

USBcanII HS/LS

CAN Bus USB Interface for Vehicle Electronics

CAN communication interfaces are an inexpensive alternative to diagnostic interfaces. The USBcanII HS/LS and the USBcan Pro 2xHS from KVASER are powerful hardware interfaces to be used for simple communication tasks in Engineering and Development.



Areas of Application

- Simple communication tasks
- Simulation
- Test/validation
- Applications in Development and Engineering

Advantages

- Active interface with its own microcontroller
- 2 separate CAN channels with CAN high-speed and CAN low-speed (USBcanII HS/LS)
- Communication with 2 channels Classic CAN or CAN FD (USBcan Pro 2xHS)
- Easy to use
- Lightweight and smart housing
- Inexpensive solution

CAN API

The programming interface from KVASER-Interfaces provides powerful communication mechanisms for CAN applications. Local buffering and preprocessing on the VCI result in high performance and a reduction of time-critical tasks for the PC.

D-PDU API

The standardized programming interface provides applications with powerful multi-channel communication mechanisms with vehicle protocols, such as Diagnostics on CAN (ISO 15765) and UDS (ISO 14229). It also allows integration into diagnostic systems in accordance with ISO 22900 (MVCI). D-PDU API is also available as an option.

Scalability

If your application requires more than one CAN bus at any time, the number of communication channels available at the PC can quickly be extended. This is simple to organize by combining the existing CAN interface with further CAN or EDIC® interfaces from Softing.

Flexibility

Combining USBcanII HS/LS with appropriate API software enables compact solutions for all kinds of communication applications. The KVASER programming interface thus supports reliable CAN communication on Layer2 in a simple way. 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.



Technical Data

Format	Approx. 46 x 115 x 22 mm
Power supply	5V via USB interface, alternatively 9 – 30V via CAN bus connector
Current consumption	Typ. 130 mA via USB, alternatively approx. 850mW with power supply via CAN
Microcontroller	16-bit microcontroller
PC interface	USB, Full Speed (12 Mbit/s), pluggable USB cable (type B jack)
Vehicle interface	2 x CAN 2.0B with 11-/29-bit identifier, D-Sub 9 connector in acc. with CiA standard - CAN high-speed transceiver in acc. with ISO 11898 - CAN low-speed transceiver (TJA1054) Not galvanically isolated from PC interface Support of 2 x CAN FD / Classic CAN with USBcan Pro 2xHS
Status display	LED for power supply status LED for CAN1 and CAN2 status LED for error status
USB cable	Approx. 50 cm with standard USB connector type A
CAN cable	Approx. 30 cm with D-Sub 9 connector
Temperature range	-40 ... +85 °C
EMC conformity	Noise emission: EN 55022 Class B Interference immunity: EN 61000-6-2 (industrial environment) FCC part 15 subpart B limit A (industrial environment)
Software interface	CAN Layer2 API from Kvaser (not 100% compatible to Softing CAN L2 API) D-PDU API software license (ISO 22900-2), for use together with DTS or OTX products
System requirements	Operating system: Windows 7 / 8 / 10 For diagnostic applications see data sheet D-PDU API

Order Numbers

USBcanII-HSLS	CAN USB interface with 1x CAN high speed channel and 1 CAN low speed channel at D-SUB9 connector; incl. USB cable and CAN-Schicht 2 API
USBcan-Pro-2xHS-v2	CAN USB interface for CAN FD with 2 x CAN high speed channel at D-SUB9 connector; incl. USB cable and CAN-Schicht 2 API

Supplementary Products and Services

KAB08-DSUB9-J1992	Connecting cable to OBD connector (SAE J1962 / ISO 15031-3), cable length approx. 2 m
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