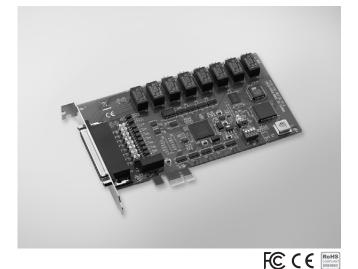
PCIE-1760

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 .

Introduction

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 V_{DC} 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
- Input Voltage Logic 1: 4.5 V min. (12 V max.)
- Interrupt Capable Ch.

8 (IDI0 ~ IDI7) Isolation Protection 2.500 Vpc

8

16 bits

5 V/TTL

- Opto-Isolator Response 25 µs
- Input Resistance $2 \text{ k}\Omega 1/4 \text{ W}$

Counter/Timer

- Channels
- Resolution
- Compatibility
- Max. Input Frequency 500 Hz 2.500 Vpc
- Isolation Protection
- PWM Channels
- Digital Noise Filter

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

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

Relay Output

- Channels
- 2 x Form C, and 6 x Form A Relay Type
- Contact Rating $1 \ A @ \ 125 \ V_{AC}, 2 \ A @ \ 30 \ V_{DC}$

8

- Max. Switching Power 125 VA, 60 W
- Max. Switching Voltage 250 VAC, 220 VDC
- Max. Switching Current 2 A
- Operate/Release Time max. 5 / 3.5 ms
- Resistance
- Contact: 50 m Ω max. Insulation: 100 M Ω min. @ 500 V_{DC}
- 3 x 105 cycles min.: 2 A @ 30 VDC, 1 A @ 125 VAC Life Expectancy (Electrical) 106 cycles min.: 1 A @ 30 V_{DC}, 0.5 A @ 125 V_{AC}

General

- Bus Type
- I/O Connectors
- Dimensions (L x H)
- 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)

Typical: 5 V @ 450 mA

PCI Express V1.0

1 x DB37 female connector

168 x 100 mm (6.6" x 3.9")

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

Ordering Information

PCIE-1760

Accessories

- PCL-10137-1 PCL-10137-2
- PCL-10137-3
- ADAM-3937
- DB37 Cable, 2 m DB37 Cable, 3 m

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

DB37 DIN-rail Wiring Board

DB37 Cable, 1 m

AD\ANTECH **Data Acquisition Boards**

8 (Sink) Logic 0: 1.0 V max.