

# PROFIBUS Interface Boards

## Active Interface Boards for Every Application

### Your Requirement

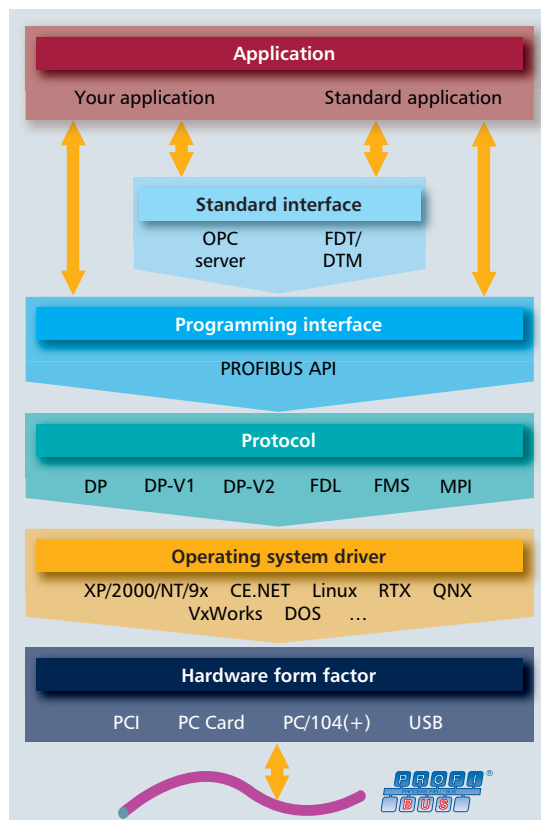
You need to quickly and easily connect your systems and devices to PROFIBUS as masters and/or slaves. And you want to support the latest standards – while achieving the highest performance at the best price.

### Our Solution

Softing offers PROFIBUS interface boards for a wide variety of applications including compact slave connections, solutions for mobile devices and operator and visualization stations, and fast and precise machine controls. We can even provide you with customized cards for special applications.

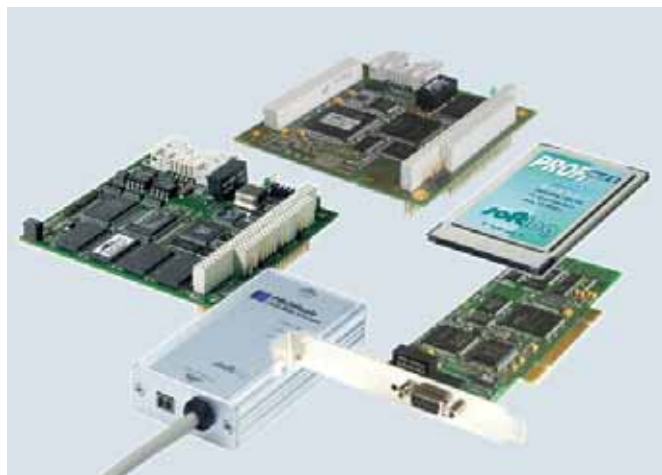
### The Right Board for You

Choose the ideal option from a variety of hardware form factors, operating system drivers, protocols and application interfaces.



Flexible integration of interface boards in your application

## Product Information



### Our Offer – Your Benefit

- Top performance through onboard microcontrollers
- Strict quality standards, scalability, and long-term product availability ensure your investment
- Fast integration thanks to simple user interface
- Common programming interface for all PROFIBUS boards
- Software drivers for a wide range of operating systems
- Numerous sample applications for various development environments and programming languages
- Customer-specific adaptations for optimal integration in your target system
- Free-of-charge engineer-to-engineer support
- All interface boards are in stock

### Our Experience

Benefit from our extensive experience with fieldbus systems and our large install-base. Softing is an independent company and a leader in providing key technology components to manufacturers of fieldbus devices. We actively participate in all major fieldbus standard working groups and take pride in continually improving our offer to meet new requirements. At the same time we ensure backwards compatibility so your investment with us includes the opportunity to enhance your existing product with the latest technology.



PROFIBUS Protocol	PCI pro Master/Slave <sup>1), 2)</sup>	PCI pro Slave <sup>1), 2)</sup>	PCI pro (dual channel) Master/Slave <sup>2)</sup>	PC/104plus Master/Slave <sup>3)</sup>	PC/104plus, Master/Slave, extended temperature range <sup>3)</sup>	PC Card Master	USB Master	PC/104 Master/Slave	PC/104 Master, extended temperature range	PC/104 Slave	
DP-V0, DP-V1 Master	✓	–	✓	✓	✓	✓	✓	✓	✓	–	
DP-V2 Master <sup>4)</sup>	✓	–	✓	✓	✓	✓	✓	–	–	–	
FMS	✓	–	✓	✓	✓	✓	–	✓	✓	–	
FDL	✓	–	✓	✓	✓	✓	✓	✓	✓	–	
DP Slave	✓	✓	✓	✓	✓	–	–	✓	–	✓	
<b>Fieldbus connection</b>											
Connector	9 pin D-Sub female (for PC104 and PC/104plus via ribbon cable), RS-485, galvanically isolated										
# of channels	1	1	2	1	1	1	1	1	1	1	
Transmission speed	9.6; 19.2; 45.45; 93.75; 187.5; 500; 1,500; 3,000; 6,000; 12,000 kbit/s										
<b>PC Interface</b>											
Interface	PCI 3,3V or 5V	PCI 3,3V or 5V	PCI 3,3V or 5V	PC/104plus (PCI)	PC/104plus (PCI)	PC Card (PCMCIA)	USB 2.0	PC/104	PC/104	PC/104	
Dual-Port-Memory	128 KB	128 KB	128 KB per channel	128 KB	128 KB	128 KB	–	16 KB	16 KB	16 KB	
Interrupts	Plug andPlay	Plug andPlay	Plug andPlay	Plug and Play	Plug and Play	Plug and Play	–	5, 10, 11, 12, 15	5, 10, 11, 12, 15	5, 10, 11, 12, 15	
<b>Environment / Dimensions</b>											
Operating temperature	0 °C .. +55 °C				-25 °C .. +75 °C		0 °C .. +55 °C		-25 °C .. +75 °C		0 °C .. +55 °C
Storage temperature	-20 °C .. +70 °C				-25 °C .. +75 °C		-20 °C .. +70 °C		-25 °C .. +75 °C		-20 °C .. +70 °C
Relative Humidity	< 90%, non-condensing										
Dimensions [mm]	168 x 56	168 x 56	168 x 107	90.2 x 96	90.2 x 96	PC Card type II	100 x 55	90.2 x 96	90.2 x 96	90.2 x 96	
<b>Power supply</b>											
Supply voltage	5V / 3.3V (± 5%) DC					5V (± 5%) DC	5V USB or 24V ext.	5V (± 5%) DC			
Current Consumption [mA]	typ. 500 / 200	typ. 500 / 200	typ. 700 / 300	typ. 500 / 200	typ. 500 / 200	typ. 350	typ. 400 (USB)	typ. 700	typ. 700	typ. 600	
<b>Certificates</b>											
CE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
FCC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
<b>Drivers available for <sup>5)</sup></b>											
Win Vista	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Win XP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Win 2003 Server SR2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Win 2000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Linux	✓	✓	✓	✓	✓	–	–	✓	✓	✓	
Miscellaneous	C), F)	F)	C), F)	C), F)	C), F)	A)	–	A), B), C), D), E), F)	A), C), D), E), F)	A), B), D), E), F)	
Part number	<b>PB-PRO1-PCI /LP<sup>1)</sup></b>	<b>PB-PRO1S-PCI /LP<sup>1)</sup></b>	<b>PB-PRO2-PCI</b>	<b>PB-PRO1-PC104+</b>	<b>PB-PRO1-PC104+XT</b>	<b>PB-PCcard2</b>	<b>PB-USB</b>	<b>PB-PC104-MS</b>	<b>PB-PC104-XT</b>	<b>PB-PC104-S</b>	

<sup>1)</sup> The single channel PCI pro is also available with a low profile slot bracket.

<sup>2)</sup> Universal PCI Interfaces support PCI 5V technology (e.g. Desktop-PCs) as well as PCI 3.3V technology (e.g. server).

<sup>3)</sup> also available as PCI/104

<sup>4)</sup> DP-V2 is available for customer-specific integration. Please contact us with your requirements.

<sup>5)</sup> Please visit our home page at [www.softing.com](http://www.softing.com) for a complete listing of all available drivers. Couldn't find a driver that suits your needs? Please contact us with your requirements.

A) Win NT/ME/98/95

B) DP Slave for DOS

C) VxWorks on request

D) Win CE

E) Ardence RTX

F) QNX: optional, no free download

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## Product Information

### PROFIBUS Interface Boards: Active Interface Boards for Every Application



### 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

## Supplemental Software Products for Softing PROFIBUS Boards

Our PROFIBUS interface boards work with a wide variety of standard applications and software interfaces:

PROFIBUS configuration tool	PROFI-KON-DP
PROFIBUS communication DTM for FDT engineering tools	DTM-PB-S (for 1 channel) DTM-PB-F (for more than 1 channel)
OPC server for PROFIBUS DP	OPC-PB
OPC-Server for S7/S5	OPC-S7

## 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 when applying our interface boards and 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 effectively create a first-class solution within very short time.

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