

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(2G)

ADVANCED VEHICLE TELEMATICS AND DATA LOGGING SYSTEM WITH ALL OPTIONS IN ONE PRODUCT

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RPM (x1000)(FMS)

FOX3 is a compact, all-in-one device combining all features of the successful FOX-IN/EN family into one single unit. FOX3 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. FOX3 is a configurable smart

tracking / data logging device which can be fully adapted to user requirements. FOX3 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 two models of the FOX3 available: FOX3 standard and FOX3-LITE. Both models are expandable via IOBOX-MINI, IOBOX-CAN and IOBOX-BLE.

TEMPERATURE (EMS





	General	Average Power Consumption	Interfaces
	Quad-Band 2G	Normal operation: 50mA @ 12 VDC	3 x Digital/analog IO ports programmable
Z	2G bands: 850/900/1800/1900 MHZ	Sleep mode: < 1mA @ 12 VDC	1 x Predefined digital input (Ignition)
0	Internet (TCP/UDP/HTTP/SMTP)	Environmental data	3 x LED indicators programmable
H	Multi channel GNSS (GPS+Galileo/GLONASS ²⁾)	Operating temp.: -40 °C to +85 °C	2 x RS-232 Ports (1 x V.24 level; 1 x RS-232/RS-485 ^{2) 5)}
СA	A-GPS (online / offline /autonomous)	Storage temp.: -40 °C to +85 °C	1 x 10pin Mini-USB connector (for IOBOX-MINI ¹⁾ ,
_	Protocols: NMEA, FALCOM (binary)	GSM ³): -40 °C to +85 °C	IOBOX-CAN ¹⁾ or IOBOX-BLE ¹⁾)
느	Accuracy: GPS GLONASS	Battery ⁴⁾ charging temp.: 0 °C to +45 °C	1 x 1-Wire interface (incl. 5V Phantom Power)
ප	Position: 2.5 m 4.0 m	Physical characteristics	1 x I ² C interface
ш	Acquisition / Sensitivity:	Dimensions (LxWxH): 105 mm x 83 mm x 28 mm	1 x 4pin audio jack interface (2.5mm)
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	Air humidity	1 x Inside SIM card holder for 1,8/3 V SIM cards
A	Sensitvity: -148 dBm -145 dBm	5% up to 95% non-condensing	1 x USB 2.0 interface
ပ	GPS Operational limits:	Serial Data Rates	Sensor / Measurement range
Z	Velocity: 500 m/s (972 knots)	Serial Ports: 4800115200bps (default=115200 bps)	3-axis Acceleration/Temperature
H	Altitude: 50.000 m	GSM / GNSS Antennas	- 3DG : ± 8g (programmable)
С Ш	Update rate: 1 Hz	Internal and external ²⁾ with automatic/manual switch	- Temperature: - 50 to + 120 °C (programmable) Processor core
Ē	Electrical characteristics Power supply: +10.8 V to +32-0 V DC		RTC + Calendar
	Internal Li-Polymer/Li-Ion 1000 mAh rechargeable battery ¹⁾		8 MB Flash(History / Firmware / Configuration
		A A P. M. MALL AND	o with hash (history / himware / conliguration
	 ¹⁰ Optional/Accessory ²¹ Activation with PFAL-Command. 	 Applicable with backup battery Hardware Premium Features: CAN-interface, RS-485 port 	
	The GSM/GPRS module is fully functional (-20 °C to + 55 °C meets the 3GPP specifical)		
\$	State-of-the-art 2G and GNSS technology	Customizable firmware configuration	 Hardware expandable via IOBOX-MINI ¹, IOBOX-CAN ¹, IOBOX-BLE ¹
ITS	3-axis acceleration, internal temperature sensors	Multi-function I/Os	Internal GSM/GNSS antennas with connectors
GH	Gyro / Magnetic sensors (external only)	Optional battery back-up ¹⁾	for optional external antennas ¹
Ξ	Drop-in replacement of previous FOX-generation	Display connectivity (JAZZ2)	 Communication via USB 2.0 interface
ніснгісн	Sensor interfaces via RS-232/RS-485/1-Wire/CAN	Audio interface (SPK+MIC)	Support connection with Garmin devices
Ŧ	FALCOM PFAL programming language	Data-Logger functionality	• E1/CE approved
	Passive/active RFID connectivity via RS-232	CAN/FMS, CAN-OBDII interface ⁵⁾	
щ	Embedded TCP/IP stack for client-server application	20 programmable Timers, Triggers, Counters, nvCoun	ters RFID and sensor-based application
AB	FALCOM protocols: IOP, GSM, AREA, 3DP, BIN	• 3000 programmable Geofences, 32 Areas, 2000 Way	points • FALCOM PREMIUM feature supported
N	Supports SMS/USSD/Voice call/TCP/IP/UDP/SMTP/HTTP	Report by distance, time, bearing and on demand	Over-the air-access (OTA)
IRMWARE	Local and remote firmware update and configuration	Drivers Logbook / History / Trip management	
E			
	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
AF	Waste management	Route verification	Compatible with D2Sphere server and
	Public transportation	Trip management / distance calculations	configurable for using other TCP servers
-KIT	PROMOTION KIT for FOX3-2G device provides all the n quickly evaluate this product and all ist functionalities. T		nline documentation and <i>D2Sphere</i> server to easily and
ż			-sheet with access data to online documentation and
0			Sphere server
E			-paid SIM card. Service fee includes 10MB of data
ΟW	4 - Backup battery 1	2 - UK/US Plug travel adapter tran	sfer and 3 months access to the D2Sphere server for
0			luation purposes
ΡR	8 - USB to Serial Converter	16 - 8 h	ours free technical support
В		$((\cdot, \cdot))$	SMS
SERVER	GNSS		SIMS
Ë	The share of the state	SSM A 2G	
ler		ТСР	
hq			
D2Sphere		Internet	
	FOX3 (2G) APPLICATION AREA	COMMUNICATION NETWORK WEB	SERVER USER-INTERFACE (e.g. D2Sphere)
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