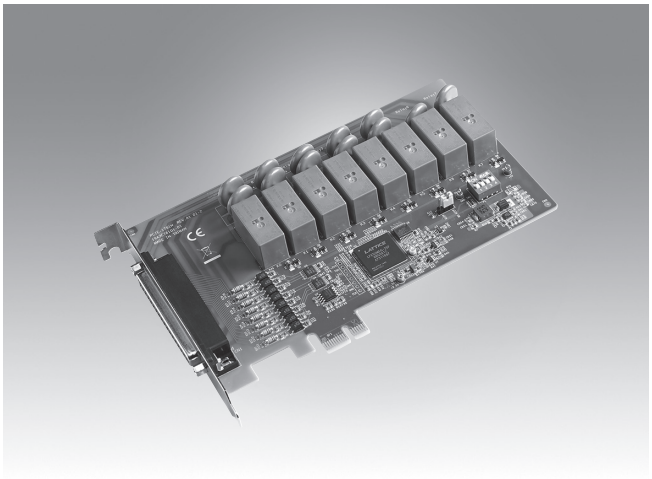
# PCIE-1761H

## 8-ch Relay and 8-ch Isolated Digital Input w/ digital filter and interrupt PCIe Card



## Features

- 8 opto-isolated digital input channels
- 8 relay actuator output channels
- Interrupt handling capability for all DI channels
- Selectable Digital filter time for all DI channels
- Output status readable
- LED indicator to show activated relays
- Selectable Form A or Form C

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## Introduction

The PCIE-1761H 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.

All of the input signals can be used as interrupt request signals and also disable or enable the interrupt in each channel and support the edge of the input signals, at which to generate an interrupt. all of PCIE-1761H DI channel has a digital filter to prevent wrong recognition of input signals from carrying noise or a chattering.

## Specifications

### Isolated Digital Input

- **Channels** 8
- **Input Voltage** Logic 0: 3.0 V max.
  Logic 1: 10 V min. (30V max.)
- **Input current** 4.1mA @ 12 $V_{DC}$
  7.7mA @ 24 $V_{DC}$
- **Over-voltage protect** 70 $V_{DC}$
- **Interrupt Capable Ch.** 8 (IDI0 ~ IDI7)
- **Isolation Protection** 2,500 $V_{DC}$
- **Opto-Isolator Response** 100 µs
- **Input Resistance** 2.7k Ohm @ 1 W
- **Digital Filter Time**

| Setting Data (n) | Digital Filter Time | Setting Data (n) | Digital Filter Time |
|---|---|---|---|
| 7 (07h) | 16µsec | 14 (0Eh) | 2.048msec |
| 8 (08h) | 32µsec | 15 (0Fh) | 4.096msec |
| 9 (09h) | 64µsec | 16 (10h) | 8.192msec |
| 10 (0Ah) | 128µsec | 17 (11h) | 16.384msec |
| 11 (0Bh) | 256µsec | 18 (12h) | 32.768msec |
| 12 (0Ch) | 512µsec | 19 (13h) | 65.536msec |
| 13 (0Dh) | 1.024msec | 20 (14h) | 131.072msec |

### Relay Output

- **Channels** 8
- **Relay Type** 4 x Form C, and 4 x Form A
- **Contact Rating** 2 A @ 250 $V_{AC}$, 2 A @ 30 $V_{DC}$
- **Max. Switching Power** 500 VA, 60 W
- **Max. Switching Voltage** 400 $V_{AC}$, 300 $V_{DC}$
- **Operating Time** Typical: 7ms
- **Release Time** Typical: 2ms
- **Resistance** Contact: 100 m Ohm max.
- **Breakdown Voltage** 1000 $V_{AC}$
- **Life Expectancy** 3 x $10^6$ cycles min. @ 2A/ 250$V_{AC}$

### General

- **I/O Connectors** 1 x DB37 female connector
- **Dimensions (L x H)** 168 x 100 mm (6.6" x 3.9")
- **Power Consumption** Typical: 3.3V @250mA
  Max. : 3.3V @1600mA
- **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-1761H-AE** 8-ch Relay and 8-ch Isolated Digital Input PCIe Card

### Accessories

- **PCL-10137-1E** DB37 Cable, 1 m
- **PCL-10137-2E** DB37 Cable, 2 m
- **PCL-10137-3E** DB37 Cable, 3 m
- **ADAM-3937-BE** DB37 DIN-rail Wiring Board