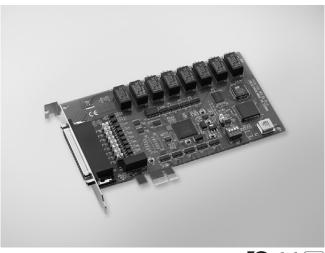
# **PCIE-1760**

## 8-ch Relay and 8-ch Isolated Digital Input **PCI Express Card with 10-ch Counter/Timer**



#### **Features**

- 8 opto-isolated digital input channels
- 8 relay actuator output channels
- 2 opto-isolated PWM outputs
- LED indicators to show activated relays
- Jumper selectable dry contact/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
- BoardID switch







PCIE-1760 relay actuator and isolated digital input card is a PC add-on card for the PCI Express bus. It meets the PCI Express standard Rev. 1.0. It provides 8 opto-isolated digital inputs with isolation protection of 2,500 Vpc for collecting digital inputs in noisy environments, 8 relay actuators that can be used as a 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 one red LED to show its on/off status. Each isolated input supports both dry contact and wet contact so that it can easily interface with other devices when no voltage is present in the external circuit.

# **Specifications**

#### **Isolated Digital Input**

Channels 8 (Sink)

Logic 0: 1.0 V max. Input Voltage

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

 Interrupt Capable Ch. 8 (IDI0 ~ IDI7) Isolation Protection  $2,500 V_{DC}$ ■ Opto-Isolator Response 25 µs Input Resistance 2 kΩ 1/4 W

#### Counter/Timer

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

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

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

+ 5 ms

#### **Relay Output**

Channels

 Relay Type 2 x Form C, and 6 x Form A Contact Rating 1 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 max. 5 / 3.5 ms Resistance Contact:  $50 \text{ m}\Omega$  max.

Insulation: 100 M $\Omega$  min. @ 500 V<sub>DC</sub>

 Life Expectancy  $3~x~10^5$  cycles min.: 2 A @ 30  $V_{DC},\,1$  A @ 125  $V_{AC}$ (Electrical) 106 cycles min.: 1 A @ 30 V<sub>DC</sub>, 0.5 A @ 125 V<sub>AC</sub>

#### General

Bus Type PCI Express V1.0 I/O Connectors 1 x DB37 female connector 168 x 100 mm (6.6" x 3.9") Dimensions (L x H) Typical: 5 V @ 450 mA **Power Consumption** Max.: 5 V @ 850 mA

Operating Temperature 0 ~ 60°C (32 ~ 140°F) (IEC 68 - 2 - 1, 2)

-20 ~ 70°C (-4 ~ 158°F) Storage Temperature

 Storage Humidity 5 ~ 95 % RH, non-condensing (IEC 68-2-3)

### **Ordering Information**

 PCIE-1760 8-ch Relay/IDI PCIe Card w/ 10-ch Counter/Timer

#### **Accessories**

PCL-10137-1 DB37 Cable, 1 m PCL-10137-2 DB37 Cable, 2 m PCI -10137-3 DB37 Cable, 3 m

 ADAM-3937 DB37 DIN-rail Wiring Board