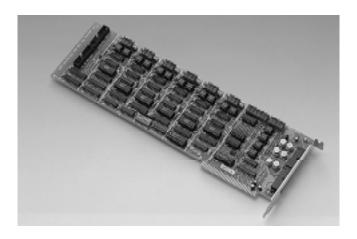
PCL-726

6-channel D/A Output Card



Features

- · Six independent D/A output channels
- · 12-bit resolution double-buffered D/A converter
- Multiple voltage ranges: ± 10 V, ± 5 V, 0 ~ ± 5
- · 16 digital input channels and 16 digital output channels

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, ±5 V, ±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.

PCL-726 comes with a utility program disk which contains a ready-to-run calibration program and programming examples.

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 \sim 20 mA, ± 10 V with external DC or

AC reference

• Throughput: 15 kHz

• Settling time: ≤ 70 msec.

• 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)

Digital Input

· Channels: 16

Levels: TTL compatible
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

· Levels: TTL compatible

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 utility software diskette

PCL-10120-1: 20-pin flat cable, 1 m **PCL-10120-2**: 20-pin flat cable, 2 m

PCLS-OCX: ActiveX Control for data acquisition and control

PCLD-780: Screw terminal board