PCI-1750

32-ch Isolated Digital I/O and 3-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 sink current on isolated output channels (200 mA/channel)
- Supports dry contact or 5 ~ 50 V_{DC} isolated inputs
- Interrupt handling capability
- Timer/counter interrupt capability





Introduction

PCI-1750 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 is ideal for industrial applications where high-voltage protection is required. Each I/O channel of the PCI-1750 corresponds to a bit in a PC I/O port. This makes PCI-1750 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 do configurations by 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 V_{DC}

■ Opto-Isolator Response 100 µs

Isolated Digital Output

Channels Sink (NPN) Output Type $2,\!500\;V_{\text{DC}}$ Isolation Protection Output Voltage $5 \sim 40 \ V_{DC}$

 Sink Current 200 mA max. per channel

■ Opto-Isolator Response 100 µs

Counter/Timer

Channels

1 x 32-bit timer Resolution 1 x 16-bit isolated counter

Compatibility 5 V/TTL 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 $0 \sim 70^{\circ} \text{ C} (32 \sim 158^{\circ} \text{ F})$

 Storage Temperature -20 ~ 80° C (-4 ~ 176° F)

 Storage Humidity 5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)

Ordering Information

32-ch Isolated Digital I/O and Counter PCI Card PCI-1750

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

 ADAM-3937 DB37 DIN-rail Wiring Board

Pin Assignments

