

PBpro PROFIBUS Interface Boards

Integrate Fieldbus Technology into Machines and Systems

Your Requirement

Your PC-based devices and systems must offer a PROFIBUS interface to communicate with various industrial components connected through a PROFIBUS network.

Our Solution

The PBpro interface board family includes single and dual channel PROFIBUS boards in the following form factors: Universal PCI, PCI Express and PC/104plus. The boards can be configured to operate as a PROFIBUS Master and/or Slave. The on-board micro-controller combines excellent response times with high data throughput. The range of applications for these high performing, yet economical boards includes, but is not limited to, high-speed machine control, supervisory applications, and compact slave integration. The boards offer a number of standardized interfaces that facilitate a straightforward integration with your software. The industry-hardened and flexible PBpro interface boards are the perfect choice for customer specific applications.

Benefit from our Experience

Our expertise combined with our outstanding customer support ensures a successful project execution. Benefit from Softing's 20 years of experience in fieldbus technology for your custom design product to achieve the best possible outcome.

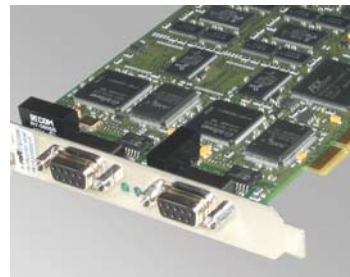
PBpro –
A perfect solution
for a wide
range of applications



Product Information



PBpro-Interface-Boards:
High-performance, flexible,
economical –
**The perfect choice to connect
your system with PROFIBUS**



Our Offer – Your Benefit

- High performance due to onboard micro-controller
- Engineer-to-engineer OEM support during design phase for best possible integration
- Strict quality standards, scalability, and long-term product availability ensure your investment
- Customer specific modification also for low volume products
- PBpro PC/104plus board available for extended temperature range (-25° C to +75° C) applications
- On request, additional qualification tests based on your requirements or area of application
- Softing's user-friendly API is identical for all PROFIBUS boards
- Numerous demo applications for various development environments and programming languages ensure short development cycles
- The free-of-charge Access-Kit facilitates an effective integration into real-time systems
- Optional DP-V2 integration to incorporate redundancy switching and application supervision
- Comprehensive PROFIBUS workshops
- Free-of-charge engineer-to-engineer support
- All interface boards are in stock

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Product Information

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Service – Succeed with our Help

We offer comprehensive consulting services before you make your buying decision. Our team of experts is ready to support you during your product development cycle. In addition, we offer engineering services that range from customization activities at a very economical rate to the execution of the entire product development cycle. Our service offer is complemented by a series of dedicated training classes that are tailored to provide information pertaining to your project. Finally, our support team is always available to help you with your project. Take advantage of our experience and excellent support to develop a first-class product while at the same time significantly shorten your time-to-market.

Check our web page for more information on our training program.

Technical Product Overview

PROFIBUS protocols	<ul style="list-style-type: none"> ■ Master DP-V0 and DP-V1 (DP-V2 is available for customer-specific integration) ■ FDL layer 2, FMS ■ Slave DP-V0
Communication	Master or slave operation can be selected individually for each channel
Transmission speed	9.6 kbit/s up to 12Mbit/s (incl. 45.45 kbit/s)
LED indicator	Communication LED
Temperature range	0°C up to +70°C (standard), -40°C up to + 85°C (extended)
Driver available for	Windows 7 / Vista / XP / 2000, Linux 2.6, QNX (optionally)
Supplemental software components	<ul style="list-style-type: none"> ■ free-of-charge Access-Kit for individual driver development (e.g. for VxWorks, RTX, CE, ...) ■ PROFIBUS configuration tool ■ PROFIBUS communication DTM for FDT engineering tools ■ OPC server and configuration tool for DP-V0 / DP-V1 ■ OPC server for S7 / S5

The single-channel PCI and PCI Express boards are also available with the short "low profile" bracket. There are also cost-optimized "DP slave only" boards. The PC104plus boards are also available for the extended temperature range.

Variants and Part numbers	PROFIBUS-channels	Protocols		Operating temperature		Board format			Part number
		master	slave	0...70°C	-40...85°C	full height	low-profile	dimensions in mm	
Universal PCI interface boards	1	●	●	●		●		168 x 64	PB-PRO1-PCI
	1	●	●	●			●	168 x 64	PB-PRO1-PCI/LP
	2	●	●	●		●		168 x 107	PB-PRO2-PCI
	1		●	●		●		168 x 64	PB-PRO1S-PCI
PCI Express-interface boards	1		●	●				168 x 64	PB-PRO1S-PCI/LP
	1	●	●	●		●		168 x 69	PB-PRO1-PCIE
	1	●	●	●			●	168 x 69	PB-PRO1-PCIE/LP
	2	●	●	●		●		168 x 103	PB-PRO2-PCIE
PC/104plus interface boards	1		●	●				90,2 x 96	PB-PRO1-PC104+
	1	●	●	●	●			90,2 x 96	PB-PRO1-PC104+XT
	1		●	●				90,2 x 96	PB-PRO1S-PC104+
	1		●	●				90,2 x 96	PB-PRO1S-PC104+XT

Designed for Versatility

Softing's PROFIBUS boards are globally used in a wide range of applications including:

- Machine Building
- Process Engineering
- Supply Engineering
- Food Processing Industry
- Robotic
- Automotive
- Railroad Engineering
- Process Supervision and Diagnostic
- Packaging Machines
- Building Automation
- Instrumentation
- Electronic Data Transmission
- Traffic-control Systems
- Off-Shore Installations
- Mining Industry
- Diagnostic Devices
- Recording Studios
- Research