# **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

## FCC C E

## 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<sub>DC</sub> 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**

<ul> <li>Channels</li> </ul>	
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Input Voltage Logic 0: 3.0V max. Logic 1: 10V min. (30V max.)

8

- Interruptible Channels 8
- Isolation Protection 2,500 V<sub>DC</sub>
- Opto-Isolator Response 100 µs max.
- Input Debounce Filter 1 µs ~ 255 µs, software configurable

2

#### **Counter/Timer**

- Channels
- Resolution 32 bits Sink(NPN): 5-40Vpc Compatibility Source: 5V/TTL Input Frequency\* 1KHz Max. 2,500 V<sub>DC</sub>

8

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

#### **Relay Output**

- Channels
- Relay Type
- Contact Rating

62.5VA, 30W • Operate/Release Time 5 / 3.5 ms max

- Resistance  $<100m\Omega$  initially Life Expectancy 30 V<sub>DC</sub> @ 1A, 125 V<sub>AC</sub> @ 1 A: 3 x 10<sup>5</sup> operations min., (Electrical) 30 V<sub>DC</sub> @ 1 A, 125 V<sub>AC</sub> @ 0.5 A: 10<sup>6</sup> operations min.

125VAC @ 0.5A, 30VDC @ 1A

software configurable

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

#### General

- Bus Type
- 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")

PCI Express x1, V1.0

5~95% RH, non-condensing

- Power Consumption +3.3 V: 150 mA tvp., 750 mA max.
  - +12 V: 40 mA typ., 80 mA max.
- Operating Temperature 0 ~ 60 °C (32 ~ 140 °F)
- Storage Temperature -20 ~ 70 °C (-4 ~ 158 °F)
- Storage Humidity

#### **Ordering Information** 8-ch relay/IDI PCIe card w/ counter/timer

PCIE-1760-B

#### 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

Industrial I/O AD\ANTECH

#### All product specifications are subject to change without notice.

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