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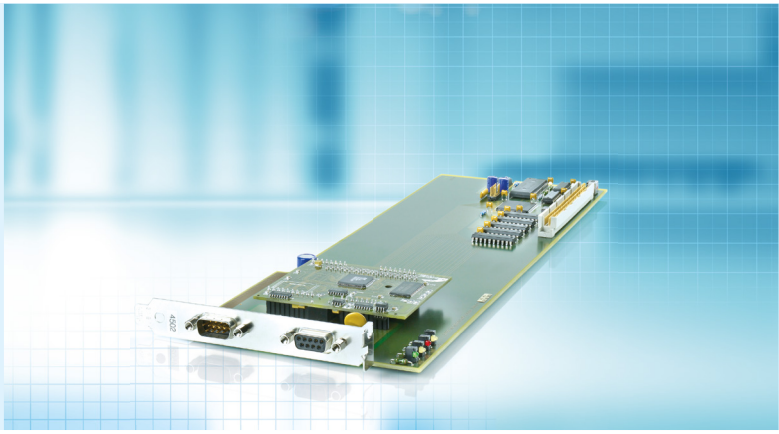
Find the *dSPACE DS4502-01* at our website: ***Click HERE***

PROFIBUS Interface

Interface to a PROFIBUS communication bus

Highlights

- Connects dSPACE systems to the PROFIBUS Network
- Dual-port memory for data exchange with processor board
- Master or slave PROFIBUS modules available



Application Areas

Processing closed-loop and open-loop control information for machinery and systems with the aid of powerful microchips is widespread in modern automation technology. As a rule, the processors are connected by one or more communications networks. The PROFIBUS interface connects dSPACE Simulator and dSPACE prototyping systems to PROFIBUS networks to develop controller technologies for factory automation, decentralized peripherals, and motion control, for example.

Key Benefits

The PROFIBUS Interface is equipped with the PHS++ bus interface and can therefore communicate with the dSPACE modular hardware at very high speeds. The maximum possible baud rate for PROFIBUS communication is 12 Mbaud. A sample setup with a ControlDesk® experiment comes with the interface to explain the basic implementation of dSPACE modular hardware in PROFIBUS environments.

PROFIBUS

The PROcess-FIeld-BUS is a vendor-independent, open field bus standard for a wide range of applications in manufacturing and process automation. Vendor independence and openness are ensured by the international standards IEC 61158 and IEC 61784. PROFIBUS allows communication between devices from different manufacturers without any special interface adjustment. PROFIBUS can be used for both high-speed time critical applications and complex communication tasks. It utilizes a nonpowered two-wire (RS485) network and can have up to 126 nodes.

dSPACE GmbH • Rathenaustraße 26 • 33102 Paderborn • Germany • info@dspace.de • www.dspace.com
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Technical Details

Parameter		Specification
General		■ Direct connection to the field bus ■ Communication without load on the host system ■ Dual-port memory for data exchange with processor board ■ 9-pin Sub-D connector for connection to PROFIBUS ■ C device driver functions for communication ■ PROFIBUS access and message composing via S-functions, based on dSPACE examples
Technical data	Free potential	■ RS485
	Transmission rate	■ 12 Mbaud
	Diagnostic interface	■ RS232C, nonisolated
Supported standards		■ PROFIBUS
Host interface		■ One 8- or 16-bit ISA slot (power supply only)
Physical characteristics	Physical size	■ Full-length ISA board
	Ambient temperature	■ 0 … +55 °C (32 … 131 °F)
	Power supply	■ +5 V ±5%, 0.7 A ■ ±12 V ±5%

Order Information

Product	Order Number
PROFIBUS Interface	Please inquire

Relevant Software and Hardware

Software		Order Number
Included	■ Hilscher SyCon® configuration software	–
Required	■ dSPACE Software Release with RTI[1)]	–
	■ dSPACE PROFIBUS Solution[1)] (DS1005, DS1006, DS1007)	–

[1)] *Please contact dSPACE for appropriate version.*

Hardware		Order Number
Included	■ DS4502 carrier board	■ DS4502
	■ Hilscher Module COM-PB (master) or COM-DPS (slave)	–

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