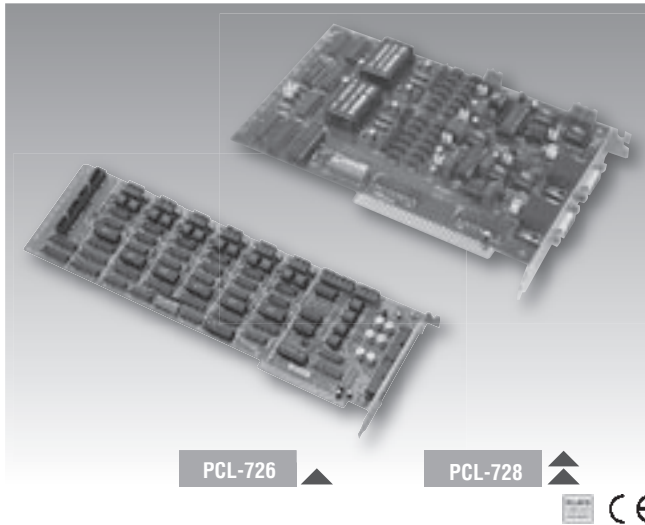


PCL-726

PCL-728

6-ch Analog Output Card with Digital I/O

2-ch Isolated Analog Output Card



Features

- 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 and 16 digital output channels (PCL-726)
- Two DB9 connectors for easy wiring (PCL-728)

Introduction

PCL-726, and PCL-728 are analog output cards with 12-bit analog output channels. 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, these cards are ideal, economical solutions for applications that require multiple analog outputs or current loops.

Specifications

Analog Output

- **Channels** 6
- **Resolution** 12 bits, double buffered
- **Output Rate** Static update
- **Reference Clock** Internal:
External Clock Frequency:
External Voltage Range:
- **Output Range** (Software programmable)

Internal Reference	Bipolar (V)	± 5 , ± 10
	Unipolar (V)	$0 \sim 5$, $0 \sim 10$
	Current Loop (mA)	$4 \sim 20$

- **Slew Rate** 0.3 V/ μ s
- **Driving Capability** ± 5 mA max.
- **Output Impedance** 0.1Ω
- **Operation Modes** Software polling
- **Accuracy** Relative: $\pm 0.012\%$ full scale range
Differential Linearity: $\pm 1/2$ bit
- **Current Loop Excitation Voltage** Minimum $+8$ V, maximum $+36$ V for $4 \sim 20$ Voltage mA current loop

Digital Input (PCL-726)

- **Channels** 16
- **Compatibility** 5 V/TTL
- **Input Voltage** Logic 0: 0.8 V max.
Logic 1: 2.0 V min.

Digital Output (PCL-726)

- **Channels** 16
- **Compatibility** 5 V/TTL
- **Output Voltage** Logic 0: 0.5 V, Logic 1: 2.4 V
- **Output Capability** Sink: 0.5 V @ 0.4 mA max.
Source: 2.7 V @ 50 mA max.

General

- **Bus Type** ISA
- **I/O Connectors** 4 x 20-pin male ribbon cable connectors
PCL-728: 2 x DB9 connectors
- **Dimensions (L x H)** PCL-726: 340×100 mm ($13.4" \times 3.9"$)
PCL-728: 184×119 mm ($7.25" \times 4.7"$)
- **Power Consumption**
PCL-726: $+5$ V @ 500 mA typical, 1 A max.
 $+12$ V @ 80 mA typical, 110 mA max.
 -12 V @ 60 mA typical, 90 mA max.
 $+5$ V @ 800 mA max.
PCL-728: $0 \sim 50^\circ$ C ($32 \sim 122^\circ$ F)
- **Operating Temperature** $0 \sim 50^\circ$ C ($32 \sim 122^\circ$ F)
- **Storing Temperature** $0 \sim 65^\circ$ C ($32 \sim 149^\circ$ F)
- **Operating Humidity** $5 \sim 95\%$ RH, non-condensing (refer to IEC 68-2-3)

Ordering Information

- **PCL-726** 6-ch analog output card with digital I/O, user manual and driver CD-ROM (cable not included)
- **PCL-728** Isolated 2-ch analog output card, user 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)
- **PCLD-880** Universal screw terminal board
- **ADAM-3909** DB9 wiring terminal for DIN-rail mounting
- **ADAM-3920** 20-pin wiring terminal for DIN-rail mounting