

PROFIBUS Interface boards - Technical data



PROFIBUS Protocol	PCI pro Master/Slave ^{1), 2)}	PCI pro Slave ^{1), 2)}	PCI pro (dual channel) Master/Slave ²⁾	PC/104plus Master/Slave ³⁾	PC/104plus Master/Slave, extended temperature range ³⁾	PC Card Master	USB Master	PC/104 Master/Slave	PC/104 Master, extended temperature range	PC/104 Slave	PCI Master/Slave	PCI Slave	PCI Master/Slave +Master	PCI Master+Slave
DP-V0, DP-V1 Master	✓	-	✓	✓	✓	✓	✓	✓	✓	-	✓	-	✓	✓
DP-V2 Master ⁴⁾	✓	-	✓	✓	✓	✓	✓	-	-	-	✓	-	✓	✓
FMS	✓	-	✓	✓	✓	✓	-	✓	✓	-	✓	-	✓	✓
FDL	✓	-	✓	✓	✓	✓	✓	✓	✓	-	✓	-	✓	✓
DP Slave	✓	✓	✓	✓	✓	-	-	✓	-	✓	✓	✓	✓	✓
Fieldbus connection	PCI pro Master/Slave ^{1), 2)}	PCI pro Slave ^{1), 2)}	PCI pro (dual channel) Master/Slave ²⁾	PC/104plus Master/Slave ³⁾	PC/104plus Master/Slave, extended temperature range ³⁾	PC Card Master	USB Master	PC/104 Master/Slave	PC/104 Master, extended temperature range	PC/104 Slave	PCI Master/Slave	PCI Slave	PCI Master/Slave +Master	PCI Master+Slave
Connector	9 pin D-Sub female (for PC104 and PC/104plus via ribbon cable), RS-485, galvanically isolated						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	1	1	2	2
Controller	ASPC2	ASPC2	2xASPC2	ASPC2	ASPC2	ASPC2	ASPC2	ASPC2 + SPC3	ASPC2	SPC3	ASPC2 + SPC3	SPC3	2xASPC2 + SPC3	ASPC2 + SPC3
Transmission speed	9.6; 19.2; 45.45; 93.75; 187.5; 500; 1,500; 3,000; 6,000; 12,000 kbit/s						9.6; 19.2; 45.45; 93.75; 187.5; 500; 1,500; 3,000; 6,000; 12,000 kbit/s							
PC Interface	PCI pro Master/Slave ^{1), 2)}	PCI pro Slave ^{1), 2)}	PCI pro (dual channel) Master/Slave ²⁾	PC/104plus Master/Slave ³⁾	PC/104plus Master/Slave, extended temperature range ³⁾	PC Card Master	USB Master	PC/104 Master/Slave	PC/104 Master, extended temperature range	PC/104 Slave	PCI Master/Slave	PCI Slave	PCI Master/Slave +Master	PCI Master+Slave
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	PCI 5V	PCI 5V	PCI 5V	PCI 5V
Dual-Port-Memory	128 KB	128 KB	128 KB per channel	128 KB	128 KB	16 KB	-	16 KB	16 KB	4 KB	16 KB	16 KB	16 KB per channel	16 KB per channel
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	Plug andPlay	Plug andPlay	Plug and Play	Plug and Play
Environment / Dimensions	PCI pro Master/Slave ^{1), 2)}	PCI pro Slave ^{1), 2)}	PCI pro (dual channel) Master/Slave ²⁾	PC/104plus Master/Slave ³⁾	PC/104plus Master/Slave, extended temperature range ³⁾	PC Card Master	USB Master	PC/104 Master/Slave	PC/104 Master, extended temperature range	PC/104 Slave	PCI Master/Slave	PCI Slave	PCI Master/Slave +Master	PCI Master+Slave
Operating temperature	0 °C .. +55 °C		-25 °C .. +75 °C		-25 °C .. +75 °C		0 °C .. +55 °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		-20 °C .. +70 °C		-25 °C .. +75 °C		-20 °C .. +70 °C			
Relative Humidity	< 90%, non-condensing						< 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	174 x 107	174 x 107	174 x 107	174 x 107
Power supply	PCI pro Master/Slave ^{1), 2)}	PCI pro Slave ^{1), 2)}	PCI pro (dual channel) Master/Slave ²⁾	PC/104plus Master/Slave ³⁾	PC/104plus Master/Slave, extended temperature range ³⁾	PC Card Master	USB Master	PC/104 Master/Slave	PC/104 Master, extended temperature range	PC/104 Slave	PCI Master/Slave	PCI Slave	PCI Master/Slave +Master	PCI Master+Slave
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	typ. 700	typ. 600	typ. 900	typ. 900
Certificates	PCI pro Master/Slave ^{1), 2)}	PCI pro Slave ^{1), 2)}	PCI pro (dual channel) Master/Slave ²⁾	PC/104plus Master/Slave ³⁾	PC/104plus Master/Slave, extended temperature range ³⁾	PC Card Master	USB Master	PC/104 Master/Slave	PC/104 Master, extended temperature range	PC/104 Slave	PCI Master/Slave	PCI Slave	PCI Master/Slave +Master	PCI Master+Slave
CE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FCC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Drivers available for	PCI pro Master/Slave ^{1), 2)}	PCI pro Slave ^{1), 2)}	PCI pro (dual channel) Master/Slave ²⁾	PC/104plus Master/Slave ³⁾	PC/104plus Master/Slave, extended temperature range ³⁾	PC Card Master	USB Master	PC/104 Master/Slave	PC/104 Master, extended temperature range	PC/104 Slave	PCI Master/Slave	PCI Slave	PCI Master/Slave +Master	PCI Master+Slave
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)	A), E), F)	A), E), F)	A), E), F)	A), E), F)
Part number	PB-PRO1-PCI /LP ¹⁾	PB-PRO1S-PCI /LP ¹⁾	PB-PRO2-PCI	PB-PRO1-PC104+	PB-PRO1-PC104+XT	PB-PCcard2	PB-USB	PB-PC104-MS	PB-PC104-XT	PB-PC104-S	PB-IF-1MS	PB-IF-1S	PB-IF-2MS	PB-IF-1M1S

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

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

³⁾ also available as PCI/104

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

A) Win NT/ME/98/95 B) DP Slave for DOS
D) Win CE E) Ardence RTX

C) VxWorks on request
F) QNX: optional, no free download