

D-PDU API

Hardware and Software Products

The Standard for Diagnostic Solutions

As part of the ISO standardization MVCI (Modular Vehicle Communication Interface), the D-PDU API has been specified as the standard API interface to vehicle interface hardware in ISO22900-2. It enables standardized hardware and software components to be used in systems for vehicle communication and diagnostics. The associated exchangeability of components gives the user much greater flexibility in constructing a system in comparison to previous solutions. The selection of the right components for his application and the easy portability of his applications play a major part in reducing costs.

SOFTING played an active role in MVCI standardization from the very beginning and offers an extensive portfolio of hardware and software products with a D-PDU API interface.

Areas of Implementation and Applications

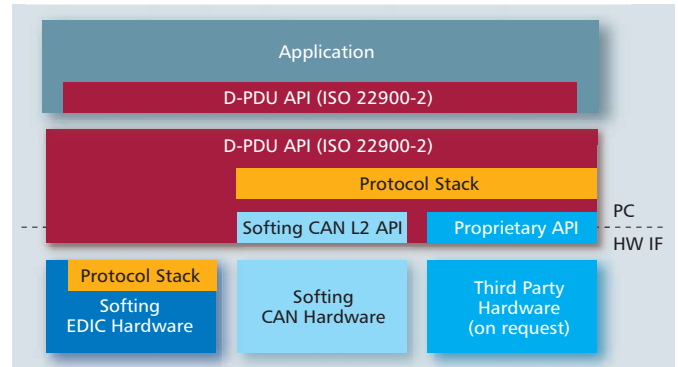
Hardware and software components with a D-PDU API interface can be used in all applications for vehicle communication via bus systems, such as CAN. Applications for diagnostics and flash programming in particular can use the advantages of the D-PDU API in hardware connection and ECU communication via standardized protocols, such as UDS.

Depending on the application, the D-PDU API is accessed directly by the application or via a diagnostic server in accordance with ISO22900-3. SOFTING offers suitable products for both variants. This means that D-PDU API software with an open API interface is available for SOFTING vehicle interfaces. In addition, all DTS products (SOFTING Diagnostic Tool Set) support vehicle interfaces with a D-PDU API interface.

Advantages

Vehicle interfaces with a D-PDU API interface provide powerful mechanisms for data exchange with ECUs. The communication protocols are handled completely within the D-PDU API software. This means the user no longer has to deal with complex, protocol-specific mechanisms (e.g. FlowControl, segmentation). In connection with the standardized communication parameters, a simple portability or extension of existing applications is attained for new application scenarios. The capacity for parallel

Data Sheet



Hardware and software products with D-PDU API

communication with several ECUs, even via different bus systems, ensures high flexibility and scalability in the realization of a whole range of projects.

Tools such as DTS-Monaco can be operated with any D-PDU API interfaces as the D-PDU API interface is supported by the Diagnostic Tool Set (DTS). This means that the tried-and-tested diagnostic server DTS-COS is easy to link to application-specific interface hardware with testing, manufacturing and service tester applications.

An Overview of Features

- D-PDU API software for vehicle interfaces and DTS
- Open, standardized API interface in accordance with ISO22900-2
- Standardized communication protocols and parameters, coordinated with ODX
- Parallel communication on several links
- Event-driven application interface
- Powerful communication mechanisms
- Standardized system integration

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Data Sheet**D-PDU API: Hardware and Software Products****Product Overview**

The D-PDU API software for vehicle interfaces is available for EDIC and CAN interfaces by SOFTING. Currently, the following communication protocols are supported:

On CAN bus:

- KWP2000 on CAN
- ISO UDS on CAN
- ISO 11898_RAW
- KW1281 on VW TP1.6
- KWP2000 light plus on VW TP1.6
- KWP2000 light plus on VW TP2.0

On K-Line:

- KWP2000
- KW1281

Additional communication protocols are available on request.

D-PDU API for EDIC Vehicle Interfaces by SOFTING

The D-PDU API software is available for the vehicle interfaces EDICcard2, EDICusb, EDICblue, EDICpci and EDICwlan. A software upgrade is available for retrofitting existing EDIC interfaces with D-PDU API software.

Unlike other vehicle interfaces, the protocol stack is realized as embedded software with all EDIC interfaces. Reliable real-time behavior is ensured as the stack is thus executed directly on the interface hardware – independent of the PC.

D-PDU API for CAN Vehicle Interfaces by SOFTING

The D-PDU API software is available for the CAN interfaces CANcard2, CAN-AC2, CANusb and CAN-PRO2-PCIE. A software upgrade is available for retrofitting existing CAN interfaces with D-PDU API software.

D-PDU API Software for third-party Vehicle Interfaces

Vehicle interfaces from third parties with a proprietary interface can be equipped with D-PDU API software. This means that existing interfaces can be integrated into new applications with a D-PDU API interface.

D-PDU API Solution Competence

SOFTING customers are supported in a target-oriented manner in their projects. Particularly with new projects in connection with D-PDU API, D-Server and ODX – particularly with problems on migration of old systems – SOFTING can implement its existing expertise to great effect.

Order number**PDUAPI-EC**

- Upgrade of D-PDU API software for EDIC- and CAN-hardware by SOFTING on data media.

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