

# 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>5</sup> ops. min. (0.5 A @ 125 V<sub>AC</sub>),  
5 x 10<sup>5</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

R11_OUT	62	42	21	R0_OUT	42	R6_OUT
R11_COM	61	41	20	R0_COM	41	R6_COM
R12_OUT	60	40	19	R1_OUT	40	R7_OUT
R12_COM	59	39	18	R1_COM	39	R7_COM
R13_OUT	58	38	17	R2_OUT	38	R8_OUT
R13_COM	57	37	16	R2_COM	37	R8_COM
R14_OUT	56	36	15	R3_OUT	36	R9_OUT
R14_COM	55	35	14	R3_COM	35	R9_COM
R15_OUT	54	34	13	R4_OUT	34	R10_OUT
R15_COM	53	33	12	R4_COM	33	R10_COM
NC	52	32	11	R5_OUT	32	NC
NC	51	31	10	R5_COM	31	NC
ECOM3	50	30	9	NC	30	NC
ECOM3	49	29	8	ID115	29	ID114
ECOM2	48	28	7	ID113	28	ID112
ECOM2	47	27	6	ID111	27	ID110
ECOM1	46	26	5	ID19	26	ID18
ECOM1	45	25	4	ID17	25	ID16
ECOM0	44	24	3	ID15	24	ID14
ECOM0	43	23	2	ID13	23	ID12
ECOM0	43	23	1	ID11	22	ID10