

MAMBO2-UXFS

Personal Tracking Solution

- High Sensivity A-GPS u-blox 6 Satellite receiver
 - Communication via Quad Band GSM
 - Voice, SMS, Data, GPRS, TCP/IP
 - Full colour OLED display
 - Fully approved (FCC¹, PTCRB¹, CE)
 - Remote administration & firmware update
 - Online tracking / History / Geofencing
 - Fully customizable behaviour
 - Autonomous operation
 - Personal security and recovery
 - „Dead man“ - Motion detection
 - Different User-GUIs
 - Options: Rough environment protection
- Bluetooth / IEEE 802.15.4 / ANT*
Micro SD-Card Reader



The FALCOM MAMBO2-UXFS

is an advanced personal tracker that integrates a quad band GSM/GPRS phone for two way communication and a 50 channel low-power A-GPS receiver for positioning. At first glance, MAMBO2 looks like a conventional mobile phone. In the MAMBO2 there are many functions designed specifically for use in logistics providers, cab company, security and fire services, police or technical emergency service.

MAMBO2 can be used as a cell phone with the standard features, voice calls, SMS all through a simple menu-guided operation. This small robust device can be carried along in a pocket or fixed in a vehicle. It is a true mobile all-rounder both for commercial and private users. MAMBO2 also

supports a series of functions for GPS navigation and tracking via SMS, CSD and GPRS/TCP. The all-rounders true strength lies in the multitude of its configuration options: Rolling GPS display, geo-fencing capability with alarm and an ultra-precise movement detector are just some of the MAMBO2's core functions.

MAMBO2 integrates up to five communication options, including GSM and TCP, system-wide IEEE 802.15.4 for communication with a keyfob, Bluetooth for hands free communication, and ANT (*) for heart rate monitoring. This first-of-its-kind solution with a sophisticated software offers system integrators and developers the possibility to develop their own cost efficient and flexible solution.

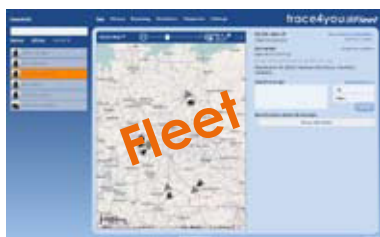
Software features

- PFAL commands for full control
- Intelligent and flexible alarm system, suitable for most applications
- Customizable device messages
- User Logbook / History
- GeoFencing
- Trip management
- Smart power management
- Local and remote communication
- Optional
 - Encrypted communication
 - Security authentication
- Remote access
 - Status reports / tracking
 - Commands
 - Configuration
 - Firmware update

Applications

- Real time online tracking
- Field employee monitoring
- Security / emergency services
- Trip management
- Distance calculations
- Theft protection
- Compatible with FALCOM Trace4you server solution
- Displaying of GPS data (speed, height, direction..)
- Point-to-Point navigation
- Heart rate monitoring

trace4you



Color options



Technical specification

GSM core	Electrical characteristics
Quad band module	Power: USB
850/900/1800/1900 MHz	Li-Polymer battery
GPRS class 10, class B	
TCP/IP (accessible via PFAL commands)	Physical characteristics
	Dimensions (HxWxT): 86 (103) x 54 x 26 mm
GPS core	Weight: 108 g
50 channel u-blox 6 engine	
A-GPS online/offline support	Temperature range
Protocols: NMEA, GGA, GGL, GSA, GSV, RMC, WGS-84	-20 °C to +60 °C
Accuracy: Position < 2.5 m	Motion sensor
SBAS < 2 m	3-axis motion sensor
Acquisition: TTFF hot start: < 1 s average	
TTFF warm start: < 29 s average	Interfaces
TTFF cold start: < 29 s average	Bluetooth* SPP, IEEE 802.15.4*, ANT*
Sensitivity: Acquisition: -160 dBm	Micro SD card reader*
Tracking: -160 dBm (12 dBHz)	Mini USB port
Cold start: -144 dBm	OLED display, 128 x 128 Px, Full colour
Limits: Velocity: 500 m/s (972 knots)	SIM card reader for 1,8/3 V SIM cards
Altitude: 50.000 m	Internal speaker
	Internal microphone
Processor core	2 Buttons
ARM7/TDMI	5-way Joystick
Memory: 8 MB Flash / 4 MB RAM	Reset button

* optional available

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