

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

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)





	TALCON			
	Concercl	Average Device Concumption		
		Average Power Consumption	Interfaces	
z	3G bands: 900/2100 MHz (EU); 850/1900 MHz (US)	Normal operation: 50mA @ 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)	
	· · · ·		3 x LED indicators programmable	
L A	Multi channel GNSS (GPS+Galileo/GLONASS ²⁾)	Operating temp.: -40 °C to +85 °C	2 x RS-232 Ports(1xV.24 level;1xRS-232/RS-485 ²⁽⁵⁾)	
C A	A-GPS (online / offline / autonomous)	Storage temp.: -40 °C to +85 °C	1 x 10pin Mini-USB connector (for IOBOX-MINI ¹),	
ᇤ	Protocols: NMEA, FALCOM (binary)	GSM ³): -40 °C to +85 °C	IOBOX-CAN ¹⁾ or IOBOX-BLE ¹⁾)	
_	Accuracy: GPS GLONASS	Battery ⁴⁾ charging temp.: 0 °C to +45 °C	1 x 1-Wire interface (incl. 5V Phantom Power)	
С Ш	Position: 2.5 m 4.0 m	Physical characteristics	1 x I ² C interface	
4	Acquisition / Sensitivity:	Dimensions (LxWxH): 105 mm x 83 mm x 28 mm	1 x 4pin audio jack interface (2.5mm) ⁶	
S	Cold Start: 29 s 30 s	Weight: approx. 130 g	1 x CAN-Bus Interface ^{2) 5)} (uses 2 of 3 I/Os)	
	Tracking: -161 dBm -158 dBm Sensitvity: -148 dBm -145 dBm	Air humidity	1 x Inside SIM card holder for 1,8/3 V SIM cards	
A	Sensitvity: -148 dBm -145 dBm GPS Operational limits:	5% up to 95% non-condensing Serial Data Rates	1 x USB 2.0 interface	
ပ			Sensor / Measurement range	
Z	Velocity: 500 m/s (972 knots)	Serial Ports: 4800115200 bps (default=115200 bps) GSM / GNSS Antennas		
I		Internal and external ² with automatic/manual switch	- 3DG : \pm 8g (programmable)	
С Ш	Update rate: 1 Hz Electrical characteristics		- Temperature: - 50 to + 120 °C (programmable)	
Ē	Power supply: +10,8 V to +32,0 V DC		Processor core	
	Internal Li-Polymer/Li-Ion 1000 mAh rechargeable battery ¹		RTC + Calendar	
			8 MB Flash(History / Firmware / Configuration	
	 Optional / Accessory Activation with PFAL-Command. 	 ⁴ Applicable with backup battery ⁹ Hardware Premium Features: CAN-interface, RS-485 port 	6) FOX3-3G-AUDIO only	
	³⁾ The GSM/GPRS module is fully functional (-20 °C to + 55 °C meets the 3GPP specifica		tion are limited to the battery temperature range.	
	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 ¹ or IOBOX-BLE ¹	
H	Gyro / Magnetic sensors (external only)	• Optional battery back-up ¹⁾	Internal GSM/GNSS antennas with connectors for	
Ľ	Drop-in replacement of previous FOX-generation	 Display connectivity (JAZZ2) 	optional external antennas ¹⁾	
H	Sensor interfaces via RS-232/RS-485/1-Wire/CAN	Audio interface (SPK+MIC)	Communication via USB 2.0 interface	
E E	• FALCOM PFAL programming language	Data-Logger functionality	Support connection with Garmin devices	
	Passive/active RFID connectivity via RS-232	 CAN/FMS, CAN-OBDII interface ⁵⁾ 	Certificates in preparation	
H	 Embedded TCP/IP stack for client-server application FALCOM protocols: IOP, GSM, AREA, 3DP, BIN Supports SMS/USSD/Voice call/TCP/IP/UDP/SMTP/HTTP Local and remote firmware update and configuration Drivers Logbook / History / Trip management 			
VA				
	• Supports SMS/USSD/Voice call/TCP/IP/UDP/SMTP/HTTP	Report by distance, time, bearing and on demand	Over-the air-access (OTA)	
RI	Local and remote firmware update and configuration	Drivers Logbook / History / Trip management		
Ē	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	
\$	Fleet management / monitoring	 Real time satellite navigation 	 Toll collection / Pay-As-You-Drive (PAYD) 	
APPS	• Car sharing	Territory management	Theft protection	
AI	Waste management	Route verification	 Compatible with <i>D2Sphere</i> server and 	
	Public transportation	Trip management / distance calculations	configurable for using other TCP servers	
–				
PROMOTION-KIT		ecessary hardware, software, and access data to the onlin	ne documentation and <i>D2Sphere</i> server to easily and	
-	quickly evaluate this product and all its functionalities. T		The second data to the data second data and	
0			neet with access data to online documentation and	
Ē			<i>nere</i> server id SIM card. Service fee includes 10MB of data	
10			er and 3 months access to the <i>D2Sphere</i> server for	
			tion purposes	
B	8 - USB to Serial Converter		's free technical support	
ΞEF	GNSS 🚙 💠 📫	(((j)))	15	
RV R				
SE		SSM & 3G		
e				
he				
Spl		Internet TCP		
D2Sphere SERVER				
	FOX3-3G APPLICATION AREA	COMMUNICATION NETWORK WEB SER	VER USER-INTERFACE (e.g. <i>D2Sphere</i>)	
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