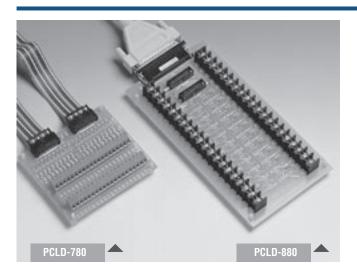
# **PCLD-780** PCLD-880

## **Screw Terminal Board Industrial Wiring Terminal Board w/Adapter**



#### **Features**

- Pin to pin design
- Low-cost universal screw-terminal boards for industrial applications
- 40 terminal points for two 20-pin flat cable connector ports
- Reserved space for signal-conditioning circuits such as low-pass filter, voltage attenuator and current-to-voltage conversion
- Table-top mounting using nylon standoffs. Screws and washers provided for panel or wall mounting
- PCLD-780 Only
- Screw-clamp terminal-blocks allow easy and reliable connections
- Dimensions: 102 x 114 mm (4.0" x 4.5")
- PCLD-880 Only
- Supports PC-LabCard™ products with DB-37 connectors
- Industrial-grade terminal blocks (barrier-strip) permit heavy-duty and reliable
- Dimensions: 221 x 115 mm (8.7" x 4.5")

#### Introduction

PCLD-780 and PCLD-880 universal screw-terminal boards provide convenient and reliable signal wiring for PC-LabCard™ products with 20-pin flat-cable connectors. PCLD-880 is also equipped with a DB37 connector to support PC-LabCard™ products with DB37 connectors.

PCLD-780 and PCLD-880 let you install passive components on the special PCB layout to construct your own signal-conditioning circuits.

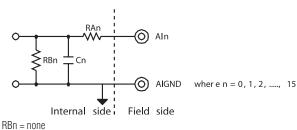
You can easily construct a low-pass filter, attenuator or current-to-voltage converter by adding resistors and capacitors onto the board's circuit pads.

## **Applications**

- Field wiring for analog and digital I/O channels of PC-LabCard™ products which employ the standard 20-pin flat cable connectors or DB37 connectors (only PCLD-880)
- Signal conditioning circuits can be implemented as illustrated in the following

#### a) Straight-through connection (factory setting)

 $RAn = 0\Omega$  jumper



b) 1.6 kHz (3dB) low pass filter

Cn = none

 $RAn = 10 K\Omega$ RBn = none $Cn = 0.01 \mu F$ 2πRAnCn

c) 10: 1 voltage attenuator:

 $RAn = 9 K\Omega$  $RBn = 1 K\Omega$ Cn = noneRBn Attenuation = RAn + RBn(Assume source impedance  $\ll$  10 K $\Omega$ )

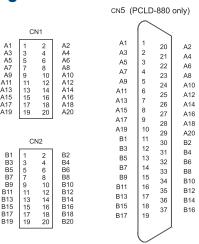
#### d) 4 ~ 20 mA to 1 ~ 5 VDC signal converter:

 $RAn = 0 \Omega (short)$ 

RBn = 250  $\Omega$  (0.1% precision resistor)

Cn = none

## **Pin Assignments**



### **Ordering Information**

 PCLD-780 Screw terminal Board, two 1m 20-pin flat cables (PCL-10120-1)

PCLD-880 Industrial Wiring Terminal Board, two 1m 20-pin flat cables (PCL-10120-1), and one PCL-10501 adapter (20-pin analog flat connector to DB37 connector)

DB37 cable assembly, 1 m PCL-10137-1 PCL-10137-2 DB37 cable assembly, 2 m PCL-10137-3 DB37 cable assembly. 3 m