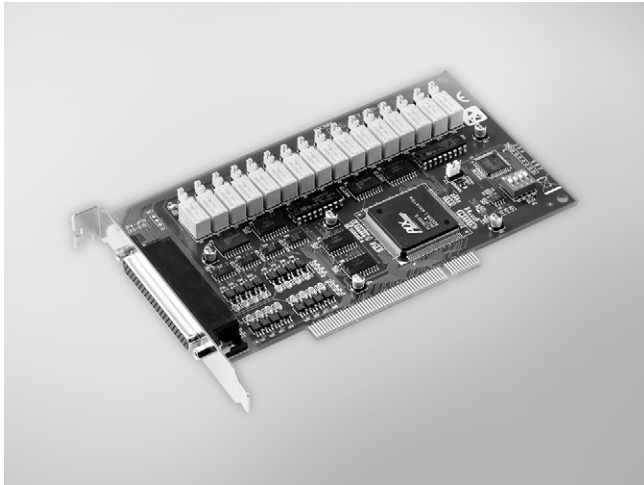


# PCI-1762

## 16-ch Relay and 16-ch Isolated Digital Input PCI 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 readback
- Retain relay output values when hot system reset
- High-voltage isolation on input channels (2,500 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
- High-density DB62 connector
- BoardID™ switch

### Introduction

The PCI-1762 relay actuator and isolated DI 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<sub>DC</sub> 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<sub>DC</sub>
- **Overvoltage Protection** 70 V<sub>DC</sub>
- **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<sub>AC</sub> or 1 A @ 30 V<sub>DC</sub>
- **Relay on Time** 6 ms max.
- **Relay off Time** 4 ms max.
- **Life Span** 2 x 10<sup>6</sup> ops. min. (0.5 A @ 125 V<sub>AC</sub>),  
5 x 10<sup>6</sup> ops. min. (1 A @ 30 V<sub>DC</sub>)
- **Resistance** Contact: 50 MΩ  
Insulation: 1,000 MΩ min. (at 500 V<sub>DC</sub>)

#### General

- **Bus Type** PCI V2.2
- **I/O Connectors** 1 x DB62 female connector
- **Dimensions (L x H)** 175 x 100 mm (6.9" x 3.9")
- **Power Consumption** Typical: +5 V @ 250 mA  
Max: +5 V @ 620 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 % non-condensing (IEC 68-2-3)

### Ordering Information

- **PCI-1762** 16-ch Relay/Isolated Digital Input PCI Card
- **PCL-10162-1** DB62 Cable, 1 m
- **PCL-10162-3** DB62 Cable, 3 m
- **ADAM-3962** DB62 DIN-rail Wiring Board

### Pin Assignments

|         |          |        |            |
|---------|----------|--------|------------|
|         | 21       | R0_OUT | 42 R6_OUT  |
| R11_OUT | 62 42 20 | R0_COM | 41 R6_COM  |
| R11_COM | 61 41 19 | R1_OUT | 40 R7_OUT  |
| R12_OUT | 60 40 18 | R1_COM | 39 R7_COM  |
| R12_COM | 59 39 17 | R2_OUT | 38 R8_OUT  |
| R13_OUT | 58 38 16 | R2_COM | 37 R8_COM  |
| R13_COM | 57 37 15 | R3_OUT | 36 R9_OUT  |
| R14_OUT | 56 36 14 | R3_COM | 35 R9_COM  |
| R14_COM | 55 35 13 | R4_OUT | 34 R10_OUT |
| R15_OUT | 54 34 12 | R4_COM | 33 R10_COM |
| R15_COM | 53 33 11 | R5_OUT | 32 NC      |
| NC      | 52 32 10 | R5_COM | 31 NC      |
| NC      | 51 31 9  | NC     | 30 NC      |
| ECOM3   | 50 30 8  | IDI15  | 29 IDI14   |
| ECOM3   | 49 29 7  | IDI13  | 28 IDI12   |
| ECOM2   | 48 28 6  | IDI11  | 27 IDI10   |
| ECOM2   | 47 27 5  | IDI9   | 26 IDI8    |
| ECOM1   | 46 26 4  | IDI7   | 25 IDI6    |
| ECOM1   | 45 25 3  | IDI5   | 24 IDI4    |
| ECOM0   | 44 24 2  | IDI3   | 23 IDI2    |
| ECOM0   | 43 23 1  | IDI1   | 22 IDI0    |