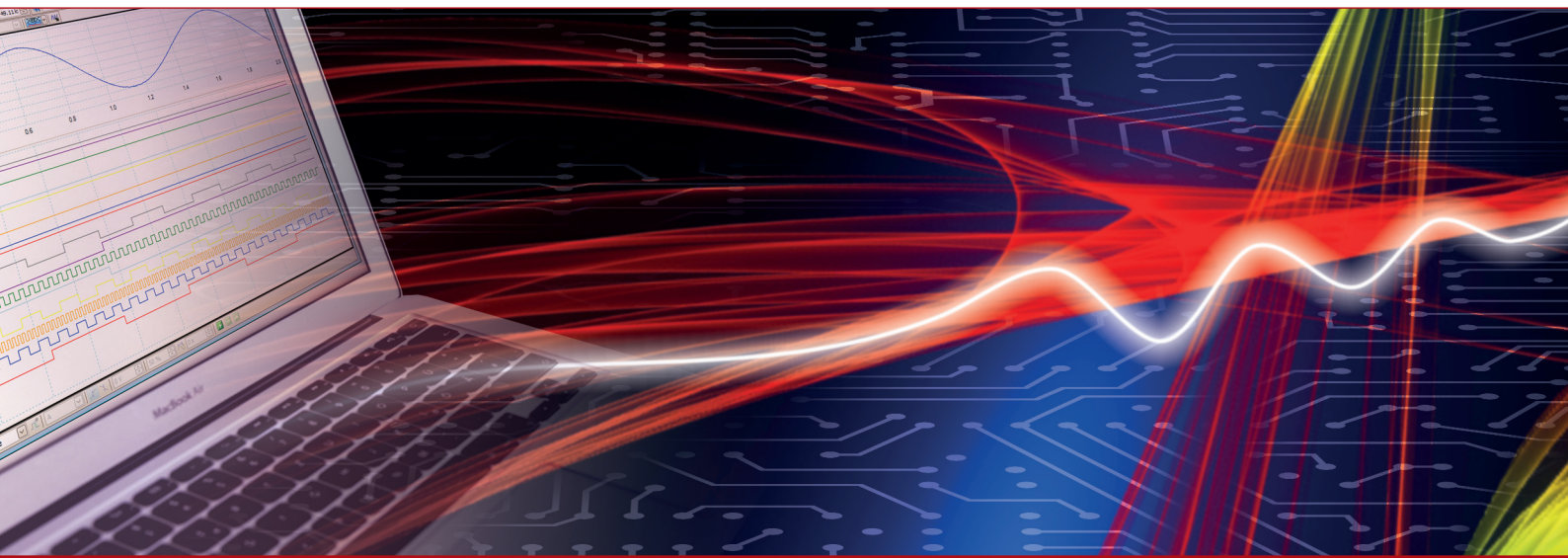


Product Datasheet - Technical Specifications



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ME-95 Digital PC Board, 16 Opto Outputs

- Opto inputs and outputs with isolation up to 500 V. Industrial 24 V level.
- Opto-Ein- und Ausgänge mit Isolation bis 500 V.
- 16 opto isolated digital outputs.
- Outputs stable during PC power on: No voltage peaks.
- All channels on 1x 25-pin D-sub female connector.
- Alle Kanäle auf 1x 25-poligem Sub-D-Stecker.
- PC DAQ board for PCI or 3 U CompactPCI/PXI.

Model	Opto inputs	Opto outputs	Connectors	Bus platform
ME-96 PCI	8	8	2x 15-pin D-sub male	StandardPCI
ME-96 cPCI				3 HE CompactPCI
ME-95 PCI	-	16	1x 25-pin D-sub male	StandardPCI
ME-95 cPCI				3 HE CompactPCI
ME-94 PCI	16	-	1x 25-pin D-sub male	StandardPCI
ME-94 cPCI				3 HE CompactPCI

Specification

PCI Interface

Bus system	Standard PCI (32 bit, 33 MHz, 5 V)
(depending on model)	CompactPCI (32 bit, 33 MHz, 5 V)
Plug&Play	automatic assignment of resources

Digital opto-isolated Inputs (ME-94 and ME-96)

Number	ME-94: 16; ME-96: 8
PIO device	8255-compatible
Input voltage	low: 0...12 V (PCI, cPCI) high: 13...24 V (PCI, cPCI)
Input current	at 24 V input voltage PCI, cPCI: 10 mA
Electrical isolation	500 V DC (referenced to PC-GND)
Transfer rate	Max. 1 kHz

Digital opto-isolated Outputs (ME-95 and ME-96)

Number	ME-95: 16; ME-96: 8
PIO Device	ME-95: discrete components ME-96: 8255-compatible
Power-up	Output transistors disabled, output pins are tristate after power-up.
Ext. power supply	24 V nominal
Output current	max. 100 mA per line
Electrical isolation	500 V DC
Transfer rate	max. 1 kHz symmetrically

General Information

Power consumption at +5 V	ME-94 PCI/cPCI: typ. 250 mA ME-95 PCI/cPCI: typ. 400 mA ME-96 PCI/cPCI: typ. 380 mA
Fuse for external power	F1: 1,6 AT/250 V (only ME-95, ME-96)
Physical size (mm)	100 x 160 (cPCI models) 174 x 98 (PCI models)
Connectors	25-pin D-Sub male connector ME-94 and ME-95); 2 x 15-pin D-Sub connector (ME-96); 2-pin low-voltage female connector DIN 45323 (not for cPCI, supply over cPCI slot connector there)
Operating temperature	0...70 °C
Storage temperature	-40...100 °C
Relative humidity	20...55 % (non-condensing)
Certification	CE

Pinout

ME-94

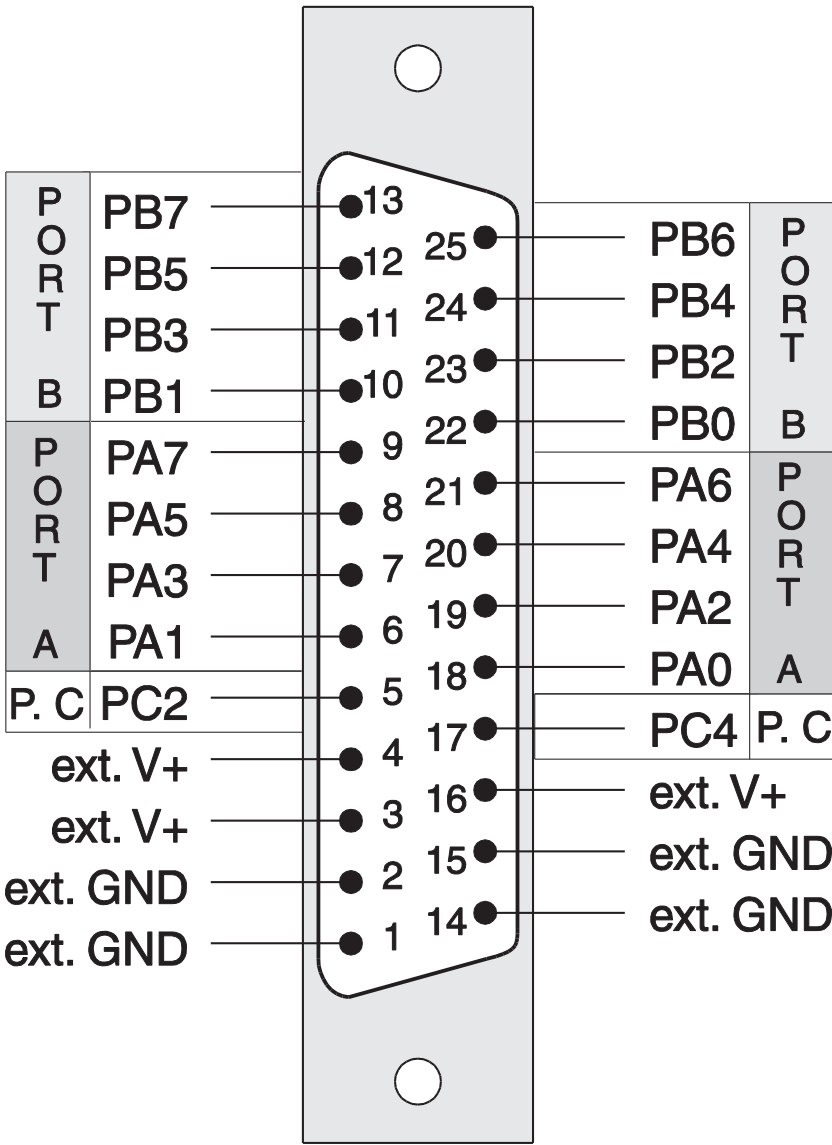


Diagram 6: Pinout of 25-pin D-Sub male connector for the ME-94 (input port)

*Pin not supported by ME-iDS

ME-95

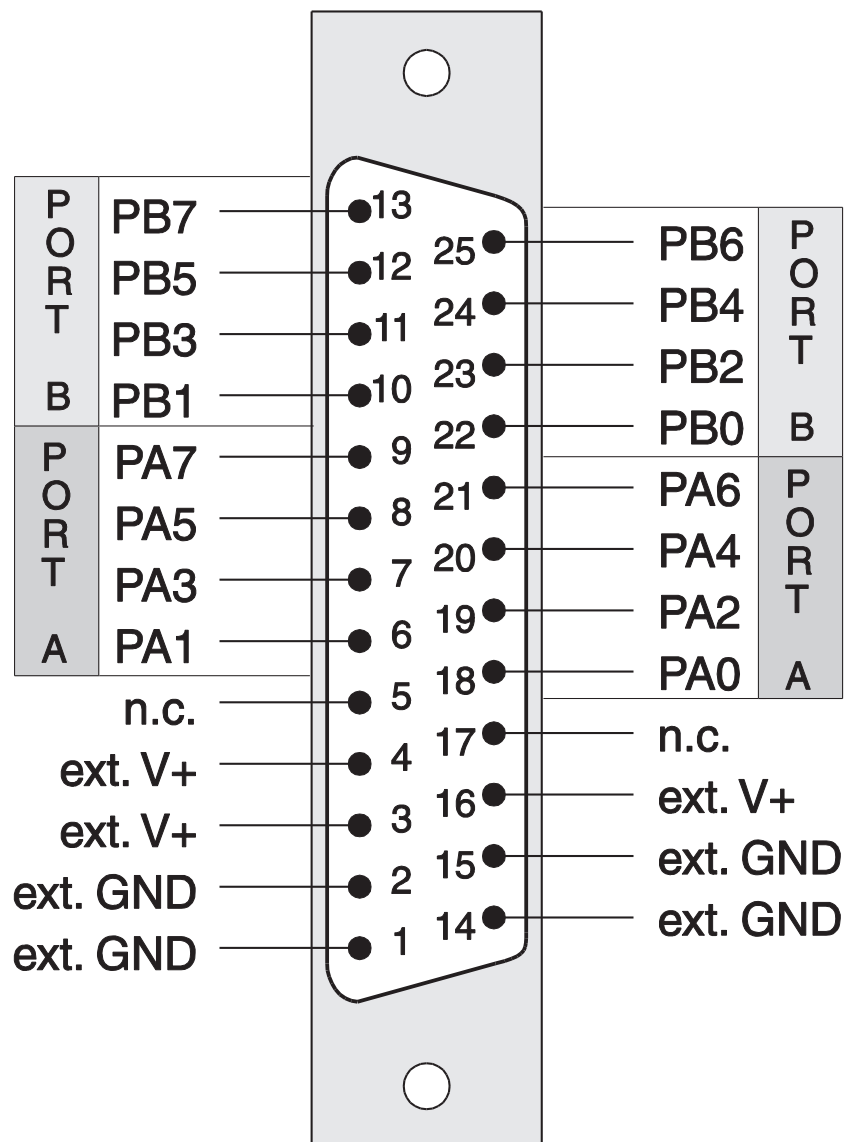


Diagram 7: Pinout of 25-pin D-Sub male connector for the ME-95 (output port)

ME-96

Output Port of the ME-96 (top)

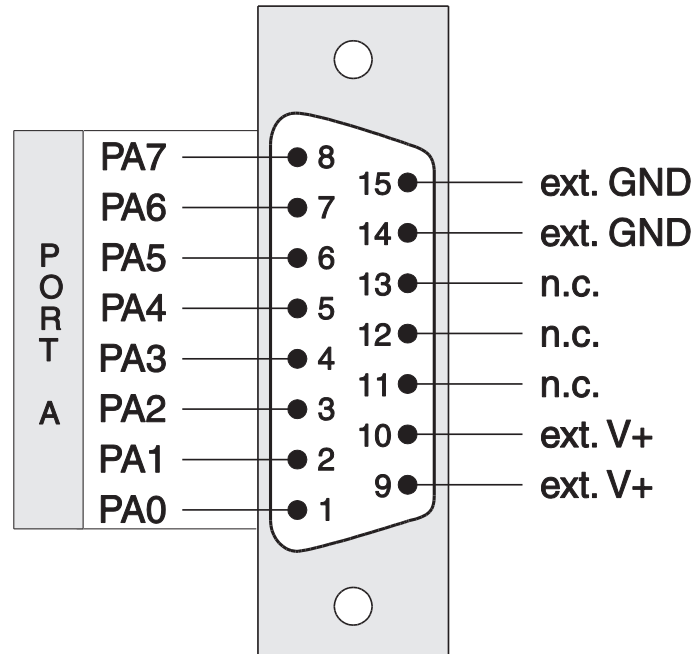


Diagram 8: Pinout of 15-pin D-Sub male connector for the output port of the ME-96

Input Port of the ME-96 (bottom)

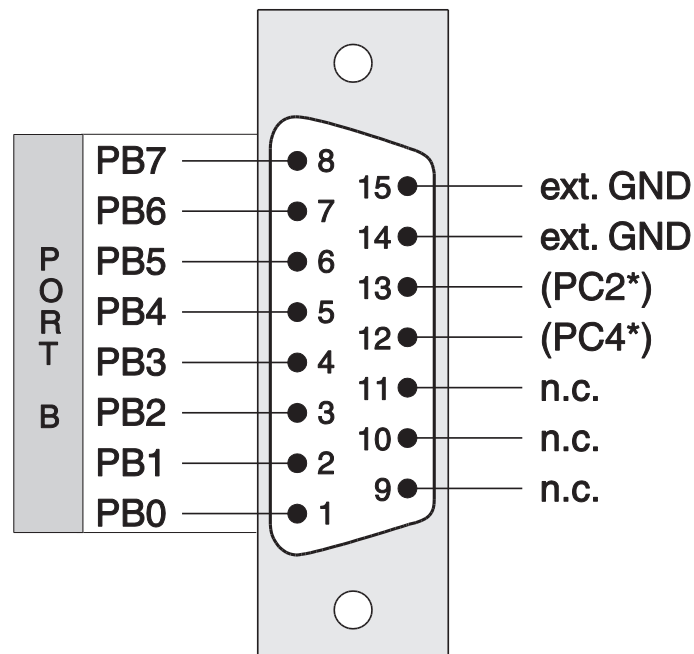


Diagram 9: Pinout for 15-pin D-Sub male connector for the input port of the ME-96

*Pin not supported by ME-iDS.

External Power Connector

...for the optocouplers (only standard PCI models)

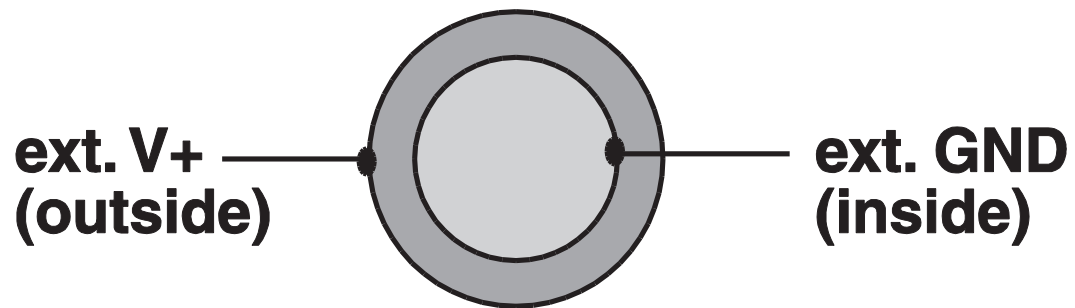


Diagram 10: Low-voltage power connector