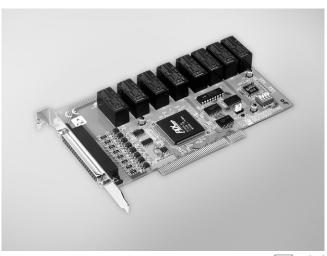
# **PCI-1761**

## 8-ch Relay and 8-ch Isolated Digital Input PCI Card



## **Features**

- ISA-Compatible with PCL-725
- 8 relay output channels and 8 isolated digital input channels
- LED indicators to show activated relays
- 4 Form C and 4 Form A type relay output channels
- Male DB37 matching connector included
- Output status readback
- Retained relay output values when hot system reset
- High-voltage isolation on input channels (3,750 V<sub>DC</sub>)
- High ESD protection (2,000 V<sub>DC</sub>)
- High over-voltage protection (70 V<sub>DC</sub>)
- Wide input range (10 ~ 50 V<sub>DC</sub>)
- Interrupt handling capability
- BoardID™ switch





## Introduction

The PCI-1761 relay actuator and isolated DI card is an add-on card for the PCI bus. It provides 8 optically-isolated digital inputs with isolation protection of 3,750  $V_{DC}$  for collecting digital inputs in noisy environments and 8 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-1761's eight optically-isolated digital input channels are ideal for digital input in noisy environments or with floating potentials.

The PCI-1761 digital input channels feature a rugged isolation protection for industrial, lab and machinery automation applications. It durably withstands voltage up to 3,750  $V_{DC}$ , protecting your host system from any incidental harms. If connected to an external input source with surge-protection, the PCI-1761 can offer up to a maximum of 2,000  $V_{DC}$  ESD (Electrostatic Discharge) protection. Even with an input voltage rising up to 70  $V_{DC}$ , the PCI-1761 can still manage to work properly, albeit for only a short period of time.

## **Specifications**

#### **Isolated Digital Input**

• Channels 8

• Input Voltage Logic 0: 3 V max.

Logic 1: 5V min. (50V max.).

Interrupt Capable Ch.
Isolation Protection
Overvoltage Protection
Opto-Isolator Response

Input Resistance 5,600 Ω

• Input Current  $1.6 \text{ mA} @ 10 \text{ V}_{DC}, 8.9 \text{ mA} @ 50 \text{ V}_{DC}$ 

### **Relay Output**

Channels

Relay Type SPDT (4 x Form C, and 4 x Form A)
Contact Rating 250 V<sub>AC</sub> @ 3 A, or 24 V<sub>DC</sub> @ 3 A

Relay on Time 15 ms max.
Relay off Time 5 ms max.
Life Span 2 x 10<sup>7</sup> operations

Resistance

Contact:  $50 \text{ M}\Omega$  Insulation:  $1 \text{ G}\Omega$  min.

#### General

Bus Type PCI V2.2

• Operating Temperature  $~0\sim60^{\circ}$  C (32  $\sim140^{\circ}$  F) (IEC 68-2-1, 2)

• Storage Temperature  $-20 \sim 70^{\circ} \text{ C } (-4 \sim 158^{\circ} \text{ F})$ 

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

## **Ordering Information**

PCI-1761
8-ch Relay/Isolated Digital Input PCI Card

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

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