Sontheim

CANfox®

Small, mobile and cost-efficient

We live electronics!

CANfox®

The CANfox® is a VCI of the Sontheim fieldbus-to-USB adapter. Besides its CAN interface it contains a RS232 channel for a maximum of flexibility. The device can be used for monitoring of CAN networks, setting parameters of machines or vehicles etc.

Key Features

CAN 1× galv. isolated CAN interface acc. to ISO 11898

RS 232 1× RS232

Connection via USB 2.0

Free configuration of baud rate including 800 Kbit/s

32 bit Powerful 32-bit microcontroller

CODESYS CODESYS Gateway-driver available

MT-API Multi-Thread API for own applications

Driver for Windows 2000 up to Windows 10 with 32- and 64-bit

Housing and interfaces

It is housed in a compact plastic case and offers one RS232 and one galvanic isolated CAN interface. This is implemented via a D-Sub9 connector according to CiA standard. Its USB 2.0 interface enables the CANfox® to be used at any laptop, embedded PC or desktop PC. Once you have installed the driver you will benefit from hot plug and play, which is a connection of device to PC without restart. Consequently, CANfox® offers all necessary interfaces located in a tiny case for mobile or stationary use.

More performance, less costs

It is a powerful device within the Sontheim interface group with its 32-bit microcontroller for data-handling. However, the CANfox® is meant to be a flexible and very inexpensive tool. Thus, you can configure the baudrate via software and adapt it to your processes.

Technical Data

CPU	32-bit Microcontroller
CAN	1× CAN interface acc. to ISO 11898, via D-Sub9
RS232	1× RS232 interface, via D-Sub9
USB	1× Standard USB Typ A, 75 cm cable length
Baud rates	50 Kbit/s up to 1 Mbit/s, free configuration
Max. Data transfer	1 Mbit/s at 90 % Bus load
LEDs	3× 3 mm LED
Housing	compact plastic
Operating temperature	−20 °C up to +60 °C
Storage temperature	−40 °C up to +85 °C
Rel. Humidity	20 % – 90 % non-condensing
Power supply	via USB interface
CANAPI (=Windows DLL)	Windows 2000, XP, Vista, 7, 8; 32-bit. Windows 98 on request

Pin assignment

USB

1	VCC (VBUS)
2	− Data
3	+ Data
4	GND

CAN

2	CAN low
3	CAN Ground
7	CAN high

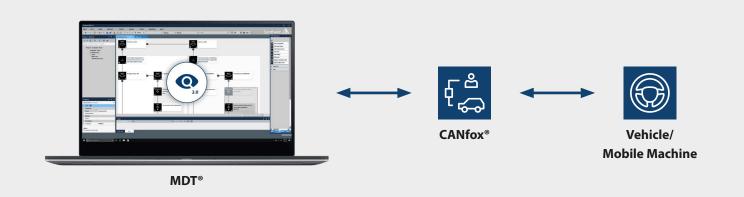**RS232**

2	TXD
3	RXD
5	GND

Comprehensive software support

Of course, CANfox® is supported by all Sontheim tools like CANexplorer 4 for CAN bus diagnostics or MDT® for vehicle applications like diagnostics or End-of-Line processes. With the help of the included software interface (API), users can also run their own software. There is also a CODESYS support implemented in order to use the device for PLC and motion control tasks. Use it as a programming gateway for CODESYS-based PLCs or for downloading programs directly out of a CODESYS programming environment.

The Sontheim Modular Diagnostic Tool Chain

You can easily create your individual and professional diagnostic solution for automotive application with the help of the Sontheim interfaces and diagnostic software. Some use cases by linking hardware and software are:

- CAN data visualization, monitoring and processing
- Parameterization and control of whole CAN networks
- Vehicle diagnostics
- Flash processes of electronic control units (ECUs)

MDT® ⟷ **CANfox®** ⟷ **Vehicle/ Mobile Machine**

Order information

V930322000	CANfox®	3

Mobile Automation

Industrial Automation

Diagnostics

Connectivity

We are looking forward to your enquiry!

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