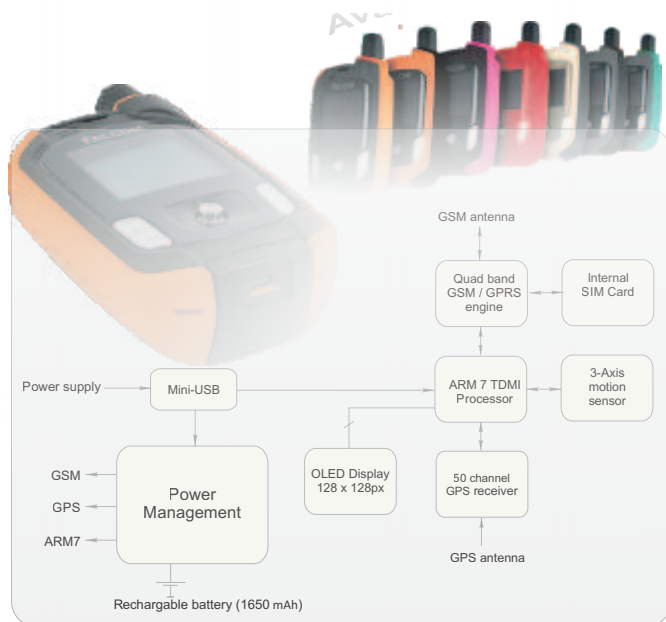




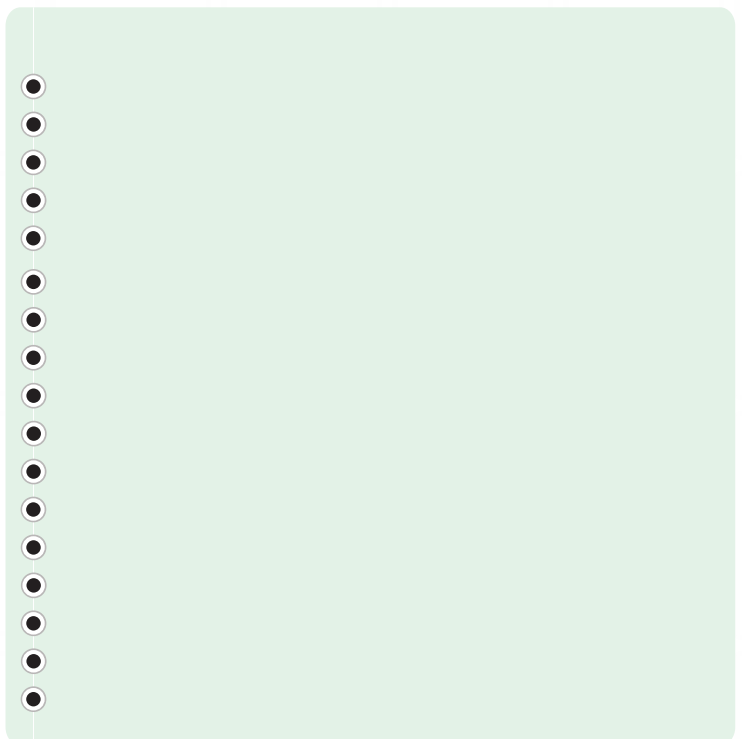
PRODUCT OVERVIEW



MAMBO2-B6 BLOCK DIAGRAM



PRODUCT HIGHLIGHTS



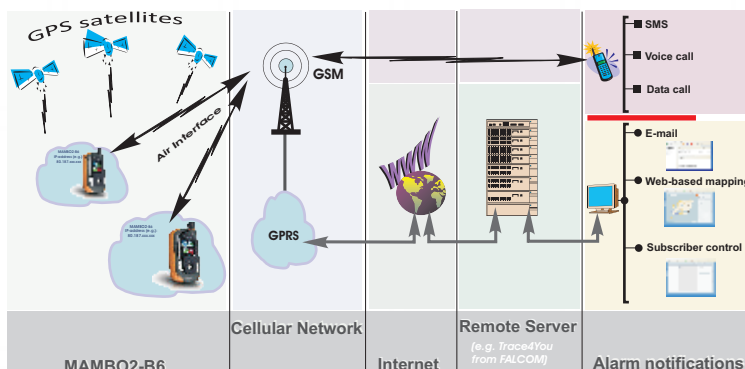
FIRMWARE FEATURES

- Embedded TCP/IP stack for client-server application
- FALCOM protocols: IOP, GSM, AREA, 3DP, BIN
- Supporting SMS, CSD, Voice call
- Local and over-the-air firmware update
- Multi power-saving modes and wake up conditions
- 20 programmable Timers, Triggers, Counters
- 100 programmable Geofences and 32 Areas
- Wide variety of events and states for sending reports
- Programmable Geo-fencing and Parking alerts
- Follow waypoints forward or backward
- Trace the route of another MAMBO2-B6
- SOS panic button and spy call function
- Handling of fall, tilt and motion events
- Forwarding messages from one channel to another
- Customized reports, sending intervals
- Report by distance, time, bearing and on demand
- Local/Remote access via PFAL commands
- Device configuration USB, TCP and SMS
- Intelligent and flexible configuration alarms

APPLICATIONS

- Personal security and recovery/emergency services
- Fleet tracking management
- Real-time positioning
- Theft protection
- Territory monitoring
- GPS Data Collection
- Distance calculations
- Point-to-Point navigation
- Outdoor sports and activities
- Trip management and many others
- Compatible with FALCOM trace4you server application (also configurable for most of TCP/IP server-based tracking applications)

Applications - Graphical overview



TECHNICAL SPECIFICATION

General

Quad-Band GSM/GPRS engine
GSM frequency bands: 850/900/1800/1900 MHz
GPRS class 10, Class B
Internet (TCP/IP/UDP/SMTP)
50 channel GPS receiver
GPS frequency: L1 1575.42 MHz
Protocols: NMEA, FALCOM (binary)
AGPS Offline / Autonomous
Accuracy: Position: 2.5 m
SBAS: 2 m
Acquisition: Cold starts: 26 sec.
Sensitivity: Tracking: -162 dBm
Cold starts: -148 dBm
GPS Operational limits:
Velocity: 500 m/s (972 knots)
Altitude: 50.000 m
Update rate: 1 Hz

Environmental data

Operating temp.: -20 °C to +60 °C
Storage temp.: -20 °C to +60 °C
Charging temp.: 0 °C to +45 °C

Electrical characteristics

Charging Voltage 5V DC ±10%/500mA (Mini USB port)
Alternative quick charge max. +12 VDC Mini USB port
Rechargeable Li-Polymer battery (1650 mAh)

* Optional

** Depending on the screensaver mode

Average Power Consumption

Normal operation: ca. 132 mA @ 4 VDC**
Power saving (IGN): ca. 1mA @ 4 VDC

Physical characteristics

Dimensions (HxWxL): 86/103mm x 54mm x 26mm
Weight: ca. 108 g

Air humidity

5% up to 95% non-condensing

Interfaces

OLED display, 128 x 128 Px, Full colour
10pin Mini-USB (battery charging, data transfer)
Integrated Speaker/Microphone/Handsfree
1 x Navigation key (software-controlled features)
2 x Soft keys (software-controlled features)
1 x LED free programmable
Inside SIM card holder for 1,8/3 V SIM cards

Housing

Plastic housing available in different colours.

Serial Data Rates

4800 bps ... 115200 bps

GSM and GPS Antennas

Internal

Motion sensor

3-axis motion sensor (software-controlled features)

Processor core

ARM7/TDMI
8 MB Flash (History / Firmware / Configuration)

MAMBO2-B6 EVALKIT CONTENTS

EVALKIT offered by FALCOM provides all the necessary hardware, software, and documentation to effectively operate and evaluate the performance and suitability of the MAMBO2-B6. The EVALKIT is shipped pre-configured allowing system integrators and developers to test the device and see how it works. The KIT contains:

- 1 - MAMBO2-B6
- 2 - Leather belt pouch
- 3 - AC/DC Power adapter 12V-1A
- 4 - UK/US Plug travel adaptor
- 5 - USB Car Charger DC5V 1A

- 6 - USB-A-to-Mini-USB-1M USB2.0
- 7 - Docking station
- 8 - Info-sheet
- 9 - Pre-paid SIM card
- 10 - Documentation

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