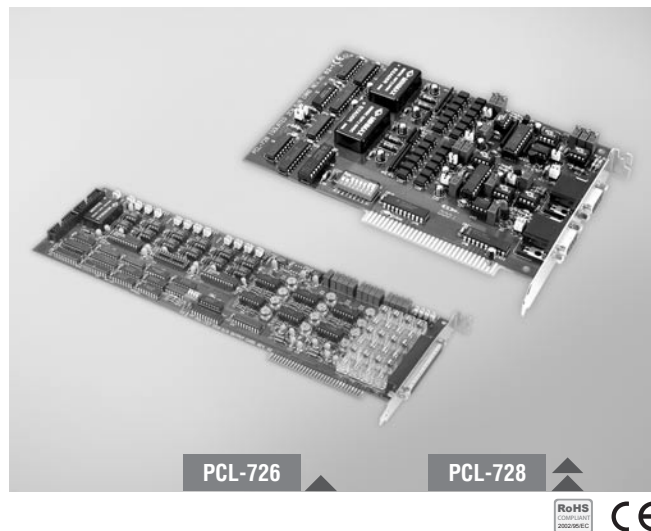


PCL-726

PCL-728

**12-bit, 6-ch Analog Output ISA Card
with 32-ch Digital I/O**

**12-bit, 2-ch Isolated Analog Output
ISA 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** PCL-726: 6
PCL-728: 2 isolated
- **Resolution** 12 bits, double buffered
- **Output Rate** Static update
- **Reference Voltage** Internal: -5 V (± 0.05 V)
 -10 V (± 0.05 V)
External: DC or AC, ± 10 V max.
(Software programmable)
- **Output Range**

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

- **Isolation Protection** $500 V_{DC}$ (PCL-728)
- **Driving Capability** 5 mA
- **Output Impedance** 0.1Ω
- **Operation Modes** Software polling
- **Accuracy** 0.012%
- **Excitation Voltage** $8 \sim 36$ V for $4 \sim 20$ 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** PCL-726: 4×20 -pin box header
PCL-728: $2 \times$ DB9 female connector
- **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.
PCL-728: $+5$ V @ 800 mA max.
- **Operating Temperature** $0 \sim 50^\circ\text{C}$ ($32 \sim 122^\circ\text{F}$)
- **Storage Temperature** $0 \sim 65^\circ\text{C}$ ($32 \sim 149^\circ\text{F}$)
- **Operating Humidity** $5 \sim 95\%$ RH, non-condensing (refer to IEC 68-2-3)

Ordering Information

- **PCL-726** 12-bit, 6-ch AO ISA Card w/ Digital I/O
- **PCL-728** 12-bit, 2-ch Isolated AO ISA Card
- **PCL-10120-1** 20-pin Flat Cable, 1 m
- **PCL-10120-2** 20-pin Flat Cable, 2 m
- **PCLD-780** Screw Terminal Board w/ Two 20-pin Flat Cables
- **PCLD-782** 16-ch Isolated DI Board w/ 1m 20-pin Flat Cable
- **PCLD-785** 16-ch Relay Board w/ One 1m 20-pin Flat Cable
- **PCLD-880** Wiring Board w/ Two 20-pin Flat Cables & Adapter
- **ADAM-3909** DB9 DIN-rail Wiring Board
- **ADAM-3920** 20-pin DIN-rail Flat Cable Wiring Board