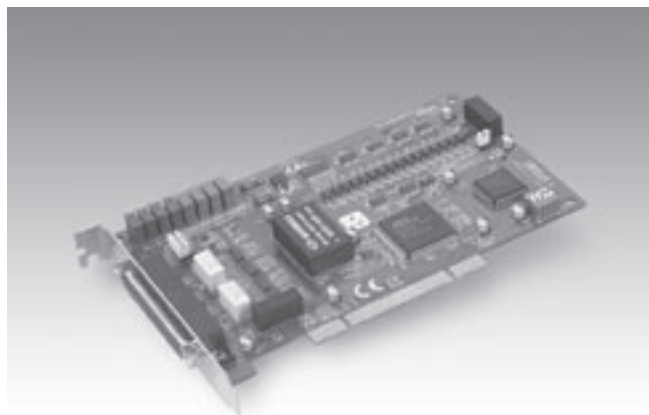# PCI-1720U

4-ch Universal Isolated Analog Output Card

Features

- 4 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

Introduction

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

Specifications

Analog Output

- **Channels**   4 isolated channels
- **Resolution**   12 bits
- **Output Rate**   Static update
- **Output Range**   **(Software programmable)**

Internal Reference	Unipolar (V)	0 ~ 5, 0 ~ 10
	Bipolar (V)	±5, ±10
	Current Loop (mA)	0~ 20, 4 ~ 20

- **Slew Rate**   2 V/μs
- **Isolation Protection**   2,500 V_{DC} (between the outputs and the PCI bus)
- **Driving Capability**   ±5 mA max.
- **Operation Modes**   Software polling
- **Accuracy**   ±0.024%
- **Current Loop Excitation**
- **Voltage**   50 V (max.)

General

- **Bus Type**   PCI-1720: PCI V2.2
                             PCI-1720U: Universal PCI 2.2
- **I/O Connectors**   1 x DB37-F
- **Dimensions (L x H)**   175 x 100 mm (6.9" x 3.9")
- **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)
- **Storing Temperature**   –20 ~ +70° C (-4 ~ 158° F)
- **Storing Humidity**   5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)
- **Certifications**   CE

Ordering Information

- **PCI-1720U**   4-ch, 12-bit isolated Universal PCI analog output card
- **PCL-10137-1**   DB37 cable assembly, 1 m
- **PCL-10137-2**   DB37 cable assembly, 2 m
- **PCL-10137-3**   DB37 cable assembly, 3 m
- **ADAM-3937**   DB37 Wiring terminal for DIN-rail mounting
- **PCLD-880**   Screw terminal board

Pin Assignments

Pin	Signal	Pin	Signal
1	NC	20	NC
2	+12 Vout	21	NC
3	AGND	22	NC
4	AGND	23	NC
5	Vout 0	24	NC
6	AGND	25	NC
7	Isink 0	26	NC
8	Vout 1	27	NC
9	AGND	28	NC
10	Isink 1	29	NC
11	Vout 2	30	NC
12	AGND	31	NC
13	Isink 2	32	NC
14	Vout 3	33	NC
15	AGND	34	NC
16	Isink 3	35	NC
17	NC	36	NC
18	NC	37	NC
19	NC		