

HSD Interface - preliminary

Compact USB Interface for Vehicle Electronics

The USB interface HSD is a powerful and compact VCI. The combination of sturdiness, compact design and attractive price makes this VCI the perfect choice for use in the Manufacturing and After-Sales Service environment.



Protocol Handling in the Interface

The vehicle protocols are handled directly in the interface. This ensures fast response times and reliable real-time behavior regardless of the PC operating system. Extensive buffer mechanisms make parallel operation of several communication channels possible.

Software Interfaces

The communication protocols UDS (ISO 14229), KWP 2000 (ISO 14230, ISO 15765) as well as SAE J1939 are supported via the standardized D-PDU API (ISO 22900-2). The VCI can also be used as a PassThru device in accordance with SAE J2534. Together with the Diagnostic Tool Set DTS from Softing, a total solution in accordance with the MCD-3D standard ISO 22900-3 and ODX technology can be realized.

Scalability

By combining several HSD interfaces (or even other EDIC® interfaces), the number of communication channels available on the PC system can quickly be adapted to the relevant application.

Flexibility

Software upgrades are also available for HSD ensuring it is always perfectly equipped for future applications. This is also the way to realize customer-specific software solutions.

AREAS OF APPLICATION

- Universal use in Manufacturing and After-Sales Service
- Simulation
- Test/validation
- Fast and reliable flash programming

ADVANTAGES

- 2 independent channels: 1 x CAN and 1 x ISO 9141
- Data preprocessing and protocol handling in the interface
- Power supply via USB
- Status display
- Galvanic isolation
- Robust and compact design

Technical Data

Format	Approx. 65 x 85 x 25 mm
Power supply	5 V via USB
Automotive voltage range	8 to 32 V
Microcontroller	32-bit microcontroller
PC interface	USB V1.1 Full Speed, 12 Mbit/s, pluggable USB cable (type B jack)
Vehicle interface	D-Sub 15-pin, all signals galvanically isolated from the PC interface
CAN	One CAN channel high-speed in acc. with ISO 11898-2 and CAN 2.0B with 11-/29-bit identifier
ISO 9141-2	K- and L-line for 12V and 24V vehicle systems; baud rate max. 250 kBaud (depending on the protocol and bus physics)
Temperature range	Operation: 0 ... +50 °C, storage: -40 ... +85 °C
EMC conformity	Noise emission: EN 55011 Interference immunity: EN 61000-4
Software interface	D-PDU API from samtec
System requirements	Operating system: Windows 7, Vista, XP

Order Numbers

HSD	HSD interface for CAN and ISO 9141-2 with USB interface, including USB cable as well as D-PDU API and PassThru software KAB15-DSUB15-J1962: connecting cable to OBD connector (SAE J1962 / ISO 15031-3), cable length approx. 2 m
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Supplementary Products and Services

KAB15-DSUB15-J1962	Connecting cable to OBD connector (SAE J1962 / ISO 15031-3), cable length approx. 2 m
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