude: 50.000 m	RS232 (RX,TX V24 level)
	SIM card reader for 1,8/3 V SIM cards
<b>Processor core</b>	3 programmable LEDs
ARM7/TDMI	Bluetooth dongle*
8 MB Flash / 2 MB RAM	Audio interface* (Speaker, Microphone)
<b>Electrical characteristics</b>	<b>Antennas</b>
Power: +10,8 V to +32 V DC	internal antennas for GSM, GPS and
Backup battery*	Bluetooth

\* 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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