PCIE-1730 PCIE-1730H

32-Ch TTL, 32-Ch Isolated Digital I/O PCIe

32-Ch TTL, 32-Ch Isolated Digital I/O PCIe **Card with Digital Filter and Interrupt Function**



Features

- 32-ch isolated DI/O (16-ch digital input, 16-ch digital output)
- 32-ch TTL DI/O (16-ch digital input, 16-ch digital output)
- High output driving capacity
- Interrupt handling capability
- Selectable digital filter time
- D-type connector for isolated input and output channels
- High-voltage isolation on output channels (2,500 V_{DC})

FCC CE ROHS

Introduction

PCIe-1730/1730H feature 32 TTL digital I/O channels and 32 digital I/O channels with up to 2,500 V_{DC} isolation, rocketion, making them ideal for industrial applications that require high-voltage isolation. For PCIE-1730H, all signals can be used as interrupt request signals and to disable en interrupt function for every channel, as well as to support the input signal edge, which generates interrupts. All PCIE-1730 digital input channels have a digital filter to greve at inaccurate recognition of input signals that contain noise or chattering.

Specifications

Digital Input

Channels Compatibility 5 V/TTL

 Input Voltage Logic 0: 0.8 V max. Logic 1: 2.0 V min. Interruptible Channels

PCIE-1730: 2 (IDI0, IDI8) PCIE-1730H: 16

Isolated Digital Input

Channels

Logic 0: 3 V max. Input Voltage

Logic 1: 10 V min. (30 V max

 Interruptible Channels PCIE-1730: 2 (ID.2 IDI8)

PCIE-1.730 H: 16

 Isolation Protection 2,500 V_{DC} **Response Time** 100µs Input Resistance 27kQ@1W

Digital Filter Time (PCIE-1730H only)

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

Digital Output

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Channels Compatibility 5 V/TTL

Output Voltage Logic 0: 0.5V max. Logic 1: 2.4V min.

 Output Capability Sink: 24mA @ 0.5V Source: 15mA @ 2.4V

Is plated Digital Output

Channels

Output Type Sink type (NPN) **Isolation Protection** $2,500 \, V_{DC}$ **Output Voltage** $5 \sim 40 V_{DC}$

Sink Current 500 mA max./channel

Response Time 100µs

General

Bus Type PCI Express V1.0 I/O Connectors 1 x DB37, female 4 x 20-pin box header

 Dimensions (L x H) 168 x 100 mm (6.6" x 3.9")

Typical:3.3 V @ 280 mA, 12 V @ 330 mA Power Consumption Max.: 3.3 V @ 420 mA, 12 V @ 400 mA

Operating Temperature $0 \sim 60 \,^{\circ}\text{C} \, (32 \sim 140 \,^{\circ}\text{F})$ **Storage Temperature** -25 ~ 85 °C (-13 ~ 185 °F) Storage Humidity 5 ~ 95% RH, non-condensing

Ordering Information

 PCIE-1730-BE 32-ch TTL and 32-ch isolated digital I/O PCle card 32-ch TTL and 32-ch isolated digital I/O PCIe card with PCIE-1730H-BE digital filter and interrupt function

Accessories

PCL-10137-3E

PCL-10120-1E 20-pin flat cable, 1 m PCL-10120-2E 20-pin flat cable, 2 m

ADAM-3920-AE 20-pin DIN rail flat cable wiring board

PCLD-782-BE 16-ch isolated DI board w/1 m, 20-pin flat cable PCLD-885-AE 16-ch power relay board w/20-pin and 50-pin flat

cables

16-ch relay board w/1 m, 20-pin flat cable PCLD-785-BE

DB37 cable, 3 m

 ADAM-3937-BE DB37 DIN rail wiring board PCL-10137-1E DB37 cable, 1 m DB37 cable, 2 m PCL-10137-2E