

FALCOM, a storied M2M and IoT specialist from Germany, designs, manufactures and sells world-wide state-of-the-art devices, services and solutions ideally suited to numerous applications: fleet management, car sharing, usage-based insurance, asset and workforce tracking and security, precision farming.

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FOX3-3G BE BROOK HAVE

ADVANCED VEHICLE TELEMATICS AND DATA LOGGING SYSTEM WITH HIGH SPEED DATA CONNECTION

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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. FOX3-3G is designed to operate with internal or external antennas. Built-in internal antennas are automatically turned off while external antennas are in use. This device will dramatically simplify your logistics as well as the installation process and the post-installation support. Newly developed FALCOM "Premium-Features" show the way to the future of mobile data logging, storing, processing and sending. FOX33G is an advanced and fully customizable vehicle tracking device. FOX3-3G offers new features like: Data Encryption, several History Modes, Eco-Drive/Behaviour, Data Logging GSM/GPS jamming detection beside standard items like status reports, alerts messaging, audio call, spy calls or geofencing. There are four models of the FOX3-3G available: FOX3-3G standard, FOX3-3G-LITE, FOX3-3G-AUDIO and FOX3-3G-BTLE. All device models are expandable via IOBOX-MINI, IOBOX-CAN and IOBOX-BLE.

TEMPERATURE (FMS)





	TALCOW		
	Concernel	Average Device Concumption	
		Average Power Consumption	Interfaces
z	3G bands: 900/2100 MHz (EU); 850/1900 MHz (US)	Normal operation: 50mA @ 12 VDC Sleep mode: < 1mA @ 12 VDC	3 x Digital/analog IO ports programmable
0	2G bands: 850/900/1800/1900 MHZ Internet (TCP/UDP/HTTP/SMTP)	Sleep mode: < 1mA @ 12 VDC Environmental data	1 x Predefined digital input (Ignition)
	Multi channel GNSS (GPS+Galileo/GLONASS ²⁾)	Operating temp.: $-40 \ ^{\circ}C \ to + 85 \ ^{\circ}C$	3 x LED indicators programmable
A J	A-GPS (online / offline / autonomous)	Storage temp.: -40 °C to +85 °C	2 x RS-232 Ports(1xV.24 level;1xRS-232/RS-485 ²¹⁵)
ບັ	Protocols: NMEA, FALCOM (binary)	GSM ³ : -40 °C to +85 °C	1 x 10pin Mini-USB connector (for IOBOX-MINI ¹⁾ ,
Ē	Accuracy: GPS GLONASS	Battery ⁴⁾ charging temp.: 0 °C to +45 °C	IOBOX-CAN ¹¹ or IOBOX-BLE ¹¹)
- -	Position: 2.5 m 4.0 m	Physical characteristics	1 x 1-Wire interface (incl. 5V Phantom Power) 1 x I ² C interface
Ш	Acquisition / Sensitivity:	Dimensions (LxWxH): 105 mm x 83 mm x 28 mm	
٩	Cold Start: 29 s 30 s	Weight: approx. 130 g	1 x 4pin audio jack interface (2.5mm) ⁶⁾ 1 x CAN-Bus Interface ²¹⁵⁾ (uses 2 of 3 I/Os)
S	Tracking: -161 dBm -158 dBm	Air humidity	1 x Inside SIM card holder for 1.8/3 V SIM cards
	Sensitvity: -148 dBm -145 dBm	5% up to 95% non-condensing	1 x USB 2.0 interface
C A	GPS Operational limits:	Serial Data Rates	Sensor / Measurement range
_	Velocity: 500 m/s (972 knots)	Serial Ports: 4800115200 bps (default=115200 bps)	
N H	Altitude: 50.000 m	GSM / GNSS Antennas	- 3DG : ± 8g (programmable)
C H	Update rate: 1 Hz	Internal and external ²⁾ with automatic/manual switch	- Temperature: - 50 to + 120 °C (programmable)
ш	Electrical characteristics		Processor core
н	Power supply: +10,8 V to +32,0 V DC		RTC + Calendar
	Internal Li-Polymer/Li-Ion 1000 mAh rechargeable battery		8 MB Flash (History / Firmware / Configuration
	¹ Optional / Accessory	⁴ Applicable with backup battery	⁹ F0X3-3G-AUDIO only
	²⁾ Activation with PFAL-Command.	Hardware Premium Features: CAN-interface, RS-485 port	
	³⁾ The GSM/GPRS module is fully functional (-20 °C to + 55 °C meets the 3GPP specifica	tions) . Storage and using conditions of the device with battery op	tion are limited to the battery temperature range.
S	• State-of-the-art 3G/2G and GNSS technology	Customizable firmware configuration	Hardware expandable via IOBOX-MINI ¹⁾ ,
ніенгіентя	• 3-axis acceleration, internal temperature sensors	Multi-function I/Os	IOBOX-CAN "or IOBOX-BLE "
GF	Gyro / Magnetic sensors (external only)	Optional battery back-up ¹⁾	 Internal GSM/GNSS antennas with connectors for optional external antennas¹⁰
	Drop-in replacement of previous FOX-generation	Display connectivity (JAZZ2)	 Communication via USB 2.0 interface
ВH	• Sensor interfaces via RS-232/RS-485/1-Wire/CAN	Audio interface (SPK+MIC)	 Support connection with Garmin devices
Ē	FALCOM PFAL programming language	Data-Logger functionality	Certificates in preparation
	Passive/active RFID connectivity via RS-232	CAN/FMS, CAN-OBDII interface ⁵⁾	
ш	Embedded TCP/IP stack for client-server application	20 programmable Timers, Triggers, Counters, nvCounter	s RFID and sensor-based application
AR	FALCOM protocols: IOP, GSM, AREA, 3DP, BIN	 3000 programmable Geofences, 32 Areas, 2000 Waypoi 	
Ň	Supports SMS/USSD/Voice call/TCP/IP/UDP/SMTP/HTTP	 Report by distance, time, bearing and on demand 	Over-the air-access (OTA)
RMWAR	Local and remote firmware update and configuration	 Drivers Logbook / History / Trip management 	
<u> </u>	Multi power-saving modes and wake up conditions Intelligent and flexible configuration alarms		
	Real time online tracking	Security / Emergency / Insurance services (UBI)	Driving behaviour / Eco-Drive monitoring
S	Fleet management / monitoring	Real time satellite navigation	Toll collection / Pay-As-You-Drive (PAYD)
APPS	• Car sharing	Territory management	Theft protection
4	Waste management	Route verification	Compatible with D2Sphere server and
	Public transportation	Trip management / distance calculations	configurable for using other TCP servers
F	PROMOTION KIT for FOX3-3G device provides all the necessary hardware, software, and access data to the online documentation and D2Sphere server to easily and		
0 M 0 T I 0 N - K I T	quickly evaluate this product and all its functionalities. This kit consists of:		
Ż			heet with access data to online documentation and
0			here server
01	3 - Control-Box 1	1 - AC/DC Power adapter 12V-1A 15 - Pre-pa	aid SIM card. Service fee includes 10MB of data
Ē			er and 3 months access to the D2Sphere server for
30			ation purposes
PR	8 - USB to Serial Converter	16 - 8 hour	rs free technical support
8			
Ň	GNSS	SN SN	75
EH	The		
S		GSM 3G	
ere			
h			
D2Sphere SERVER		Internet TCP	
Ď	FOX3-3G APPLICATION AREA	COMMUNICATION NETWORK WEB SER	VER USER-INTERFACE (e.g. D2Sphere)
L L			
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