**PCL-730**



**32-ch Isolated Digital**

**I/0 ISA Card**



**Features**

**** 32 isolated DIO ch. (16 inputs and 16 outputs) **** 32 TTL-level DIO ch. (16 inputs and 16 outputs) **** High output driving capacity **** Interrupt capability

**** Two 20-pin connectors for isolated digital I/O channels and two for TTLdigital I/O channels

**** D-type connector for isolated input and output channels **** High-voltage isolation on output channels



**RoHS**



**COMPLIANT**

2002/95/EC

**Introduction**

The PCL-730 offers isolated digital input channels as well as isolated digital output channels with isolation protection up to 2,500 VDC, which makes them ideal for industrial applications where high-voltage isolation is required. There are also 32 TTL DIO channels.

**Specifications**

**Digital Input**

|  |  |  |
| --- | --- | --- |
| **** | **Channels** | 16 |
| **** | **Compatibility** | 5 | V/TTL |
| **** | **Input Voltage** | Logic 0: 0.8 V max. |
|  |  | Logic 1: 2.0 V min. |
| **** | **Interrupt Capable Ch.** | 2 | (DI0, DI1) |

**Isolated Digital Input**

** Channels** 16

** Input Voltage** Logic 0: 1 V max.

Logic 1: 5 V min., 24 V max.

** Interrupt Capable Ch.** 2 (IDI0, IDI1)

** Isolation Protection** 2,500 VDC

** Opto-Isolator Response** 100 μs

** Input Resistance** 3 KΩ @ 0.2 W

**Digital Output**

|  |  |  |
| --- | --- | --- |
| **** | **Channels** | 16 |
| **** | **Compatibility** | 5 V/TTL |
| **** | **Output Voltage** | Logic 0: 0.8 V max. |
|  |  | Logic 1: 2.0 V min. |
| **** | **Output Capability** | Sink: 8 mA |
|  |  | Source: 0.4 mA |

**Isolated Digital Output**

|  |  |  |
| --- | --- | --- |
| **** | **Channels** | 16 |
| **** | **Output Type** | Sink type (NPN) |
| **** | **Isolation Protection** | 2,500 VDC |
| **** | **Output Voltage** | 5 ~ 40 VDC |
| **** | **Sink Current** | 200 mA max./channel |

** Opto-Isolator Response** 100ms



**General**

** Bus Type** ISA

** I/O Connectors** 1 x 37-pin D-type female

2 x 20-pin box header for fl at cable

** Dimensions (L x H)** 185 x 100 mm (7.3” x 3.9”)

** Power Consumption** Typical: 5 V @ 330 mA; 12 V @ 80 mA

Max.: 5 V @ 500 mA; 12 V @ 105 mA

** Operating Temperature** 0 ~ 60°C (32 ~ 140°F)

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

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

**Ordering Information**

** PCL-730** 32-channel isolated digital I/O card, user’s manual and

driver CD-ROM (cable not included)

** PCL-10120-1** 20-pin fl at cable, 1m

** PCL-10120-2** 20-pin fl at cable, 2m

** ADAM-3920** 20-pin fl at cable wiring terminal for DIN-rail mounting

** PCLD-782** 16-channel opto-isolated D/I board

** PCLD-785** 16-channel relay output board

** PCLD-885** 16-channel power relay (form A) output board

** PCL-10137-1** DB37 cable, 1m

** PCL-10137-2** DB37 cable, 2m

** PCL-10137-3** DB37 cable, 3m

** ADAM-3937** DB37 wiring terminal for DIN-rail mounting



**Data Acquisition Boards**