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CANusb

CAN Bus USB Interface for Vehicle Electronics

CAN communication interfaces are an inexpensive alternative to diagnostic interfaces. CANusb and Softing's standard CAN-API form a powerful hardware interface for communication tasks. Alternatively, the VCI can be operated with the D-PDU API.



AREAS OF APPLICATION

- ECU engineering
- Simulation
- Test/validation

ADVANTAGES

- Active card with its own microcontroller
- Local data buffering and preprocessing
- Standard design with CAN high-speed transceiver
- Product variant CANusb-CAR available with an additional integrated CAN low-speed transceiver, can be switched via software
- Galvanic isolation

CAN APIs

The CAN-API, which is standard for all CAN interfaces from Softing, 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. Special automation APIs, such as CANopen and DeviceNET-API, are also available.

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 CANusb interface with further CAN or EDIC® interfaces from Softing.

Flexibility

Combining CANusb with appropriate API software enables compact solutions for all kinds of communication applications. The standardized Softing CAN-L2-API 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. 110 x 55 x 25 mm
Power supply	5V (via USB interface)
Current consumption	Typ. 300 mA
Microcontroller	16-bit microcontroller Infineon C165
PC interface	USB, Full Speed (12 Mbit/s)
Vehicle interfaces	1 x CAN at D-Sub 9 connector, in acc. with CiA standard Galvanically isolated from the PC interface Variable transceiver package depending on the product variant CANusb: transceiver for CAN high-speed (in acc. with ISO 11898-2) CANusb-CAR: transceiver for CAN high-speed (in acc. with ISO 11898-2) and CAN low-speed (TJA1053 or compatible), switchable via software
CAN controller	SJA1000
Temperature range	Operation: 0 ... +55 °C, storage: -25 ... +85 °C
EMC conformity	Noise emission: EN 55022, EN 55011 Class A and EN 61000-6-4 (industrial environment) Interference immunity: EN 61000-6-2 (industrial environment) FCC part 15 subpart B limit A (industrial environment)
Software interface	CAN L2 API from Softing
Delivery scope	CANusb USB cable (approx. 1 m) CD with CAN-API software, manual as PDF file
System requirements	Operating system: Windows 7, Vista, XP

Order Numbers

CANusb	CANusb hardware with CAN high-speed transceiver
CANusb-CAR	CANusb hardware with transceiver for CAN high-speed and CAN low-speed, switchable via software

Supplementary Products and Services

PDUAPI-EC	Upgrade D-PDU API software for EDIC and CAN hardware from Softing on data carrier

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