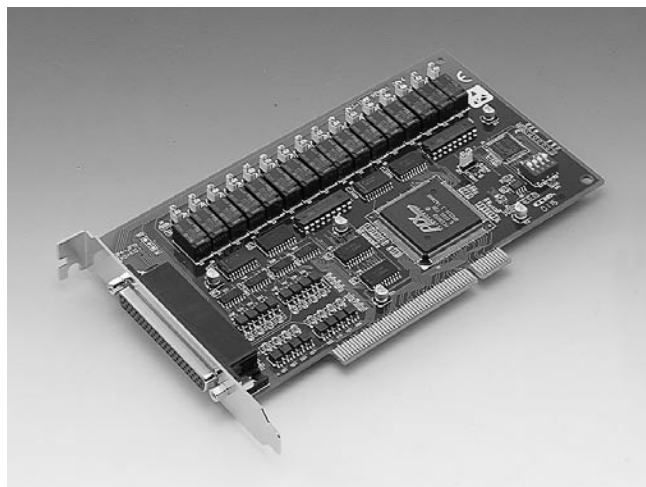


PCI-1762

16-ch Isolated Digital Input and 16-ch Relay Output Card



CE

Features

- 16 relay output channels and 16 isolated digital input channels
- LED indicators to show activated relays
- Jumper selectable Form A/Form B-type relay output channel
- Output status read-back
- Retain relay output values when hot system reset
- High-voltage isolation on input channels (2,500 V_{DC})
- High ESD protection (2,000 V_{DC})
- High over-voltage protection (70 V_{DC})
- Wide input range (10 ~ 50 V_{DC})
- Interrupt handling capability
- High-density DB-62 connector
- BoardID™ switch

Introduction

The PCI-1762 relay actuator and isolated D/I card is a PC add-on card for the PCI bus. It provides 16 opto-isolated digital inputs with isolation protection of 2,500 V_{DC} for collecting digital inputs in noisy environments, 16 relay actuators for serving as on/off control devices or small power switches. For easy monitoring, each relay is equipped with one red LED to show its on/off status. The PCI-1762's sixteen optically-isolated digital input channels are ideal for digital input in noisy environments or with floating potentials.

Specifications

Isolated Digital Input

- **Channels** 16
- **Input Voltage** Logic 0: 3 V max.
Logic 1: 10 V min. (50 V max.)
- **Interrupt Capable Ch.** 2
- **Isolation Protection** 2,500 V_{DC}
- **Overvoltage Protection** 70 V_{DC}
- **Opto-Isolator Response** 25 μs
- **Input Resistance** 4.7 KΩ

Relay Output

- **Channels** 16
- **Relay Type** SPDT (Form A or Form B, jumper selectable)
- **Contact Rating** 0.5 A @ 125 V_{AC} or 1 A @ 30 V_{DC}
- **Relay on Time** 6 ms max.
- **Relay off Time** 4 ms max.
- **Life Span** 2 x 10⁵ ops. min. (0.5 A @ 125 V_{AC}) , 5 x 10⁶ ops. min. (1 A @ 30 V_{DC})
- **Resistance** Contact: 50 MΩ
Insulation: 1,000 MΩ min. (at 500 V_{DC})

General

- **Bus Type** PCI V2.2
- **I/O Connectors** 1 x DB62 D-type female
- **Dimensions (L x H)** 175 x 100 mm (6.9" x 3.9")
- **Power Consumption** Typical: +5V @ 250 mA
Max: +5V @ 620 mA
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F) (IEC 68-2-1,2)
- **Storing Temperature** -20 ~ 70° C (-4 ~ 158° F)
- **Storing Humidity** 5 ~ 95 % non-condensing (IEC 68-2-3)

Ordering Information

- **PCI-1762** 16-ch Isolated Digital Input and 16-ch Relay Output Card
- **PCL-10162-1** PCL-10162-1 DB-62 cable assembly, 1 m
- **PCL-10162-3** PCL-10162-3 DB-62 cable assembly, 3 m
- **PCL-10162-5** PCL-10162-5 DB-62 cable assembly, 5 m
- **ADAM-3962** DB62 Wiring Terminal for Din-rail Mounting

Applications

- Industrial on/off control
- Switch status sensing
- Digital I/O control
- Industrial and lab automation
- SMT/PCB machinery
- Semi-conductor machinery
- PC-based industrial machinery
- Testing & measurement
- Laboratory & education
- External relay driving