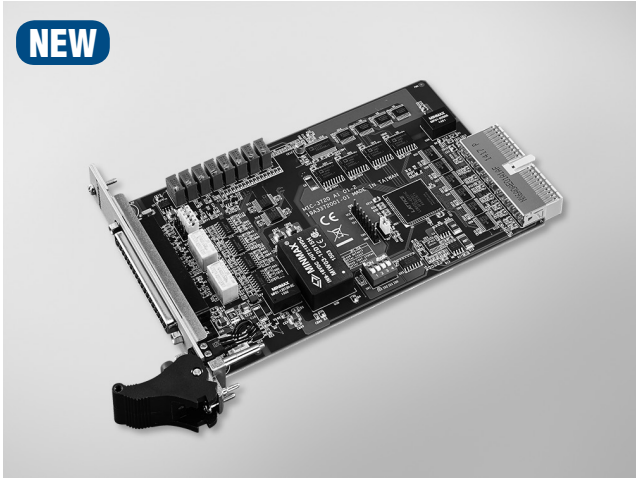


MIC-3720

12-bit, 4-ch Isolated Analog Output Universal CompactPCI Card

NEW



Features

- Four 12-bit D/A output channels
- Multiple output ranges
- 2,500 V_{DC} isolation between the outputs and the CompactPCI bus
- Keeps the output settings and values after system reset
- One 37-pin D-type connector for easy wiring
- BoardID switch
- Compact PCI Bus

Introduction

MIC-3720 is an isolated digital-to-analog output card for the CompactPCI bus. It provides four 12-bit analog output channels with isolation protection of 2,500 V DC between the outputs and the CompactPCI bus. This 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**

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

- **Slew Rate** 2.5 V/μs @ ±10 V
1.5 V/μs @ ±5 V, 0 ~ 10 V
0.7 V/μs @ 0 ~ 5 V
- **Isolation Protection** 2,500 VDC
- **Driving Capability** 5 mA
- **Operation Modes** Software polling
- **Accuracy** Relative: ±1 LSB; Differential
Non-Linearity: ±1 LSB (monotonic)

General

- **Bus Type** CompactPCI
- **I/O Connectors** 1 x DB37 female connector
- **Dimensions (L x H)** 175 mm 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)
- **Storage Temperature** -20 ~ 70°C (-4 ~ 158°F)
- **Storage Humidity** 5 ~ 95% RH, non-condensing

Ordering Information

- **MIC-3720-AE** 12-bit, 4-ch Isolated AO Universal CompactPCI Card

Accessories

- **PCL-10137-1E** DB37 Cable, 1 m
- **PCL-10137-2E** DB37 Cable, 2 m
- **PCL-10137-3E** DB37 Cable, 3 m
- **ADAM-3937-AE** DB37 DIN-rail Wiring Board

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
Isink 0	7	26	NC
Vout 1	8	27	NC
AGND	9	28	NC
Isink 1	10	29	NC
Vout 2	11	30	NC
AGND	12	31	NC
Isink 2	13	32	NC
Vout 3	14	33	NC
AGND	15	34	NC
Isink 3	16	35	NC
NC	17	36	NC
NC	18	37	NC
NC	19		