

MAMBO 2

Personal Tracking Solution

- High sensitivity 20 channel SirfStar III GPS receiver
- Communication via Quad band GSM
Voice, SMS, Data, GPRS, TCP/IP, Email
- Full colour OLED display
- Fully approved (FTA, FCC, PTCRB, e1, CE)
- Remote administration & firmware update
- Online tracking / History / Geofencing
- Fully customizable behaviour
- Autonomous operation
- Personal security and recovery
- „Dead man“ / Motion detection
- Different editable User-GUIs
- Options: Rough environment protection
Bluetooth / IEEE 802.15.4 / ANT
SD-Card



The FALCOM MAMBO 2

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, MAMBO 2 looks like a conventional mobile phone. In the MAMBO 2 there are many functions designed specifically for use in logistics providers, cab company, security and fire services, police or technical emergency service.

MAMBO 2 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. MAMBO 2 also supports a series of

functions for GPS navigation and tracking via SMS, CSD and GPRS/TCP. The all-rounder's 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 Mambo 2's core functions.

MAMBO 2 integrates up to five communication options, including GSM and TCP, system-wide IEEE 802.15.4 for indoor tracking and keyfobs, 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
- 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..)

trace4you



Block diagram



Technical specification

GSM core	Physical characteristics
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)	Temperature range**
	GSM: -30 °C to +80 °C
GPS core	Motion sensor
FALCOM 20 channel GPS receiver	3-axis motion sensor
High sensivity SIRFStarIII chipset	
Protocols: NMEA, GGA, GGL, GSA, GSV, RMC, WGS-84	Interfaces
Position accuracy: < 10 m CEP without SA	Bluetooth* SPP, IEEE 802.15.4*, ANT*
TTF hot start: < 1 s average	SD card*
TTF cold start: < 42 s average	USB plug socket
Tracking sensitivity: -159 dBm (13dBHz)	OLED display, 128 x 128 Px, Full colour
	SIM card reader for 1,8/3 V SIM cards
Processor core	Speaker
ARM7/TDMI	Microphone
Memory: 8 MB / 2 MB	Status LED
	2 Buttons
Electrical characteristics	5-way Joystick
Power: USB 5 V	Reset button
Lithium Ion battery	

Note: For latest product information see www.falcom.de

* optional available

** Note that extreme temperatures can affect device performance.