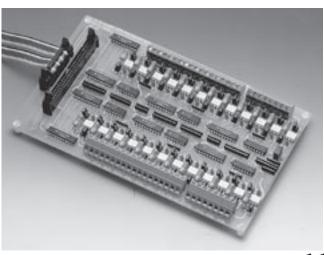
PCLD-782 PCLD-782B

16-ch Opto-Isolated DI Board

16/24-ch Opto-Isolated DI Board



Features

- Compatible with all PC-LabCard™ products with DI 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

 ϵ

Introduction

PCLD-782 and PCLD-782B digital input daughterboards feature high-voltage ($> 1,500 \ V_{DC}$) optical isolation on all inputs. PCLD-782 provides 16 input channels accessible through one 20-pin flat cable connector, which is standard on most PC-LabCardTM 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, but also provides a 50-pin Opto-22 connector with access to 24 channels.

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

Digital Input

■ Input Channels 24 (PCLD-782B), 16 (PCLD-782)

General

Certifications

Connectors
Digital Input: Screw terminals (#12 ~ 22 AWG)

Controller: PCLD-782: 1 x 20-pin flat cable connector (CN1)

PCLD-782B: 1 x 20-pin flat cable connector (CN1) and

1 x 50-pin Opto-22 connector (CN2)

■ **Dimensions (L x W)** PCLD-782: 3U-205 x 114 mm (8.1" x 4.5")

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

• LED Indicators Indicates input logic status

Mounting 4 x screw holes for flat surface mounting

Ordering Information

• PCLD-782B 16/24-ch Opto-isolated DI Board, user's manual, one

1m 20-pin flat cable assembly (P/N: PCL-10120-1) and one 1.2m 50-pin flat cable (P/N: PCL-10150-1.2)

PCLD-782
16-ch Opto-isolated DI Board, user's manual and 1 x 1
m 20-pin flat cable assembly (P/N: PCL-10120-1)

PCL-10120-1
PCL-10120-2
20-pin flat cable assembly, 1 m
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		
D I 8	9	10	DI9		
D I 10	11	12	DI11		
D I 12	13	14	DI13		
D I 14	15	16	DI15		
GND	17	18	GND		
+5 V	19	20	+12 V		

CN2					
D I 23	1	2	GND		
DI22	3	4	GND		
D I 21	5	6	GND		
D I 20	7	8	GND		
D l 19	9	10	GND		
DI18	11	12	GND		
DI17	13	14	GND		
D I 16	15	16	GND		
DI15	17	18	GND		
D l 14	19	20	GND		
DI13	21	22	GND		
DI12	23	24	GND		
DI 11	25	26	GND		
D i 10	27	28	GND		
DI9	29	30	GND		
DI8	31	32	GND		
DI7	33	34	GND		
D I 6	35	36	GND		
DI5	37	38	GND		
DI4	39	40	GND		
DI3	41	42	GND		
DI2	43	44	GND		
DI1	45	46	GND		
DI0	47	48	GND		
+5 V	49	50	GND		