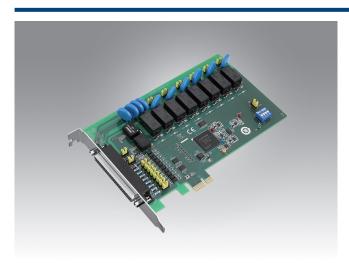
PCIE-1760

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 Counter I/O (PWM, Event Counting, Frequency Measurement and Timer/Pulse)
- 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



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 Vpc 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 counters 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 8

 Isolation Protection 2,500 V_{DC}

• Opto-Isolator Response 100 µs max.

Counter/Timer

Channels 2

 Resolution 32 bits

Sink(NPN): 5-40VDC Compatibility

Source: 5V/TTL 1KHz Max.

Input Frequency* Isolation Protection

2.500 Vnc

 Input Debounce Filter 1 μs ~ 255 μs, high/low period set independently,

software configurable

Relay Output

Channels

Form C x 2, form A/B x 6, selected by jumpers Relay Type

 Contact Rating 125V_{AC} @ 0.5A, 30V_{DC} @ 1A

62.5VA, 30W

• Operate/Release Time 5 / 3.5 ms max Resistance <100m Ω initially

 Life Expectancy 30 V_{DC} @ 1A, 125 V_{AC} @ 1 A: 3 x 105 operations min., (Electrical) 30 V_{DC} @ 1 A, 125 V_{AC} @ 0.5 A: 106 operations min.

General

Bus Type PCI Express x1, V1.0 I/O Connectors 1 x DB37, female

 Dimensions (L x W x H) 175 x 100 x 18 mm³ (6.9" x 3.9" x 0.7") Power Consumption +3.3 V: 150 mA typ., 750 mA max.

+12 V: 40 mA typ., 80 mA max.

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

• Storage Temperature $-20 \sim 70 \,^{\circ}\text{C} \, (-4 \sim 158 \,^{\circ}\text{F})$

 Storage Humidity 5 ~ 95% RH, non-condensing

Ordering Information

■ PCIE-1760-B 8-ch relay/IDI PCIe card w/ counter/timer

Accessories

PCL-10137-1E DB37 cable, 1 m PCL-10137-2E DB37 cable, 2 m PCL-10137-3E DB37 cable, 3 m

- ADAM-3937-BE DB37 DIN-rail Wiring Board

* Input for event counting, frequency measurement, refer to user manual for more details