

Платы аналогового вывода серии PCL-726

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

По вопросам продаж и поддержки обращайтесь:

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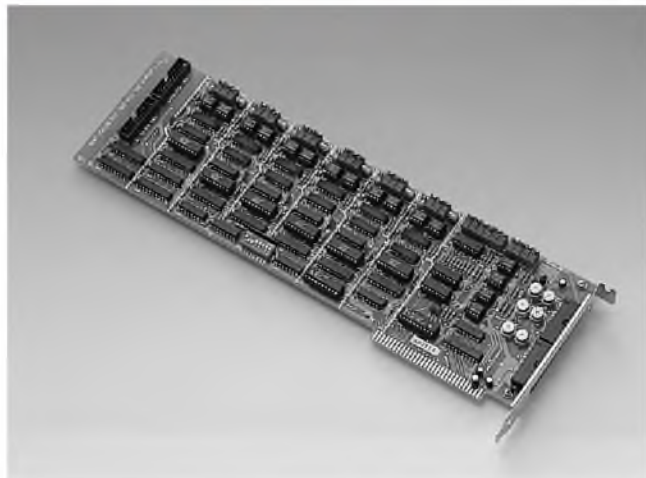
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PCL-726

6-ch Analog Output Card



CE

Features

- 6 independent analog output channels
- 12-bit resolution double-buffered D/A converter
- Multiple voltage ranges: ± 10 V, ± 5 V, $0 \sim +5$ V, $0 \sim +10$ V and $4 \sim 20$ 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: $0 \sim +5$ V, $0 \sim +10$ V, ± 5 V, ± 10 V and $4 \sim 20$ 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** 6
- **Resolution** 12 bits, double buffered
- **Output Ranges** Unipolar: $0 \sim +5$ V, $0 \sim +10$ 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 μ sec.
- **Accuracy** $\pm 0.012\%$ full scale range
- **Temperature Drift:** 5 PPM/ $^{\circ}$ C ($0^{\circ} \sim 50^{\circ}$ C)
- **Linearity** $\pm 1/2$ bit
- **Voltage Output Current** ± 5 mA max.
- **Current Loop Excitation Voltage** minimum $+8$ V, maximum $+36$ V for $4 \sim 20$ 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)
 2.7 V @ 50 mA max. (high)

Digital Output

- **Channel** 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** $0^{\circ} \sim 50^{\circ}$ C ($32^{\circ} \sim 122^{\circ}$ F)
- **Storage Temperature** $0^{\circ} \sim 65^{\circ}$ C ($32^{\circ} \sim 149^{\circ}$ F)
- **Operating Humidity** $5\% \sim 95\%$ 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)
- **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

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

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