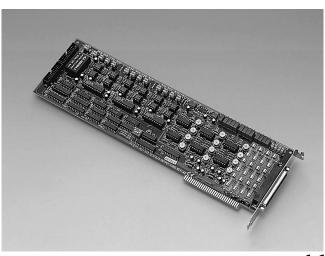
PCL-727

12-ch Analog Output Card



Features

- 12 independent analog output channels
- 12-bit resolution double-buffered D/A converter
- ± 5 V, 0 ~ +5 V, 0 ~ +10 V and Multiple output ranges: 4 ~ 20 mA current loop (sink)
- 16 digital input and 16 digital output channels
- Easily replaceable fuse on each analog output channel for surge protection
- Female DB-37 connector

 $C \in$

Introduction

The PCL-727 provides twelve 12-bit D/A channels on a full-size add-on card. You can configure each channel individually to any of the following ranges: 0 to +5 V, 0 to +10 V, ±5 V or 4 to 20 mA current loop (sink). The card's on-board DC/DC converter ensures that full 10 V D/A output is always available.

ideal, economical solution for applications which require multiple PID control loops.

of daughterboards for industrial On/Off control and sensing applications.

Specifications

Analog Output (D/A Converter)

Channels

 Resolution 12 bits, double buffered Unipolar: 0 ~ +5 V, 0 ~ +10 V Output Ranges

Bipolar: ±5 V

Current loop (sink): 4 ~ 20 mA

- Thoughput 15 KHz Settling Time \leq 70 µsec.

Accuracy ±0.012% full scale range Offset Error 0 ~ 5 V: ±1 LSB ±5 V, 0 ~ 10 V: ±2 LSB Temperature Drift 5 PPM/° C (0° ~ 50° C)

 Fuse on Each Channel 0.1 A Output Current ±5 mA max. Current Loop Excitation Voltage

minimum +8 V, maximum +36 V for 4 ~ 20 mA current

• Reset (Power-on) Statusall 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

Channels 16-ch TTL compatible DO Logic Level 0 0.5 V @ 8.0 mA (sink) Logic Level 1 2.4 V @ 0.4 mA (source)

General

 Power Consumption +5 V @ 250 mA typical, 500 mA max. +12 V @ 150 mA typical, 300 mA max. -12 V @ 100 mA typical, 130 mA max.

• Operating Temperature $0^{\circ} \sim 50^{\circ} \text{ C} (32^{\circ} \sim 122^{\circ} \text{ F})$ 0° ~ 65° C (32° ~ 149° F) Storage Temperature

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-727 12-ch. analog output and DIO card, user's manual and

driver CD-ROM (cable not included)

PCLS-OCX ActiveX control for data acquisition and control

PCL-10120-1 20-pin flat cable, 1 m PCL-10120-2 20-pin flat cable, 2 m PCL-10137-1 DB-37 cable assembly, 1 m PCL-10137-2 DB-37 cable assembly, 2 m PCL-10137-3 DB-37 cable assembly, 3 m PCLD-780 Screw terminal board

ADAM-3937 DB-37 wiring terminal for DIN-rail mounting

Universal screw terminal board PCLD-880 PCLD-782 Opto-isolated D/I board (16 ch.) PCLD-785 Relay output board (16 ch.)

Applications

- Multiple loop PID control
- Process control
- Programmable voltage source
- Servo control

ADVANTECH