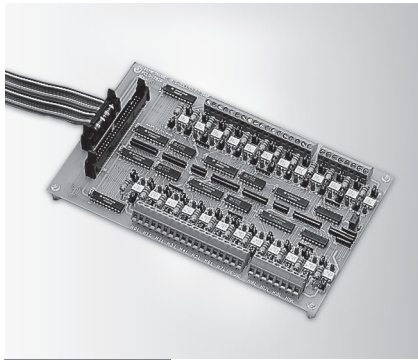


# PCLD-782/B PCLD-785/B PCLD-885

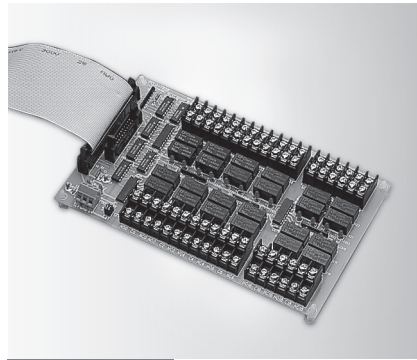
16/24-ch Opto-Isolated Digital Input Board

16/24-ch Relay Board

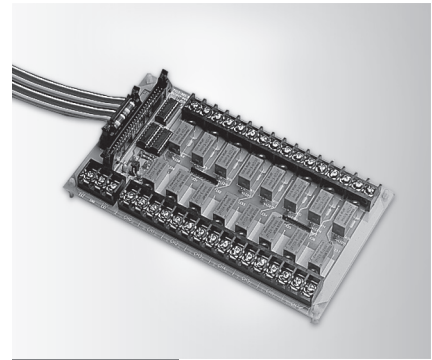
16-ch Power Relay Board



PCLD-782/B



PCLD-785/B



PCLD-885



## Features

- Compatible with all PC-LabCard products with DI channels on either 20-pin at 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

## Specifications

### Isolated Digital Input

- Channels PCLD-782: 16  
PCLD-782B: 24
- Input Range 0 ~ 24 V<sub>DC</sub>
- Input Resistance 560 Ω
- Isolation Voltages 1,500 V<sub>DC</sub> min.
- Threshold Voltage 1.5 V<sub>DC</sub> (VR adjustable)

### General

- DI Connectors Screw terminals (#12 ~ 22 AWG)
- Controller Connector 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 at 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

### Accessories

- PCL-10120-1E 20-pin Flat Cable, 1 m
- PCL-10120-2E 20-pin Flat Cable, 2 m
- PCL-10150-1.2E 50-pin Flat Cable, 1.2 m

## Features

- Compatible with PC-LabCard products with 20-pin digital output connector and 50-pin Opto-22 digital output connector (PCLD-785B only)
- Automatic selection of control logic (PCLD-785B only): Negative logic for the Opto-22 connector  
Positive logic for the 20-pin at cable connector
- Screw terminals for easy output wiring
- LED status indicators

## Specifications

### Relay

- Channels PCLD-785: 16 (CN1, 20-pin conn.)  
PCLD-785B: 16 (CN1, 20-pin conn.)  
24 (CN2, 50-pin conn.)
- Contact Ratings 120 V<sub>AC</sub> @ 0.5 A, 30 V<sub>DC</sub> @ 1 A
- Contact Resistance < 100 mΩ
- Operation Time 5 ms max.
- Insulation Resist. 100 MΩ
- Life Expectancy 5 x 10<sup>5</sup> @ 110 V<sub>AC</sub>/0.3 A  
5 x 10<sup>5</sup> @ 24 V<sub>DC</sub>/1.25 A
- Relay Type SPDT (Single-Pole Double-Throw) Form C
- Release Time 5 ms max.

### General

- Dimensions (L x W) PCLD-785: 114x220 mm  
PCLD-785B: 132x220 mm
- Power Consumption 5 V @ < 100 mA; 12 V @ 33 mA for each relay
- Power Input 20-pin connector: 5 V<sub>DC</sub>: Jumper select PC bus or external supply  
12 V<sub>DC</sub>: Jumper select PC bus or external supply  
50-pin connector: external 12 V supply

## Ordering Information

- PCLD-785 16-ch Relay Board w/ One 1m 20-pin Flat Cable
- PCLD-785B 24-ch Relay Board w/ 20-pin & 50-pin Flat Cables

### Accessories

- PCL-10120-1E 20-pin Flat Cable, 1 m
- PCL-10120-2E 20-pin Flat Cable, 2 m
- PCL-10150-1.2E 50-pin Flat Cable, 1.2 m

## Features

- Accepts 20-pin or 50-pin (Opto-22 compatible) connectors
- 16 single-pole single-throw (SPST) relays
- High-power relay handles up to 6 A @ 250 V<sub>AC</sub>
- Onboard varistors protect all relay contact points
- Industrial screw terminals for ease of wiring
- LED status indicators
- 5 V/ 12 V power/status LED indicator

## Specifications

### Relay

- Channels 16
- Contact Rating 250 V<sub>AC</sub> @ 6 A  
30 V<sub>DC</sub> @ 5 A
- Contact Resistance 30 mΩ max.
- Insulation Resist. 1,000 MΩ @ 500 V<sub>DC</sub>
- Life Expectancy >100,000 cycles at rated load
- Relay On Time 6 ms max.
- Relay Off Time 3 ms max.
- Relay Type SPST (Form A), normally open

### Varistor

- Clamping Voltage 760 V (10 A)
- Max. Peak Current 1,200 A for 8 msec.
- Max. Applied Voltage 300 V<sub>RMS</sub> AC continuous
- Varistor Voltage 470 V (current = 1 mA)

### General

- Power Consumption 12 V @ 22 mA for each relay, 352 mA if all relays energized  
5 V @ 200 mA max.
- Connectors Input: 20-pin at cable or 50-pin Opto-22 compatible  
Output: Barrier strip screw terminal
- Dimensions (L x W) 205 x 114 mm (8" x 4.5")
- Operating Temp. 0 ~ 60°C (32 ~ 140°F)

## Ordering Information

- PCLD-885 16-ch Power Relay Board w/ 20p & 50p Flat Cables