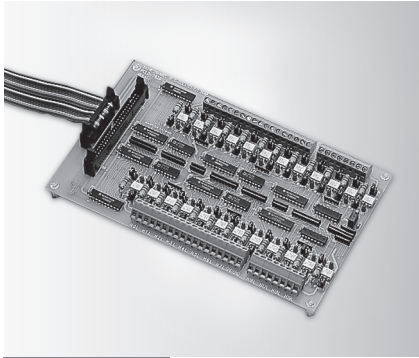# PCLD-782/B
PCLD-785/B
PCLD-885

16/24-ch Opto-Isolated Digital Input Board
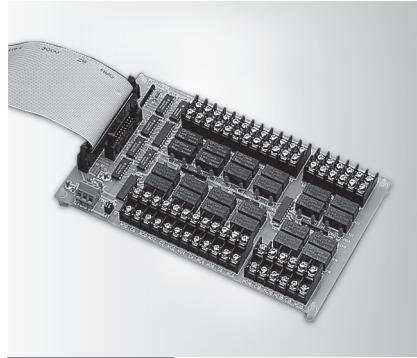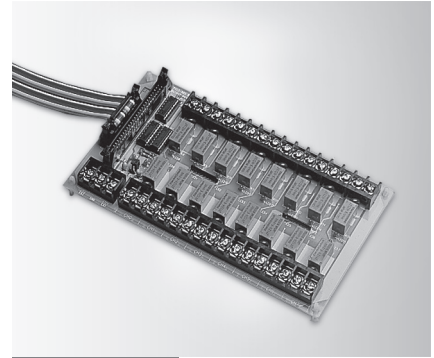
16/24-ch Relay Board

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 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

Specifications

Isolated Digital 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

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 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

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 (PLCD-785B only): Negative logic for the Opto-22 connector Positive logic for the 20-pin flat 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_{AC} @ 0.5 A, 30 V_{DC} @ 1 A
Contact Resistance	< 100 mΩ
Operation Time	5 ms max.
Insulation Resist.	100 MΩ
Life Expectancy	5 x 10⁵ @ 110 V_{AC} /0.3 A
	5 x 10⁵ @ 24 V_{DC} /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_{DC}: Jumper select PC bus or external supply
	12 V_{DC}: 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_{AC}
- 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_{AC} @ 6 A
	30 V_{DC} @ 5 A
Contact Resistance	30 mΩ max.
Insulation Resist.	1,000 MΩ @ 500 V_{DC}
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

Varister

Clamping Voltage	760 V (10 A)
Max. Peak Current	1,200 A for 8 msec.
Max. Applied Voltage	300 V_{RMS} 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 flat 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

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