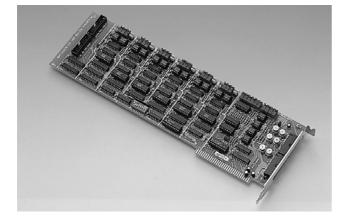


6-ch D/A Output Card



Introduction

The PCL-726 provides six 12-bit D/A channels on a full-size add-on card. You can individually configure each channel to any of the following ranges: 0 to +5 V, 0 to +10 V, \pm 5 V, \pm 10 V and 4 to 20 mA current loop (sink). Designed for use in industrial environments, the PCL-726 is an ideal, economical solution for applications that require multiple analog outputs or current loops.

In addition to its analog outputs, the PCL-726 also provides 16 digital output channels plus 16 digital input channels. Its TTL-compatible D/I and D/O ports easily interface with our line of daughterboards for industrial On/Off control and sensing applications.

Applications

- PID loop control
- Programmable voltage source
- Servo control
- · Programmable current sink
- · Function generator

Specifications

Analog Output (D/A Converter)

- Channels: 6
- Resolution: 12 bits, double buffered
- Output Ranges:
 - Unipolar: 0 ~ +5 V, 0 ~ +10 V Bipolar: ±5 V, ±10 V Current loop (sink): 4 ~ 20 mA, ±10 V with external DC or AC reference
- Throughput: 15 KHz
- Settling Time: \leq 70 µsec.
- Accuracy: ±0.012% full scale range
- Temperature Drift: 5 PPM/° C (0° ~ 50° C)
- Linearity: ±1/2 bit
- Voltage Output Current: ±5 mA max.
- Current Loop Excitation Voltage: minimum +8 V, maximum +36 V for 4 ~ 20 mA current loop
- Reset (Power-on) Status: all D/A channels will be at 0 V output after reset or power-on (both bipolar and unipolar modes)

Features

- 6 independent D/A output channels
- 12-bit resolution double-buffered D/A converter
- Multiple voltage ranges: ±10 V, ±5 V, 0 ~ +5 V, 0 ~ +10 V and 4 ~ 20 mA current loop (sink)
- 16 digital input channels and 16 digital output channels

Digital Input

- Channels: 16-ch TTL compatible DI
- Logic Level 0: 0.8 V max.
- Logic Level 1: 2.0 V min.
- Input Loading: 0.5 V @ 0.4 mA max. (low) 2.7 V @ 50 mA max. (high)

Digital Output

- Channels: 16-ch TTL compatible DO
- Logic Level 0: 0.5 V @ 8.0 mA (sink)
- Logic Level 1: 2.4 V @ 0.05 mA (source)

General

- Power Consumption: +5 V @ 500 mA typical, 1 A max.
 - +12 V @ 80 mA typical, 110 mA max. -12 V @ 60 mA typical, 90 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: one 37-pin D type female connector two 20-pin male ribbon cable connectors
- Dimensions: 340 mm (L) x 100 mm (H) (13.4" x 3.9")

Ordering Information

- PCL-726: 6-channel D/A output and DIO card, user's manual and driver CD-ROM (cable not included)
- D PCL-10120-1: 20-pin flat cable, 1 m
- D PCL-10120-2: 20-pin flat cable, 2 m
- **PCLD-780:** Screw terminal board
- D PCLD-782: Opto-Isolated D/I board (16-ch)
- D PCLD-785: Relay output board (16-ch)
- □ ADAM-3920: 20-pin wiring terminal for DIN-rail mounting
- IPPC & UNO-ADAM-4000

Ente