# PCIE-1756 PCIE-1756H

# 64-Ch Isolated Digital I/O PCIe Card 64-Ch Isolated Digital I/O PCIe Card with Digital Filter and Interrupt Function



#### **Features**

- 32-ch isolated digital input
- 32-ch isolated digital output with wide output range (5 ~ 40 V<sub>DC</sub>)
- Interrupt handling capability
- Software-selectable digital filter time for all DI channels (PCIE-1756H only)
- Output status read back
- · Retains the output settings and values after system hot reset

# FCC CE ROHS

#### Introduction

PCIE-1756 and PCIE-1756H are isolated DI/O cards that offer 64 isolated digital input/output channels with up to 2,500  $V_{DC}$  isolation protection. Featuring a wide input (10 ~ 30  $V_{DC}$ ) output (5 ~ 40  $V_{DC}$ ) range and high sink current (500mA max./channel), PCIE-1756 and PCIE-1756H are ideal for use in industrial automation control systems. For PCIE-1756, all signals can be used as interrupt request signals and to disable/enable the interrupt function for every channel, as well as to support the input signal edge, which generates interrupts. All PCIE-1756H digital input channels have a digital filter to prevent inaccurate recognition of input signals that contain noise or chattering.

### **Specifications**

#### **Isolated Digital Input**

• Channels 32

• Input Voltage Logic 0: 3 V max.

Logic 1: 10 V min. (30 V<sub>DC</sub> max.)

■ **Input Current** 10 V<sub>DC</sub> @ 2.97 mA

 $20 \; V_{DC} \; @ \; 6.35 \; mA \\ 30 \; V_{DC} \; @ \; 9.73 \; mA$ 

■ Interruptible Channels PCIE-1756: 2 (IDIO, IDI16)

PCIE-1756H: 32

Isolation Protection 2,500 V<sub>DC</sub>
 Overvoltage Protection 70 V<sub>DC</sub>
 ESD Protection 2,000 V<sub>DC</sub>
 Opto-Isolator Response 50 µs

Digital Filter Time (PCIE-1756H only)

Setting Data (n)	Digital Filter Time	Setting Data (n)	Digital Filter Time	Setting Data (n)	Digital Filter Time
Data (II)	Tittoi Titto	Data (II)	Tittoi Titto	14 (0Eh)	2.048msec
				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

#### **Isolated Digital Output**

Channels 32
 Output Type Sink (NPN)
 Isolation Protection 2,500 V<sub>DC</sub>
 Output Voltage 5 ~ 40 V<sub>DC</sub>

• Sink Current 500 mA max./channel

■ Opto-isolator Response 50 µs

#### General

Bus Type PCI Express V1.0
 I/O Connectors 1 x 100-pin SCSI, female
 Dimensions (L x H) 168 x 100 mm (6.6" x 3.9")
 Power Consumption Typical: 3.3 V @ 385 mA Max.: 3.3 V @ 430 mA; 12V @ 55 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-1756-BE 64-ch isolated digital I/O PCIe card

• PCIE-1756H-BE 64-ch isolated digital I/O PCIe card with digital filter

and interrupt function

#### **Accessories**

PCL-10250-1E
 PCL-10250-2E
 ADAM-3951-BE
 PCL-10250R-1E
 PCL-10250R-2E
 ADAM-3951-RE
 PCL-10250R-1E
 PCL-10250R-2E
 ADAM-3951R-AE
 SCSI100 Pin Type to SCSI 50 Pin Ribbon, 2m
 SCRW-Terminal Board w/ Ribbon connector