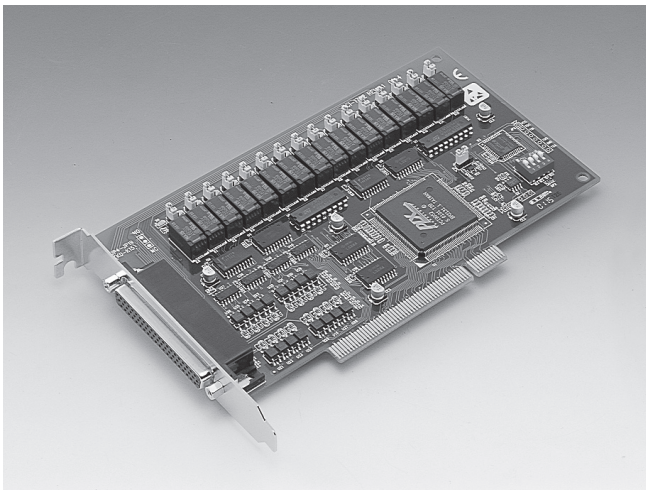
PCI-1762

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



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

CE

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

- **Input Channels** 16
- **Optical Isolation** 2,500 V_{DC}
- **Opto-Isolator Response Time** 25 µs
- **Over-Voltage Protection** 70 V_{DC}
- **Input Voltage**
  - VIH (max.) 50 V_{DC}
  - VIH (min.) 10 V_{DC}
  - VIL (max.) 3 V_{DC}
- **VIL (max.)**
  - 10 V_{DC} 1.6 mA (typical)
  - 12 V_{DC} 1.9 mA (typical)
  - 24 V_{DC} 4.1 mA (typical)
  - 48 V_{DC} 8.5 mA (typical)
  - 50 V_{DC} 8.9 mA (typical)

Relay Output

- **Output Channels** 16
- **Relay Type** SPDT (Form A or Form B, Jumper selectable)
- **Rating (resistive)** 0.5 A @ 125 V_{AC} or 1 A @ 30 V_{DC}
- **Max. Switching Power** 62.5 AV, 30 W
- **Max. Switching Voltage** 250 V_{AC}, 220 V_{DC}
- **Max. Switching Current** 2 A
- **Minimum Switching Load** 10 µA @ 10 m V_{DC}
- **Breakdown Voltage** 1,500 V_{AC} for 1 min. (between coil and contacts)
- **Operate Time** 6 ms max.
- **Release Time** 4 ms max.
- **Insulation Resistance** 1,000 MΩ min. (at 500 V_{DC})
- **Life Expectancy** 2 x 10^5 ops. min. (0.5 A @ 125 V_{AC}) , 5 x 10^5 ops. min. (1 A @ 30 V_{DC})

General

- **I/O Connector Type** DB62 D-type female connector
- **Dimensions** 175 x 100 mm (69" x 3.9")
- **Power Consumption** +5V @ 250 mA (typical)
  +5V @ 620 mA (max.)
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F) (IEC 68-2-1,2)
- **Storage Temperature** -20 ~ 70° C (-4 ~ 158° F)
- **Relative Humidity** 5 - 95 % non-condensing (IEC 68-2-3)
- **Certification** CE Class A

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, 1m
- **PCL-10162-3** PCL-10162-3 DB-62 cable assembly, 3m
- **PCL-10162-5** PCL-10162-5 DB-62 cable assembly, 5m
- **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