PCIE-1760

8-Ch Relay and 8-Ch Isolated Digital **Input PCI Express Card**



Features

- 8 opto-isolated digital input channels with counter/timer function
- 8 relay actuator output channels
- 2 opto-isolated PWM outputs
- LED indicators to show activated relays
- Jumper-selectable dry/wet-contact input signals
- Up event counters for DI
- Programmable digital filter function for DI
- Pattern match interrupt function for DI
- Change-of-state interrupt function for DI
- Board ID switch

FCC CE ROHS

Introduction

The PCIE-1760 relay actuator and isolated digital input card is a PC add-on card for the PCI Express bus that satisfies the PCI Express (Revision 1.0) standard. PCIE-1760 features 8 opto-isolated digital inputs with up to 2,500 V_{DC} isolation protection for collecting digital inputs in noisy environments, 8 relay actuators that can be used as on/off control devices or small power switches, and 2 isolated PWM (pulse width modulation) outputs for custom applications.

For easy monitoring, each relay is equipped with a single red LED that indicates the on/off status. Each isolated input supports both dry and wet contact to enable easy interfacing with other devices when no voltage is present in the external circuit.

Specifications

Isolated Digital Input

Channels

Input Voltage Logic 0: 3.0V max.

Logic 1: 10V min. (30V max.)

Interruptible Channels 1

 Isolation Protection $2,500 V_{DC}$

■ Opto-Isolator Response 50 µs

 Input Resistance 3.2KΩ @1W

Counter/Timer

Channels

Resolution 32 bits

Compatibility 5 V/TTL

Max. Input Frequency 1KHz

Isolation Protection 2,500 V_{DC}

PWM Channels

 Digital Noise Filter PWM High Period : 100 μ s ~ [(2³²-1) x 50] μ s,

deviation: ± 60 µs

PWM Low Period : 100 μ s ~ [(2³²-1) x 50] μ s,

deviation: ± 60 µs

Relay Output

Channels 8

Relay Type 2 x Form C, and 6 x Form A Contact Rating 125VAC@0.5A, 30VDC@1A

62.5VA, 30W

• Operate/Release Time 5 / 3.5 ms max

Resistance <100m Ω initially

 Life Expectancy 200,000@0.5A, 125V_{AC} (Electrical) 500,000@1.0A, 30Vpc

All product specifications are subject to change without notice.

General

PCI Express V1.0 Bus Type I/O Connectors 1 x DB37, female

Dimensions (L x H) 168 x 100 mm (6.6" x 3.9")

 Power Consumption Typical: +3.3V@390mA, +12V@30mA Max.: +3.3V@490mA, +12V@60mA

• Operating Temperature $0 \sim 60 \,^{\circ}\text{C} \, (32 \sim 140 \,^{\circ}\text{F})$

-20 ~ 85 °C (-4 ~ 185 °F) Storage Temperature

 Storage Humidity 5 ~ 95 % RH, non-condensing

Ordering Information

 PCIE-1760-AE 8-ch relay/IDI PCle card w/10-ch counter/timer

Accessories

PCL-10137-1E DB37 cable, 1 m PCL-10137-2E DB37 cable, 2 m

PCL-10137-3E DB37 cable, 3 m DB37 DIN rail wiring board ADAM-3937-AE

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Industrial I/O