CAN Interfaces

The communication interfaces of the CAN family make it possible to integrate send and receive tasks in all kinds of applications. Alternatively, the VCIs can also be operated with the D-PDU API for simple diagnostic tasks.

Areas of application

- Ordinary communication tasks
- Diagnostic applications for manufacturing and after-sales service
- Use for residual bus simulation with CanEasy

Benefits

- Active card with its own microcontroller
- Local data buffering and preprocessing in the interface
- Galvanic isolation
- Stable runtime behavior due to well established use

Different VCI Designs

CAN communication interfaces are an inexpensive alternative to diagnostic interfaces. The devices are available with different interfaces to the host PC and are equipped with one or two CAN channels. CANpro USB is the successor to the tried and tested CANusb and is suitable for all kinds of use cases as a universal VCI with USB high-speed interface. CAN-AC2-PCI and CANpro PCIe are available as PC plug- in cards for stationary use cases with one or two CAN channels both with CAN highspeed and CAN low-speed. The two CAN interfaces Leaf Light HS v2 and USBcan II HS/LS made by our cooperation partner Kvaser complement the product range by providing two affordable CAN interfaces for particularly price-sensitive cases. With Kvaser Leaf Pro HS v2 and USBcan Pro 2xHS v2, a one-channel and a two-channel interface with support for CAN FD have been included in the range.

Powerful programming interfaces

The communication software of the CAN API provides highly efficient communication mechanisms for CAN applications. Local data buffering and preprocessing on the VCI result in high performance and a reduction of time-critical tasks for the PC. Combining one of the CAN communication interfaces with the appropriate API software enables compact solutions for all kinds of communication applications. The CAN API thus supports reliable CAN communication on layer 2 in a simple way. For real-time applications, the very comprehensive and flexible CAN Layer2 API supports different object buffer modes and an FIFO mode, which is particularly suitable for linking higher protocol layers. The optional D-PDU API software makes communication channels with higher diagnostic protocols available to applications via the standardized API and thus relieves the application of standard tasks.

CANpro USB

One-channel CAN interface with sturdy aluminum housing and USB port.
https://automotive.softing.com/products/vehicle-communication-interfaces/can-family/canpro-usb.html

CAN-AC2-PCI

One/two channel CAN interface as PCI plug-in card, optionally CAN low-speed.
https://automotive.softing.com/products/vehicle-communication-interfaces/can-family/can-ac2-pci.html

CANpro PCI Express

One/two channel CAN interface as PCIexpress plug-in card, optionally CAN low-speed.
https://automotive.softing.com/products/vehicle-communication-interfaces/can-family/can-pro2-pcie.html

Leaf Pro HS v2

One-channel CAN FD interface
https://automotive.softing.com/products/vehicle-communication-interfaces/can-family/leaf-light-hs-v2.html

USBcan II HS/LS

Two-channel CAN interface HS/LS
https://automotive.softing.com/products/vehicle-communication-interfaces/can-family/usbcanii-hs/ls.html

USBcan Pro 2xHS v2

Two-channel CAN FD interface
https://automotive.softing.com/products/vehicle-communication-interfaces/can-family/usbcanii-hs/ls.html

The VCIs are available with several programming interfaces

- D-PDU API compliant with ISO 22900-2
- PassThru API compliant with SAE J2534
- CAN Layer2 API
- VCF API

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Features

No features listed.