PCL-726

6-ch Analog Output Card



Features

- 6 independent analog 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

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.

Specifications

Analog Output (D/A Converter)

- Channels
- 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

±0.012% full scale range

6

15 KHz

±½ bit

- Throughput
- Settling Time \leq 70 µsec.
- Accuracy
- Temperature Drift: 5 PPM/° C (0° ~ 50° C)
- Linearity
- 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-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) @ 50 mA max. (high)

				2.7	V
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Digital Output

•	Channel	16-ch TTL compatible DO
•	Logic Level O	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) 5% ~ 95% RH non-condensing (refer to IEC 68-2-3)
- **Operating Humidity**
- Connectors
- two 20-pin male ribbon cable connectors Dimensions
 - 340 mm (L) x 100 mm (H) (13.4" x 3.9")

one 37-pin D type female connector

Ordering Information

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

Applications PID loop control

- Programmable voltage source
- Servo control
- Programmable current sink
- Function generator