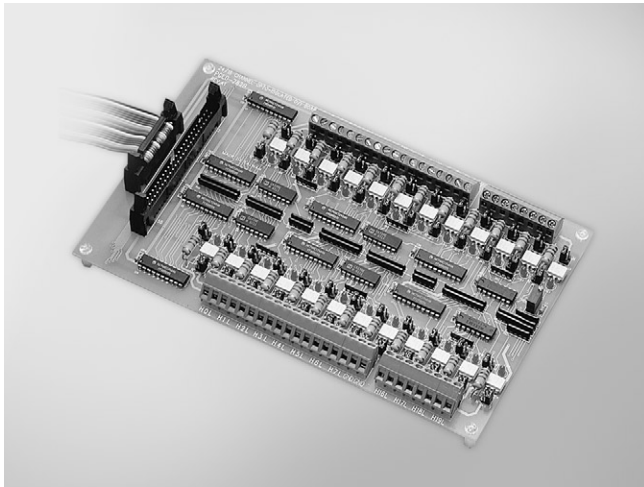


PCLD-782 PCLD-782B

16-ch Opto-Isolated Digital Input Board

24-ch Opto-Isolated Digital Input Board



CE

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

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-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, 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.

Specifications

Isolated Digital Input

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

General

- Certifications** CE
- Connectors**
Digital Input: Screw terminals (#12 ~ 22 AWG)
Controller: PCLD-782: 1 x 20-pin box header (CN1)
PCLD-782B: 1 x 20-pin box header (CN1) and 1 x 50-pin box header (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-782** 16-ch Isolated DI Board w/ 1m 20-pin Flat Cable
- PCLD-782B** 24-ch IDI Board w/ 20-pin & 50-pin Flat Cables
- PCL-10120-1** 20-pin Flat Cable, 1 m
- PCL-10120-2** 20-pin Flat Cable, 2 m
- PCL-10150-1.2** 50-pin Flat Cable, 1.2 m

Pin Assignments

CN1			CN2			
DI0	1	2	DI23	1	2	GND
DI2	3	4	DI22	3	4	GND
DI4	5	6	DI21	5	6	GND
DI6	7	8	DI20	7	8	GND
DI8	9	10	DI19	9	10	GND
DI10	11	12	DI18	11	12	GND
DI12	13	14	DI17	13	14	GND
DI14	15	16	DI16	15	16	GND
GND	17	18	DI15	17	18	GND
+5 V	19	20	DI14	19	20	GND
			DI13	21	22	GND
			DI12	23	24	GND
			DI11	25	26	GND
			DI10	27	28	GND
			DI9	29	30	GND
			DI8	31	32	GND
			DI7	33	34	GND
			DI6	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