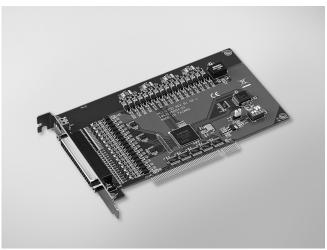
PCI-1750/1750S0

32-ch Isolated Digital I/O and 1-ch **Counter PCI Card**



Features

- 16 isolated DI and 16 isolated DO channels
- High voltage isolation on all isolated channels (2.500 V_{DC})
- High source current on isolated output channels (200 mA/channel)
- Supports dry contact or $5 \sim 50 \text{ V}_{DC}$ isolated inputs
- Interrupt handling capability
- Timer/counter interrupt capability

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Introduction

PCI-1750/1750SO offers 16 isolated digital input channels, 16 isolated digital output channels, and one isolated counter/timer for the PCI bus. With isolation protection of 2,500 V_{DC}, and dry contact support, PCI-1750/1750SO is ideal for industrial applications where high-voltage protection is required. Each I/O channel of the PCI-1750/1750SO corresponds to a bit in a PC I/O port. This makes PCI-1750/1750SO very easy to program. This card also offers a counter or timer interrupt and two digital input interrupt lines to a PC, so you can then easily configure the card with software.

Specifications

Isolated Digital Input

Channels

Input Voltage Logic 0: 2 V max.

Logic 1: 5 V min. (50 V_{DC} max.) or dry contact

 Interrupt Capable Ch. Isolation Protection 2.500 Vpc ■ Opto-Isolator Response 100 µs

Isolated Digital Output

Channels

Sink Current 200mA max. / channel (PCI-1750 NPN type) 200mA max. / channel (PCI-1750SO PNP type) **Source Current**

Isolation Protection $2,500 V_{DC}$ **Output Voltage** 5 ~ 40 V_{DC}

Source Current 200 mA max. per channel

Opto-Isolator Response 100 µs

Sufficient Withstanding 1.6A max. per PCOM

current

- Over current ground CN5 (wiring necessary if totally current over 1.6A)

Counter/Timer

Channels

 Resolution 1 x 16-bit isolated counter Input Voltage Logic 0: 2V max. Logic 1: 5V min. (50V_{DC} max.)

Max. Input Frequency 1 MHz Isolation Protection 2,500 V_{DC}

General

Bus Type PCI V2.2

 I/O Connectors 1 x DB37 female connector

1 x 2-pin terminal block for extended ground

Dimensions (L x H) 175 x 100 mm (6.9" x 3.9") Typical: 5 V @ 850 mA Power Consumption Max.: 5 V @ 1.0 A

• Operating Temperature $0 \sim 70^{\circ}\text{C}$ (32 ~ 158°F) Storage Temperature $-20 \sim 80^{\circ}\text{C} (-4 \sim 176^{\circ}\text{F})$ Storage Humidity 5 ~ 95% RH, non-condensing

Ordering Information

PCI-1750 32-ch Isolated Digital I/O (NPN DO) and Counter PCI

32-ch Isolated Digital I/O (PNP DO) and Counter PCI PCI-1750SO

Card

Accessories

PCL-10137-1E DB37 Cable, 1 m PCL-10137-2E DB37 Cable, 2 m PCL-10137-3E DB37 Cable, 3 m

ADAM-3937 DB37 DIN-rail Wiring Board

Pin Assignments

