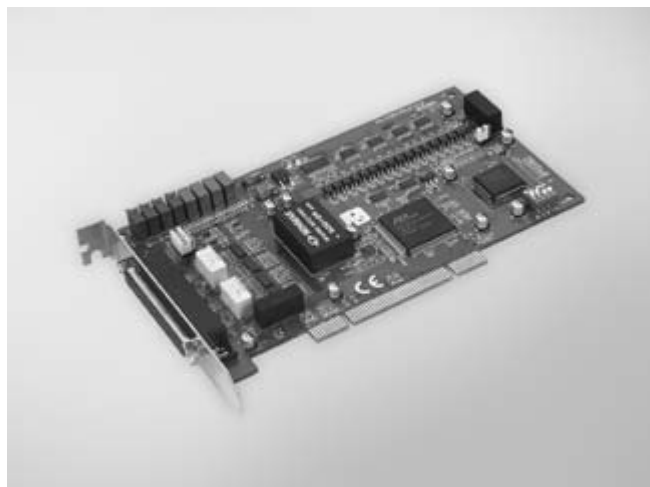


# PCI-1720U

## 12-bit, 4-ch Isolated Analog Output Universal PCI Card



### Features

- 4 x 12-bit D/A output channels
- Multiple output ranges
- 2,500 V<sub>DC</sub> 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<sub>DC</sub> 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
- **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<sub>DC</sub>
- **Driving Capability** 5 mA
- **Operation Modes** Software polling
- **Accuracy** ±0.024%
- **Excitation Voltage** 50 V (max.)

#### General

- **Bus Type** Universal PCI V2.2
- **I/O Connectors** 1 x DB37 female connector
- **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)
- **Storage Temperature** -20 ~ 70° C (-4 ~ 158° F)
- **Storage Humidity** 5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)
- **Certifications** CE

### Ordering Information

- **PCI-1720U** 12-bit, 4-ch Isolated AO Universal PCI Card
- **PCL-10137-1** DB37 Cable, 1 m
- **PCL-10137-2** DB37 Cable, 2 m
- **PCL-10137-3** DB37 Cable, 3 m
- **ADAM-3937** DB37 DIN-rail Wiring Board
- **PCLD-880** Wiring Board w/ Two 20-pin Flat Cables & Adapter

### Pin Assignments

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