PCLD-8712

User's manual

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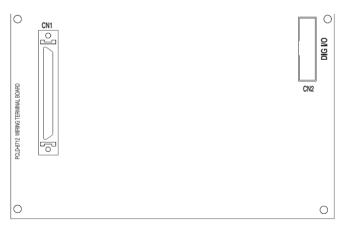
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Introduction

The PCLD-8712 Screw-terminal Board provides convenient and reliable signal wiring for the PCI-1712/1732 of which has a 68-pin SCSI-II connector. Due to its special PCB layout you can install passive components to construct your own signal-conditioning circuits. The user can easily construct a low-pass filter, attenuator or current shunt converter by adding resistors and capacitors on board's circuit pads.

Features

- Low-cost screw-terminal board for the PCI-1712/1732 with 68-pin SCSI-II connector.
- Reserved space for signal-conditioning circuits such as low-pass filter, voltage attenuator and current shunt.
- Industrial-grade screw-clamp terminal blocks for heavy-duty and reliable connections.
- DIN-rail mounting case for easy mounting.
- Dimensions:169 mm (W) x 112mm (L) x 51mm (H) (6.7" x 4.4" x 2.0")



Board Layout

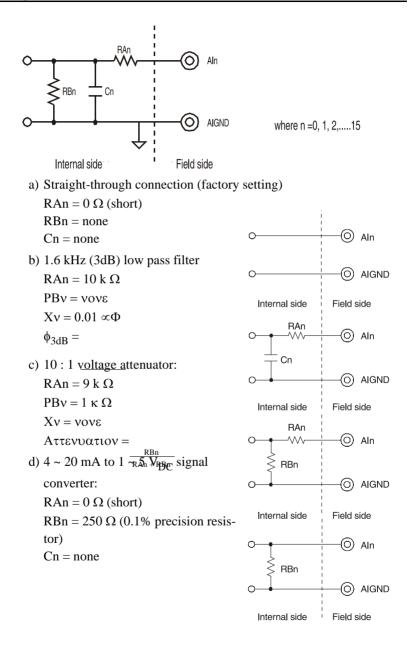
CN1: 68-pin SCSI-II connector for connection with the PCI-1712

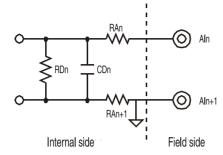
CN2: 20-pin connector for digital I/O

	CN		_
DIO 0	1	2	DIO 1
DIO 2	3	4	DIO 3
DIO 4	5	6	DIO 5
DIO 6	7	8	DIO 7
DIO 8	9	10	DIO 9
DIO 10	11	12	DIO 11
DIO 12	13	14	DIO 13
DIO 14	15	16	DIO 15
DGND	17	18	DGND
+5 V	19	20	+12 V
			1

Pin Assignment

Single-ended Connections





where n =0, 2, 4,....14

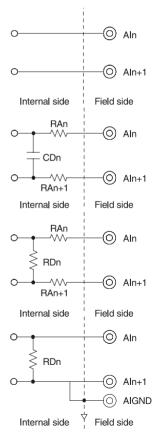
Differential Connections

a) Straight-through connection (factory setting): RAn = 0 Ω (short)

 $RAn+1 = 0 \ \Omega \ (short)$

- RDn = none
- CDn = none
- b) 1.6 kHz (3dB) low pass filter RAn = $5 \text{ k}\Omega_{-1}$ RAn+1 = $5 \text{ k}\Omega$ RDn = none CDn = 0.01 µF f3dB =
- c) 10 : 1 voltage attenuator:

 $RAn = 4.5 \text{ k } \Omega \underline{}_{RDn}$ $RAn+1 = 4.5 \text{ k} \Omega^{RAn+RAn+1+RDn}$ $RDn = 1 \text{ k} \Omega$ Cn = none Attenuation = $d) 4 \sim 20 \text{ mA to } 1 \sim 5 \text{ V}_{DC} \text{ signal}$



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