

BOLERO

Vehicle & Asset tracking revolution with advanced security control

GPS: High sensitive 20 channel based on SiRFstarIII

GSM: Quad Band GSM/GPRS phone

Bluetooth transceiver

IEEE (ZigBee) module

Build-in 3-axis motion sensor

All antennas included

IGN, 3 x Input/Output

Internal SIM-Card reader

Real time object tracking

GPS history function

Very small & inconspicuous

Options: Backup battery

Wireless remote control units

CAN interface

Protective cover (IP65)



The FALCOM BOLERO

Based on the GSM/GPRS and state-of-art GPS technology for satellite navigation, FALCOM introduces a new tracking device for car safety and asset monitoring. The integrated GPS receiver architecture based on the SiRFstarIII chipset provides more than enough precise location information using satellite signals to enable to track cars where they are anywhere in the world.

With its integral housing, compact design and low power consumption, it is an outstanding quality, high-performance, operating as a stand alone unit ideally suited for car security, asset management and automotive applications as well. The configurable internal firmware is a fundamental component which in combination with the excellent hardware performance makes the FALCOM BOLERO unit to be on the top of

applications where the fleet management and car security today are required. The FALCOM BOLERO consists of the GSM/GPRS engine, 20 channel GPS receiver, Bluetooth™ class 2 and a motion detector as an all-in-one solution.

The FALCOM BOLERO provides geofence features that can be used for territory management, route verification, prohibited locations, and more. Once a geofence is established, the unit automatically notifies via SMS, Voice or Data calls, if the car carrying it enters and/or leaves the predefined area(s).

The FALCOM BOLERO based on the TCP/IP protocol is also able to be monitored as real time over the internet or to send an e-mail to the predefined e-mail address.

FALCOM Tracking solution: trace4you



Based on the BOLERO, MAMBO and STEPP II features, FALCOM GmbH has developed a Demo Tracking Software which provides a comprehensive online reporting system producing text and graphical information. To track your BOLERO unit you only need a computer connected to the internet with the pre-installed standard web browser. No additional software or computer hardware are required. Just log-in to the tracking web site to manage your BOLERO personal security unit. With the help of the Demo Tracking Software which provides a real-time tracking map and other configuration features, the unit's position can be polled and graphically represented on the map. So it allows you to put in the know where are the persons who carrying it, vehicles and others. However, via this software you can watch them as they travel.

Extension accessories



Bluetooth USB dongle, headset & hands free car kit



Wireless remote control: Keyfob



Wireless I/O Extension box

Geofencing

The FALCOM BOLERO provides geofence features that can be used for territory management, route verification, prohibited locations, and more. Once a geofence is established, the unit automatically notifies via SMS, Voice or Data calls, if the person carrying it enters and/or leaves the predefined area(s).

History

The FALCOM BOLERO contains a history function enables the GPS receiver to store up to 300000 records and at a later time the history data can be downloaded either locally or over-air GSM network or TCP-connection for further evaluation.

Protective cover



Option for IP65

Technical specification

GSM core	Temperature range
TELIT GE864-Quad module	Operating**: -40 ° to +85 °C
850/900/1800/1900 MHz	Charging: 0 ° to +40 °C
GPRS class 10, class B	Discharging: -20 ° to +60 °C
TCP/IP (accessible via PFAL commands)	Storage ***: -40 ° to +90 °C
GPS core	Motion sensor
FALCOM 20 channel GPS receiver	3-axis motion sensor
SiRFstarIII	
Protocols: NMEA, GGA, GGL, GSA, GSV, RMC, WGS-84	Bluetooth features
Position accuracy: < 10 m CEP without SA	Bluetooth class 2
TTF hot start: < 1 s average	Range: ~ 10 m
TTF cold start: < 42 s average	Profile: Headset, Handsfree, SPP
Tracking sensitivity: -159 dBm (13dBHz)	Interfaces
	Bluetooth
Processor core	IEEE 802.15.4
ARM7/TDMI	4 LEDs for status signals
Memory: 2 MB / 512 kB	SIM card reader
	Lines for microphone & loudspeaker*
Electrical characteristics	6pol MOLEX: Power, IGN, 3 x I/O
Power: +10,8 V to +31,2 V DC	
Backup battery*	
Physical characteristics	
Dimensions (LxWxH): 85 x 56 x 20 mm	
Weight: 90 g	

* optional available

** these temperatures can affect the sensitivity and performance of the unit

*** over- and underruns lead to battery damage