

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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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

FOX312G

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



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General Average Power Consumption Interfaces Quad-Band 2G 3 x Digital/analog IO ports programmable Normal operation: 50mA @ 12 VDC 2G bands: 850/900/1800/1900 MHZ 1 x Predefined digital input (Ignition) Sleep mode: < 1mA @ 12 VDC C Internet (TCP/UDP/HTTP/SMTP) **Environmental data** 3 x LED indicators programmable Multi channel GNSS (GPS+Galileo/GLONASS²⁾) 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)} 4 1 x 10pin Mini-USB connector (for IOBOX-MINI 1), A-GPS (online / offline /autonomous) Storage temp.: -40 °C to +85 °C ى IOBOX-CAN¹⁾ or IOBOX-BLE¹⁾) Protocols: NMEA, FALCOM (binary) GSM³⁾: -40 °C to +85 °C ш Accuracy: GPS GLONASS Battery⁴⁾ charging temp.: 0 °C to +45 °C 1 x 1-Wire interface (incl. 5V Phantom Power) ے 2.5 m 4.0 m Physical characteristics 1 x I²C interface Position: ш 1 x 4pin audio jack interface (2.5mm) Acquisition / Sensitivity: Dimensions (LxWxH): 105 mm x 83 mm x 28 mm Δ 1 x CAN-Bus Interface^{2) 5)} (uses 2 of 3 I/Os) Cold Start: 29 s 30 s Weight: approx. 130 g S 1 x Inside SIM card holder for 1,8/3 V SIM cards -161 dBm Air humidity Tracking: -158 dBm Sensitvity: -148 dBm -145 dBm 5% up to 95% non-condensing 1 x USB 2.0 interface GPS Operational limits: **Serial Data Rates** Sensor / Measurement range ت Z Velocity: 500 m/s (972 knots) Serial Ports: 4800...115200bps (default=115200 bps) 3-axis Acceleration/Temperature **GSM / GNSS Antennas** - 3DG: ± 8g (programmable) Altitude: 50.000 m I - Temperature: - 50 to + 120 °C (programmable) ى Update rate: Internal and external² with automatic/manual switch 1 Hz ш **Electrical characteristics Processor core** RTC + Calendar Power supply: +10.8 V to +32-0 V DC 8 MB Flash (History / Firmware / Configuration Internal Li-Polymer/Li-Ion 1000 mAh rechargeable battery¹⁾ Optional/Accessory Activation with PFAL-Command. The GSM/GPRS module is fully functional (-20 °C to + 55 °C meets the 3GPP specifications) Applicable with backup battery Hardware Premium Features: CAN-interface, RS-485 port Storage and using conditions of the device with battery option are limited to the battery temperature range State-of-the-art 2G and GNSS technology Customizable firmware configuration Hardware expandable via IOBOX-MINI¹⁾, 0 IOBOX-CAN¹⁾. IOBOX-BLE¹⁾ 3-axis acceleration, internal temperature sensors Multi-function I/Os HIGHLIGHT Internal GSM/GNSS antennas with connectors Gyro / Magnetic sensors (external only) Optional battery back-up¹⁾ 0 for optional external antennas¹⁾ Drop-in replacement of previous FOX-generation Display connectivity (JAZZ2) Communication via USB 2.0 interface Sensor interfaces via RS-232/RS-485/1-Wire/CAN Audio interface (SPK+MIC) Support connection with Garmin devices FALCOM PFAL programming language 6 Data-Logger functionality E1/CE approved Passive/active RFID connectivity via RS-232 CAN/FMS, CAN-OBDII interface 5) 0 Embedded TCP/IP stack for client-server application 20 programmable Timers, Triggers, Counters, nvCounters RFID and sensor-based application FIRMWARE FALCOM protocols: IOP, GSM, AREA, 3DP, BIN 6 3000 programmable Geofences, 32 Areas, 2000 Waypoints FALCOM PREMIUM feature supported Supports SMS/USSD/Voice call/TCP/IP/UDP/SMTP/HTTP ۲ Report by distance, time, bearing and on demand Over-the air-access (OTA) Local and remote firmware update and configuration \bigcirc Drivers Logbook / History / Trip management Multi power-saving modes and wake up conditions Intelligent and flexible configuration alarms \bigcirc Real time online tracking Security / Emergency / Insurance services (UBI) Driving behaviour / Eco-Drive monitoring Fleet management / monitoring 0 Real time satellite navigation Toll collection / Pay-As-You-Drive (PAYD) Sddv Ó Car sharing ۲ Territory management Theft protection Waste management Route verification 6 Compatible with D2Sphere server and Public transportation Trip management / distance calculations configurable for using other TCP servers PROMOTION KIT for FOX3-2G device provides all the necessary hardware, software, and access data to the online documentation and D2Sphere server to easily and PROMOTION-KI quickly evaluate this product and all ist functionalities. This kit consists of: 1 - FOX3 (2G) standard unit, pre-configured 9 - CA31 - Main port installation cable + UCOM 14 - Info-sheet with access data to online documentation and 10 - CA69 - Accessory port cable + UCOM 2 - PREMIUM-FEATURES (all activated) D2Sphere server 11 - AC/DC Power adapter 12V-1A 3 - Control-Box 15 - Pre-paid SIM card. Service fee includes 10MB of data 12 - UK/US Plug travel adapter 4 - Backup battery transfer and 3 months access to the D2Sphere server for 5 - FAL-ANT-11 13 - Instruction sheet evaluation purposes 8 - USB to Serial Converter 16 - 8 hours free technical support **D2Sphere SERVER** SMS GSM 2G TCF Internet USER-INTERFACE (e.g. D2Sphere) FOX3 (2G) APPLICATION AREA COMMUNICATION NETWORK 1 WEB SERVER 1 FALCOM GmbH | Gewerbering 6 | 98704 Langewiesen | GERMANY | Phone: +49 (0)3677 8042 0 (no support) | Fax : +49 (0)3677 8042 215 | e-Mail: info1@falcom.de

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