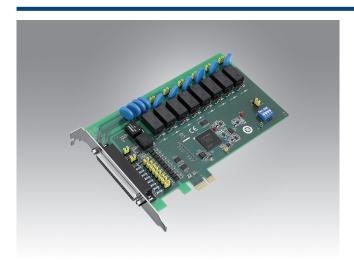
# **PCIE-1760**

# 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 tha 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 colated 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<sub>DC</sub>

• Opto-Isolator Response 100 µs max.

Input Debounce Filter
1 μs ~ 255 μs, s. ftware configurable

#### Counter/Timer

Channels

32 bits Resolution

Sink(NPN): 5-40Vpc Compatibility

Source: 5V/TTL

Input Frequency\* 1KHz Max. Isolation Protection 2,500 V<sub>DC</sub>

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

software configurable

#### **Relay Output**

Channels

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

 Contact Rating 125Vac @ 0.5A, 30Vpc @ 1A

62.5VA, 30W

• Operate/Release Time 5 / 3.5 ms max Resistance <100m $\Omega$  initially

 Life Expectancy  $30 \text{ V}_{DC} @ 1A, 125 \text{ V}_{AC} @ 1 \text{ A}: 3 \times 10^5 \text{ operations min.},$ (Electrical) 30  $V_{DC}$  @ 1 A, 125  $V_{AC}$  @ 0.5 A: 10 $^6$  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 mm (6.9" x 3.9" x 0.7") **Power Consumption** +3.3 V: 150 mA tvp., 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 ~ 70 °C (-4 ~ 158 °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

DB37 DIN-rail Wiring Board ADAM-3937-BE

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