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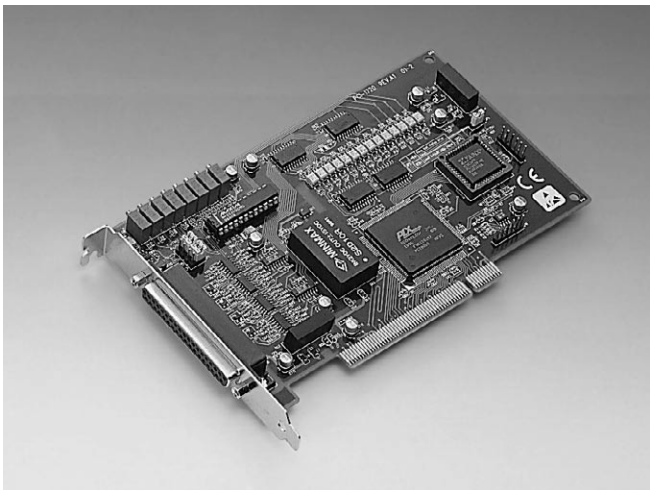
Find the *Advantech PCI-1720* at our website: ***Click HERE***

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com

PCI-1720
PCI-1720U

4-ch Isolated Analog Output Card

4-ch Universal Isolated Analog Output Card



CE

Features

- Four 12-bit D/A output channels
- Multiple output ranges
- 2,500 V_{DC} isolation between the outputs and the PCI bus
- Keeps the output settings and values after system reset
- One DB37 connector for easy wiring
- Universal PCI and BoardID switch (PCI-1720U only)

Introduction

The PCI-1720 provides four 12-bit isolated digital-to-analog outputs for the PCI bus. With isolation protection of 2500 V_{DC} between the outputs and the PCI bus, the PCI-1720 is ideal for industrial applications where high-voltage protection is required.

Keeping the Output Settings and Values after System Reset

Users can independently set the four outputs to different ranges: 0 to +5 V, 0 to +10 V, ±5 V, ±10 V, 0 to 20 mA (sink) or 4 to 20 mA (sink). When the system is hot reset, (power is not shut off), the PCI-1720 can either retain the last analog output settings and values, or return to its default configuration, depending on jumper setting. This practical function eliminates danger caused by misoperation during an unexpected system reset.

PCI-Bus Plug & Play

The PCI-1720 uses a PCI controller to interface the card to the PCI bus. The controller fully implements the PCI bus specification Rev 2.1. All bus relative configurations, such as base address and interrupt assignment, are automatically controlled by software.

Specifications

Channels	4 isolated D/A channels
Resolution	12 bits
Output Range	Unipolar: 0 ~ +5 V, 0 ~ +10 V Bipolar: ±5 V, ±10 V Current loop (sink): 0~ 20 mA, 4 ~ 20 mA
Throughput	15 kHz min. @ full-scale output range
Accuracy	±0.024%
Isolation Voltage	2,500 V_{DC} between the outputs and the PCI bus
Temperature Drift	Typical: 10 PPM/° C (0 ~ 60° C) (32 ~ 140° F) Maximum: 20 PPM/° C (0 ~ 60° C) (32 ~ 140° F)
Output Drive	±5 mA max.
Current Loop Excitation Voltage	50 V (max.)
On-board 12 VDC Excitation Voltage	80 mA (max.)
Power Consumption	+5 V @ 350 mA (typical), 500 mA (max.) +12 V @ 200 mA (typical), 350 mA (max.)
Operating Temperature	0 ~ 60° C (32 ~ 140° F) (refer to IEC 68-2-1, 2)
Storage Temperature	-20 ~ +70° C (-4 ~ 158° F)
Operating Humidity	5 ~ 95% RH non-condensing (refer to IEC 68-2-3)
Connector	DB-37 connector
Dimensions (L x H)	175 x 100 mm (6.9" x 3.9")

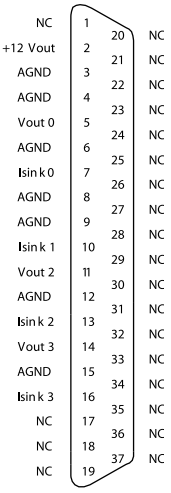
Ordering Information

PCI-1720	4-channel Isolated Output Card, user's manual and driver CD-ROM. (cable not included)
PCL-10137-1	DB37 cable assembly, 1m
PCL-10137-2	DB37 cable assembly, 2m
PCL-10137-3	DB37 cable assembly, 3m
PCI-1720U	4-channel Isolated Output Card, user's manual and driver CD-ROM. (cable not included)
ADAM-3937	DB37 Wiring terminal for DIN-rail mounting
PCLD-880	Screw terminal board

Applications

- Process control
- Programmable voltage source
- Programmable current sink
- Servo control

Pin Assignments



All product specifications are subject to change without notice

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