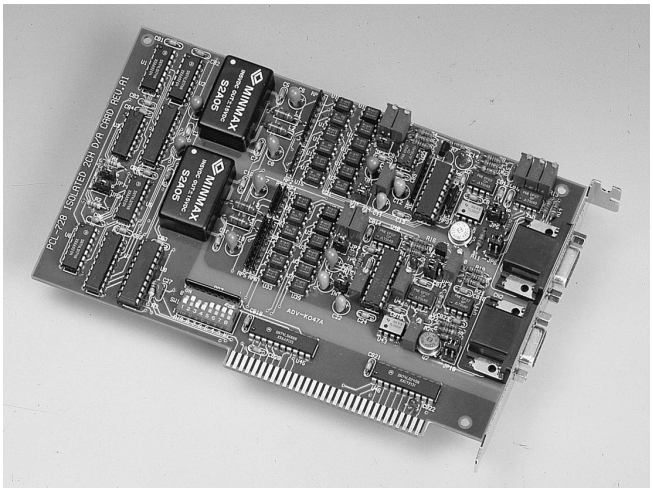
PCL-728

Isolated 2-ch Analog Output Card



Features

- 2 independent, double-buffered 12-bit analog output channels
- Multiple output ranges: 0 ~ +5 V (unipolar)
  0 ~ +10 V (unipolar)
  ±5 V (bipolar)
  ±10 V (bipolar)
  4 ~ 20 mA (sink)
  0 ~ 20 mA (sink)
- Over 500 V_{DC} isolation between input and output
- 2 DB-9 connectors for easy wiring

Introduction

The PCL-728 provides two double-buffered 12-bit digital-to-analog outputs. Optical isolators give 500 volts of isolation (channel-to-channel and input-to-output) to protect the card and your PC from dangerous voltage on the output lines. You can output in several ranges: 0 to +5 V, 0 to +10 V, ±5 V, ±10 V, 0 to 20 mA (sink) or 4 to 20 mA (sink).

The PCL-728's register format and software driver are fully compatible with the PCL-726 6-channel D/A card. This makes it easy for you to replace the PCL-726 with the PCL-728 to gain immediate isolation protection.

Specifications

- **Channels** 2 isolated D/A output channels
- **Resolution** 12 bits, double buffered
- **Output Range** Unipolar: 0 ~ +5 V, 0 ~ +10 V
  Bipolar: ±5 V, ±10 V
  Current loop (sink): 0~ 20 mA, 4 ~ 20 mA
- **Throughput** 17 KHz
- **Settling Time** ≤ 60 µsec.
- **Accuracy** ±0.012% full scale range
- **Isolation Voltage** > 500 V_{DC} channel-to-channel and input-to-output
- **Temperature Drift** 5 PPM/° C (0° ~ 50° C)
- **Reference Voltage** Internal: -5 V or -10 V
  External: ±10 V (max.), AC or DC
- **Output Current** ±5 mA max.
- **Current Loop Excitation Voltage**
  8 ~ 36 V

General

- **Power Consumption** +5 V @ 800 mA max.
- **Operating Temperature** 0° ~ 50° C (32° ~ 122° F)
- **Storage Temperature** 0° ~ 65° C (32° ~ 149° F)
- **Operating Humidity** 5% ~ 95% RH non-condensing (refer to IEC 68-2-3)
- **Connectors** two DB-9 connectors
- **Dimensions** 184 mm (L) x 119 mm (H) (7.25" x 4.7")

Ordering Information

- **PCL-728** Isolated 2-channel D/A output card, user's manual and driver CD-ROM (cable not included)
- **ADAM-3909** DB-9 wiring terminal for DIN rail mountingApplications

Applications

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

Pin Assignment