**PCLD-780 PCLD-880**



**Screw Terminal Board with Flat Cables**

**Wiring Terminal Board with Flat Cables and 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 forpanel 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 DB37 connectors |
|  |  |  | **** Industrial-grade terminal blocks (barrier-strip) permit heavy-duty and reliable |
|  |  |  | connections |
| **PCLD-780** |  | **PCLD-880** | **** 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 whichemploy the standard 20-pin flat cable connectors or DB37 connectors

(only PCLD-880)

**** Signal conditioning circuits can be implemented as illustrated in the followingexamples:

1. **Straight-through connection (factory setting)** RAn = 0Ω jumper



RBn = none

Cn = none

1. **1.6 kHz (3dB) low pass filter**

*RAn = 10 K*Ω *RBn = none*

*Cn = 0.01μF*

f3dB = ****

1. **10 : 1 voltage attenuator**

RAn = 9 KΩ RBn = 1 KΩ

Cn = none

Attenuation = **** (Assume source impedance << 10 KΩ)

1. **4 ~ 20 mA to 1 ~ 5 VDC signal converter**

RAn = 0 Ω (short)

RBn = 250 Ω (0.1% precision resistor) Cn = none

**Pin Assignments**



**Ordering Information**

** PCLD-780** Screw Terminal Board w/ Two 20-pin Flat Cables

** PCLD-880** Wiring Board w/ Two 20-pin Flat Cables & Adapter

** PCL-10137-1** DB37 Cable, 1 m

** PCL-10137-2** DB37 Cable, 2 m

** PCL-10137-3** DB37 Cable, 3 m

** PCL-10120-1** 20-pin Flat Cable, 1 m

** PCL-10120-2** 20-pin Flat Cable, 2 m



**Online Download** www.advantech.com/products