FALCOM

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 pricing, asset and workforce tracking and security, precision farming.

IOBOX-CAN

2nd CAN-Bus interface and I/O expansion box for the FOX3 & FOX3-3G

PRODUCT OVERVIEW

IOBOX-CAN is a high-quality accessory device for the FOX3/-3G that connects to the vehicle's CAN Bus and with the help of the FOX3/-3G, it accesses CAN protocols, reads CAN messages by identifiers (PIDs) in real time and transfers this data to a remote TCP server for decoding and analysing. This interface works independently from the first CAN interface on the FOX3/-3G and both interfaces can read data from 2 different busses (e.g. FMS and Tachograph) at the same time with up to 1Mbps per bus.

It offers additionally 8 x I/Os ports for almost every application within the automobile industry. 4 of these I/O ports can be used as analogue inputs and alternatively as digital inputs as specified by the firmware in the FOX3/-3G device. The other 4 x I/Os are open collector digital outputs that can be programmed individually to activate devices such as relays, indicators, or other on/off devices with up to 100mA. The digital outputs work as active high (on) or active low (off).

The IOBOX-CAN contains a mini-USB connector which plugs directly into the FOX3/-3G and with the grips on both sides it locks in place by forming a vibration-proof connection.

APPLICATIONS

IOBOX-CAN

extends the functionality of

your **FOX3/-3G** by additional

1 x CAN BUS interface & **8 x I/O ports**

Accessory cable:
- CA38-STEPPIII-KFZ-1,5M

TECHNICAL SPECIFICATION

- **Physical Interfaces**

  16pin Molex connector
  - 4 x Digital/Analog input: 0...+52 VDC (12 bit ADC)
  - 4 x Digital output: 0..32 VDC, open-drain, up to 100mA
  - 1 x CAN Bus Interface (up to 1 Mbit/s)
  - 2 x Ground (GND & CAN-GND)
  - 1 x K+L-Lines (planed for 2016)
  - 1 x VCAN (Input voltage: +12VDC)
  - 1 x VOUT (Voltage output 5 VDC, Imax ≤ 50mA)

  10-pin USB Mini-B type plug

- **Supported Communication Protocols**

  CAN, CAN-FMS, CAN-OBDII

- **Physical Characteristics**

  Current consumption: ~10 mA

  No external power supply necessary

  Dimensions (LxWxH): 44 mm x 22 mm x 22 mm

  Weight: 14 g

- **Operating Temperature Range**

  -40 °C ... +85 °C

- **Connection Interface (to FOX3/-3G)**

  via USB Mini-B type plug

- **Connection Cable :**

  CA38-STEPPIII-KFZ-1,5M (16-pin; cable length: 1,5 m)

- **Application areas:**

  - Construction cranes   - Road construction machinery
  - Off-road vehicles   - Heavy goods vehicles

Specifications and information given in this document are subject to change by FALCOM without notice. For latest product information v
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