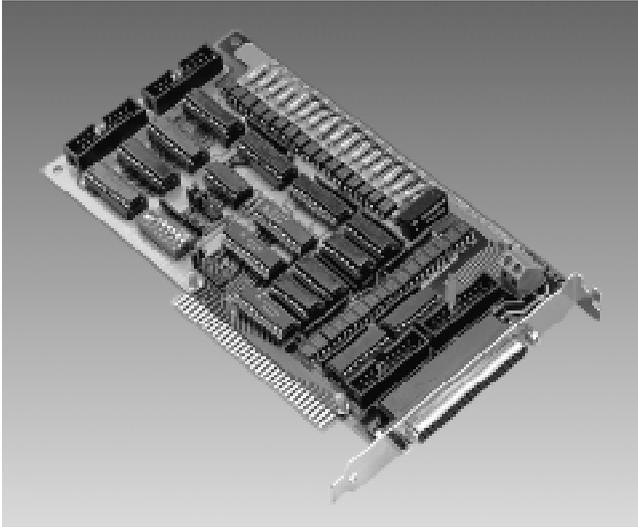


PCL-730

32-channel Isolated Digital I/O Card



Features

- 32 isolated DIO channels (16 inputs and 16 outputs)
- 32 TTL-level DIO channels (16 inputs and 16 outputs)
- High output driving capacity
- High-voltage isolation on isolated I/O channels (2,500 V_{DC})
- Interrupt capability
- Two 20-pin connectors for isolated digital I/O channels and two for TTL digital I/O channels
- D-type connector for isolated input and output channels
- High sink current on isolated output channels (200 mA/channel)
- Reverse voltage protection for isolated input channels (up to 24 V_{DC})

Introduction

The PCL-730 offers 32 isolated digital I/O channels (16 DI and 16 DO) and 32 TTL digital I/O channels (16 DI and 16 DO). Its isolated I/O channels provide 2,500 V_{DC} of protection. The PCL-730 offers one PC interrupt with jumper-selectable IRQ.

Each I/O channel corresponds to a bit in a PC I/O port. This makes the PCL-730 very easy to program.

Applications

- Industrial On/Off control
- Contact closure monitoring
- Switch status sensing
- BCD interfacing
- Digital I/O control
- Industrial and lab automation

Specifications

Digital Input

16 optically-isolated inputs

- **Input voltage:** 5 ~ 24 V_{DC}
- **Input resistance:** 1.2 k Ω @ 0.5 W
- **Isolation voltage:** 2,500 V_{DC}
- **Throughput:** 10 kHz max.

16 TTL-level inputs

- **Input voltage:** Low: 0.8 V max.
High: 2.0 V min.
- **Input load:** Low: 0.4 mA max. @ 0.5 V
High: 0.05 mA max. @ 2.7 V
- **Throughput:** 30 kHz typical

Digital Output

16 optically-isolated outputs

- **Output voltage:** Open collector 5 ~ 40 V_{DC}

- **Sink current:** 200 mA max. per channel
- **Isolation voltage:** 2,500 V_{DC}
- **Throughput:** 10 kHz max.

16 TTL-level outputs

- **Output voltage:**
Low: Sink 8 mA @ 0.5 V max.
High: Source 0.4 mA @ 2.4 V min.

Interrupt Source

- Channels 0 and 1 of Isolated DI port or
- Channels 0 and 1 of TTL DI port

General

- **Power Consumption:** +5 V @ 330 mA (typical)
+5 V @ 500 mA (max.)
- **Operating temperature:** 0 ~ +60° C (32 ~ 140° F)
- **Storage temperature:** -20 ~ +70° C (-4 ~ 158° F)
- **Operating humidity:** 5 ~ 95% RH non-condensing (refer to IEC 68-2-3)
- **Connector:** One 37-pin D-type female connector
- **Dimensions:** 185 mm (L) x 100 mm (H) (7.3" x 3.9")

Ordering Information

- PCL-730: 32-channel Isolated digital I/O card
- PCL-10137: DB-37 cable assembly, 1 m
- PCLD-782: 16-channel opto-isolated D/I board
- PCLD-785: 16-channel relay output board
- PCLD-786: 8-channel SSR I/O module carrier board
- PCLD-885: 16-channel power relay (form A) output board
- PCLD-780: Screw terminal board
- PCLS-OCX: ActiveX Control for data acquisition and control
- ADAM-3920: 20-pin flat cable wiring terminal for DIN-rail mounting
- ADAM-3937: DB-37 wiring terminal for DIN-rail mounting