

# MAMBO2

## Personal Tracking Solution

- High sensitivity 20 channel SiRFStarIII GPS receiver
- Communication via Quad Band GSM
- Voice, SMS, Data, GPRS, TCP/IP
- Full colour OLED display
- Fully approved ( FCC<sup>1</sup>, PTCRB<sup>1</sup>, 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

is an advanced personal tracker that integrates a quad band GSM/GPRS phone for two way communication and a 20 channel low-power 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

## Tracking solutions

MiaVojo Personal Edition



MiaVojo Sport Edition



## Color options



## Technical specification

<b>GSM core</b>	<b>Physical characteristics</b>
TELIT GE864-Quad module	Dimensions (HxWxT): 86 (103) x 54 x 26 mm
850/900/1800/1900 MHz	Weight: 108 g
GPRS class 10, class B	
TCP/IP (accessible via PFAL commands)	<b>Temperature range</b>
	-20 °C to +60 °C
<b>GPS core</b>	<b>Motion sensor</b>
FALCOM 20 channel GPS receiver	3-axis motion sensor
High sensitivity SIRFStarIII chipset	
Protocols: NMEA, WGS-84	
Position accuracy: < 10 m CEP without SA	<b>Interfaces</b>
TFF hot start: < 1 s average	Bluetooth* SPP, IEEE 802.15.4*, ANT*
TFF cold start: < 42 s average	Micro SD card reader*
Tracking sensitivity: -159 dBm (13 dBHz)	Mini USB port
	OLED display, 128 x 128 Px, Full colour
<b>Processor core</b>	SIM card reader for 1,8/3 V SIM cards
ARM7/TDMI	Internal speaker
Memory: 8 MB Flash / 4 MB RAM	Internal microphone
	2 Buttons
<b>Electrical characteristics</b>	5-way Joystick
Power: USB	Reset button
Li-Polymer battery	

\* 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](http://www.falcom.de)