

FOX-3

Connected asset management solution for the Internet of Things

- UMTS/HSPA: 900/2100 MHZ for Europe; 850/1900 MHz for America.
- GSM/GPRS/EDGE: 850/900/1800/1900MHz.
- Latest GPS technology for positioning –Multi channel GNSS receiver
- RS232 / RS485 / 1-wire / CAN interfaces
- CAN / OBDII / FMS interfaces
- Passive / Active RFID connectivity via RS232 port
- USB 2.0 interface
- Multi-function I/O
- 3 Axis accelerometer
- Expandable hardware vis IOBOX-MINI or IOBOX-CAN
- Internal / External Antennas
- Delivers high performance and very flexible applications
- Customized firmware configuration
- Allows to create customized protocols
- Data-Logger functionality
- Powered from vehicle main battery
- Backup battery* to back up the main power supply



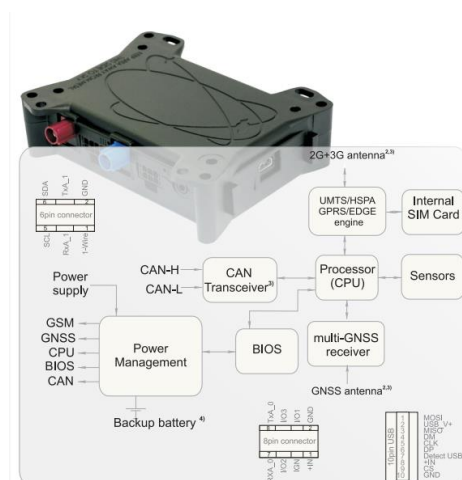
FALCOM FOX-3G

FOX3-3G is a compact all-in-one device combining 2G/UMTS/HSPA+ high-speed data connection with the latest GNSS technology to completely satisfy customer's need. Depending on the requirements of the customer, the needed hardware options can be decided shortly before installation. Based on the design features and extended capabilities, this device will dramatically simplify customer logistics as well as the installation process and post-installation support. It provides analog ports and integrates with 1-Wire interface. The 1-Wire interface supports connection with multiple sensors and actuators such as iButton, Temperature Logger, Temperature Sensor, Humidity sensor... etc.

FOX 3G can act a mobile client for various regular applications like AVL, fleet management, security and recovery of assets. The device offers new features like: DATA ENCRYPTION, several HISTORY MODES or ECO- DRIVE beside standard items like status reports, alerts messaging, audio call, spy calls or geo-fencing.

Firmware Features

- Embedded TCP/IP stack for client-server application
- FALCOM protocols: IOP, GSM, AREA, 3DP, BIN
- Supports SMS, USSD, Voice call
- Local and remote firmware update
- Multi power-saving modes and wake up conditions
- 20 programmable Timers, Triggers, Counters
- 500 programmable Geofences and 32 Areas
- Programmable Geo-fencing and Parking alerts
- Encryption capability
- Customizable and Secured
- Internal battery



Applications

- Real time tracking of vehicles and assets
- Fleet management / monitoring
- Security / Emergency services / Insurance services (UBI)
- CAN interface
- Garmin Fleet management Interface
- Trip management / distance calculations
- HoS, Driver Log, IFTA, DVIR support
- Backup camera interface
- Sleep modes for seasonal use
- Compatible with *infoTRAK* FLEET Solutions

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TECHNICAL SPECIFICATION		
General		Physical characteristics
3G (UMTS/HSPA) and 2G (GSM/GPRS/EDGE) engine:		Dimensions (LxWxH): 105 mm x 83 mm x 28 mm
- 3G bands: 900/2100 MHz for Europe		Weight: approx. 130 g
850/1900 MHz for America		Air humidity
- 2G bands: 850/900/1800/1900 MHz		5% up to 95% non-condensing
Internet (TCP/UDP/HTTP/SMTP)		Interfaces
Multi channel GNSS (GPS+Galileo/GLONASS ¹⁾ receiver		3 x Digital/analog IO ports (programmable)
A-GPS (online / offline / autonomous)		1 x Predefined digital input (Ignition)
Protocols: NMEA, FALCOM (binary)		3 x LED indicators (programmable)
Accuracy:		2 x RS-232 Ports (1xV.24 level; 1xRS-232/RS-485 ²⁾)
	GPS	GLONASS
Position:	2.5 m	4.0 m
Acquisition / Sensitivity:		1 x 10pin Mini-USB connector (for IOBOX-MINI ³⁾)
Cold Start:	29 s	30 s
Tracking:	-161 dBm	-158 dBm
Sensitivity:	-148 dBm	-145 dBm
GPS Operational limits:		1 x 1-Wire interface (incl. 5V Phantom Power)
Velocity:	500 m/s (972 knots)	1 x 4pin audio jack interface (2.5mm)
Altitude:	50,000 m	1 x CAN-Bus Interface ⁴⁾ (uses 2 of 3 I/Os)
Update rate:	1 Hz	1 x Inside SIM card holder for 1,8/3 V SIM cards
		1 x USB 2.0 interface
Electrical characteristics		Serial Data Rates
Power supply:	+10.8 V to +32,0 V DC	Serial Ports: 4800...115200 bps (default = 115200 bps)
Optional Li-Polymer 1000 mAh rechargeable battery ⁵⁾		2G-3G / GNSS Antennas
		Internal and external ⁶⁾ with automatic/manual switch
Average Power Consumption		Sensor / Measurement range
Normal operation:	50mA @ 12 VDC	3-axis Acceleration/Temperature
Sleep mode:	< 1mA @ 12 VDC	- 3DG : ± 8g (programmable)
Environmental data		- Temperature : - 50 to + 120 °C (programmable)
Operating temp.:	-40 °C to +85 °C	Processor core
Storage temp.:	-40 °C to +85 °C	RTC + Calendar
GSM:	-40 °C to +85 °C	8 MB Flash (History / Firmware / Configuration)
Battery ⁵⁾ discharging temp. :	-20 °C to +60 °C	
Battery ⁵⁾ charging temp.:	0 °C to +45 °C	

¹⁾ Optional / Accessory
²⁾ Activation with PFAL-Command.
³⁾ Applicable with backup battery
⁴⁾ Hardware Premium Features: CAN-Bus-interface, RS-485 port
 Storage and using conditions of the device with battery option are limited to the battery temperature range.

infoTRAK Fleet Server Solution

