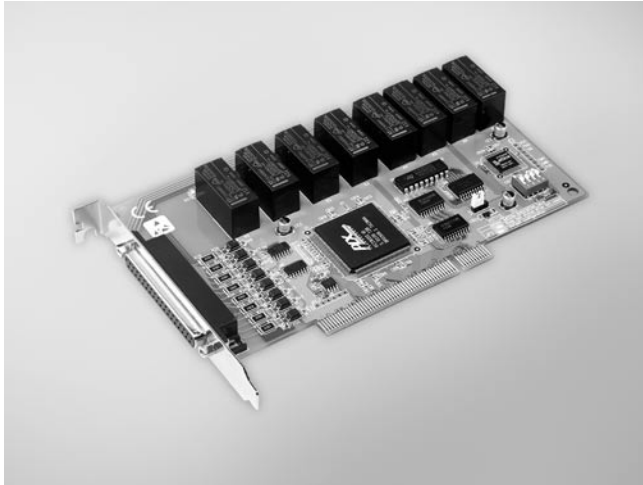


# PCI-1761

## 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<sub>DC</sub> 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<sub>DC</sub>, 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<sub>DC</sub> ESD (Electrostatic Discharge) protection. Even with an input voltage rising up to 70 V<sub>DC</sub>, 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.** 8
- **Isolation Protection** 3,750 V<sub>DC</sub>
- **Overvoltage Protection** 70 V<sub>DC</sub>
- **Opto-Isolator Response** 25 μs
- **Input Resistance** 5,600 Ω
- **Input Current** 1.6 mA @ 10 V<sub>DC</sub>, 8.9 mA @ 50 V<sub>DC</sub>

#### Relay Output

- **Channels** 8
- **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 MΩ  
Insulation: 1 GΩ min.

#### General

- **Bus Type** PCI V2.2
- **I/O Connectors** 1 x DB37 female connector
- **Dimensions (L x H)** 175 x 100 mm (6.9" x 3.9")
- **Power Consumption** Typical: +5 V @ 220 mA  
Max.: +5 V @ 750 mA
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F) (IEC 68-2-1, 2)
- **Storage Temperature** -20 ~ 70° C (-4 ~ 158° 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