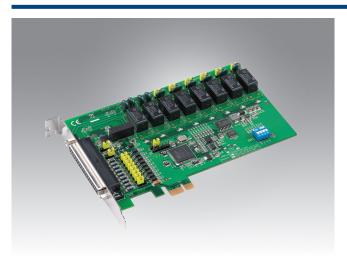
# **PCIE-1760**

## 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

### 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 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: 1.0 V max.

Logic 1: 4.5 V min. (12 V max.)

Interruptible Channels 8
 Isolation Protection 2,500 V<sub>DC</sub>
 Opto-Isolator Response 25 µs
 Input Resistance 2 kΩ 1/4 W

#### Counter/Timer

Channels 8
 Resolution 16 bits
 Compatibility 5 V/TTL
 Max. Input Frequency 1500 Hz
 Isolation Protection 2,500 V<sub>DC</sub>
 PWM Channels 2

■ **Digital Noise Filter** Min. effective high input period  $\geq$  [(2 ~ 65535) x 5 ms]

± 5 m

Min. effective low input period  $\geq$  [(2 ~ 65535) x 5 ms]

+ 5 ms

#### **Relay Output**

• Channels 8

Relay Type
 Contact Rating
 2 x Form C, and 6 x Form A
 A @ 125 V<sub>AC</sub>, 2 A @ 30 V<sub>DC</sub>

Max. Switching Power 125 VA, 60 W
 Max. Switching Voltage 250 V<sub>AC</sub>, 220 V<sub>DC</sub>

• Max. Switching Current 2 A

Operate/Release Time 5 / 3.5 ms max
 Resistance 5 / 0.5 ms max

Insulation: 100 M $\Omega$  min. @ 500 V $_{DC}$ 

#### General

■ Bus Type PCI Express V1.0
■ I/O Connectors 1 x DB37, female
■ Dimensions (L x H) 168 x 100 mm (6.6" x 3.9")
■ Power Consumption Typical: 5 V @ 450 mA Max.: 5 V @ 850 mA
■ Operating Temperature 0 ~ 60 ° C (32 ~ 140 ° F)
■ Storage Temperature -20 ~ 70 ° C (-4 ~ 158 ° F)
■ 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

■ ADAM-3937-AE DB37 DIN rail wiring board