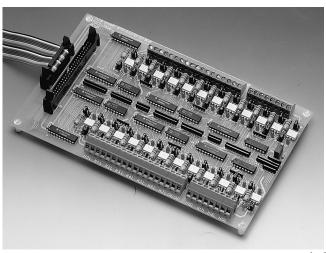
PCLD-782/782B 16/24-channel Opto-isolated D/I Boards



Features

- Compatible with all PC-LabCard[™] products with D/I channels on either 20-pin flat cable or 50-pin Opto-22 compatible connectors.
- 16 or 24 optically-isolated digital input channels
- Built-in screw terminals for easy input wiring
- LEDs indicate input logic status
- Inputs buffered with voltage comparators

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Introduction

The PCLD-782 and PCLD-782B digital input daughterboards feature high-voltage (> 1500 V_{DC}) optical isolation on all inputs. The PCLD-782 provides 16 input channels accessible through one 20-pin flat cable connector, which is standard on most PC-LabCard™ products. The PCLD-782B provides either 16 or 24 channels, depending on what connector you use. The PCLD-782B's 20-pin connector lets you access 16 channels, similar to the PCLD-782. The PCLD-782B also provides a 50-pin Opto-22 connector

Both cards have onboard screw terminals for easy input wiring. Optically isolated signal conditioning provides isolation between separate channels, as well as between each input channel and the PC. This isolation prevents floating potential and ground loop problems while protecting the input lines from potentially damaging fault conditions.

A red LED on each input channel indicates its status. If the input signal is high, the LED is lit. You can configure each channel to work in either isolated or non-isolated mode. A variable resistor adjusts the threshold level for all 24 isolated input channels simultaneously.

Specifications

•	Input Channels	24 (PCLD-782B), 16 (PCLD-782)
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 Input Range 0 ~ 24 Vnc - Input Resistance 560Ω Isolation Voltages $1,500 V_{DC}$ min. 1.5 V_{DC} (VR adjustable) Threshold Voltage

 Screw Terminals Screw-clamp terminal blocks, accept #22 to #12 AWG

- Connectors for PCLD-782: one 20-pin flat cable connector (CN1) **Digital Bus** PCLD-782B: one 20-pin flat cable connector (CN1)

and one 50-pin Opto-22 connector (CN2) PCLD-782: 3U- 205 mm x 114 mm (8.1" x 4.5")

Dimensions PCLD-782B: 4U-220 mm x 132 mm (8.7" x 5.2")

Ordering Information

■ PCLD-782B 16/24-channel Opto-isolated D/I Board, user's manual,

20-pin flat cable assembly (P/N: PCL-10120-1) and one 1.2-m 50-pin flat cable (P/N: PCL-10150-1.2) 16-channel Opto-isolated D/I Board, user's manual and

one 1-m 20-pin flat cable assembly (P/N: PCL-10120-1)

PCL-10120-1 20-pin flat cable assembly, 1 m PCL-10120-2 20-pin flat cable assembly, 2 m

PCL-10150-1.2 50-pin flat cable, 1.2 m (for connecting the PCL-722 or

724 to the PCLD-885, 782B or 785B)

Pin Assignments

CN1						
DI0	1	2	DI1			
DI2	3	4	DI3			
DI4	5	6	DI5			
DI6	7	8	DI7			
DI8	9	10	DI9			
DI10	11	12	DI11			
DI12	13	14	DI13			
DI14	15	16	DI15			
GND	17	18	GND			
+5 V	19	20	+12 '			

CN2						
D I 23	1	2	GNI			
D I 22	3	4	GNI			
D I 21	5	6	GNI			
D I 20	7	8	GNI			
OI19	9	10	GNI			
D I 18	11	12	GNI			
DI17	13	14	GNI			
D I 16	15	16	GNI			
DI15	17	18	GNI			
DI14	19	20	GNI			
DI13	21	22	GNI			
DI12	23	24	GNI			
D I 11	25	26	GNI			
DI10	27	28	GNI			
D I 9	29	30	GNI			
D I 8	31	32	GNI			
DI7	33	34	GNI			
D I 6	35	36	GNI			
DI5	37	38	GNI			
DI4	39	40	GNI			
DI3	41	42	GNI			
D I 2	43	44	GNI			
DI1	45	46	GNI			
DI0	47	48	GNI			
+5 V	49	50	GNI			

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