

IOBOX-CAN

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

PRODUCT OVERVIEW

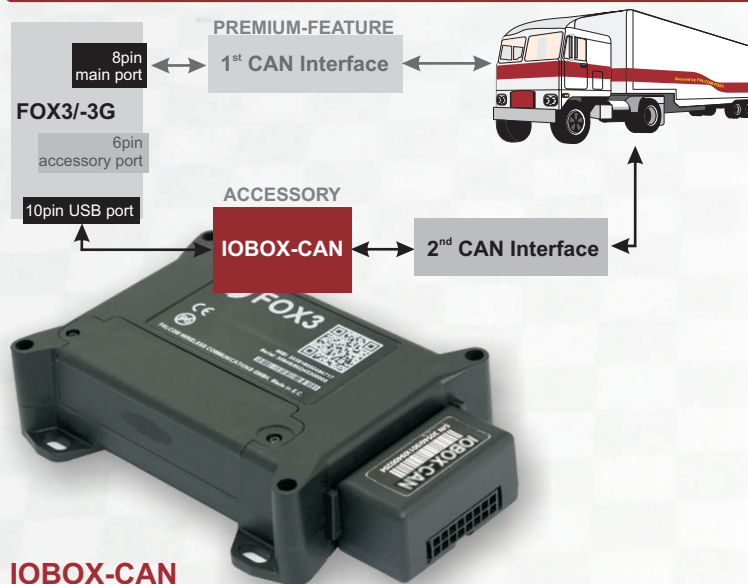
IOBOX-CAN is a high-quality accessory device for the FOX3/-3G that connects to the vehicle's CAN Bus and with the help of the FOX3/-3G, it accesses CAN protocols, reads CAN messages by identifiers (PIDs) in real time and transfers this data to a remote TCP server for decoding and analysing. This interface 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 (planned for 2016)
- 1 x VCAN (Input voltage: +12VDC)
- 1 x VOUT (Voltage output 5 VDC, I_{max} ≤ 50mA)

10-pin USB Mini-B type plug

Supported Communication Protocols

CAN, CAN-FMS, CAN-OBDDII

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