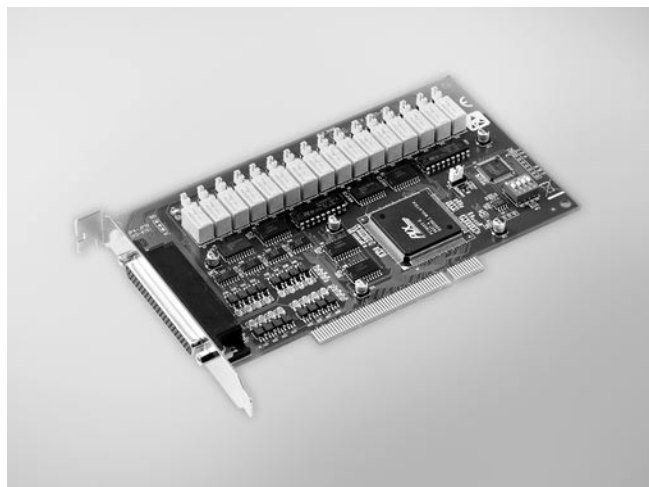


PCI-1762

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_{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 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_{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

- **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_{DC}
- **Overvoltage Protection** 70 V_{DC}
- **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_{AC} or 1 A @ 30 V_{DC}
- **Relay on Time** 6 ms max.
- **Relay off Time** 4 ms max.
- **Life Span** 2 x 10⁵ ops. min. (0.5 A @ 125 V_{AC}),
5 x 10⁵ ops. min. (1 A @ 30 V_{DC})
- **Resistance** Contact: 50 MΩ
Insulation: 1,000 MΩ min. (at 500 V_{DC})

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	ID115	29 ID114
ECOM3	49 29 7	ID113	28 ID112
ECOM2	48 28 6	ID111	27 ID110
ECOM2	47 27 5	ID19	26 ID18
ECOM1	46 26 4	ID17	25 ID16
ECOM1	45 25 3	ID15	24 ID14
ECOM0	44 24 2	ID13	23 ID12
ECOM0	43 23 1	ID11	22 ID10
	22		

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