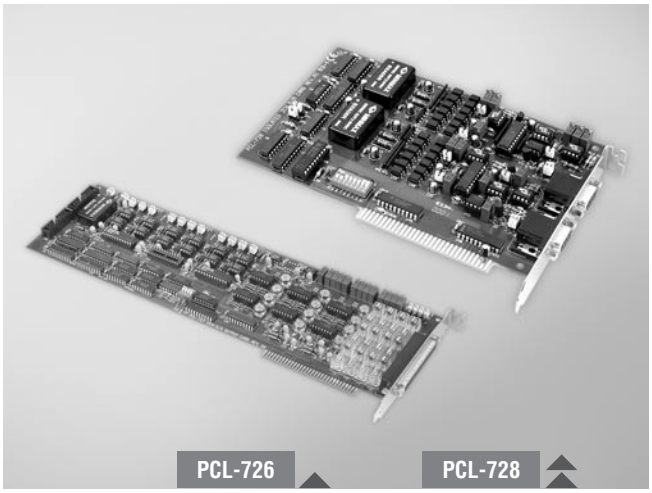
PCL-726
PCL-728

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 ~ +5 V, 0 ~ +10 V and 4 ~ 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, ±10V max.
- **Output Range** (Software programmable)

Internal Reference	**Bipolar (V)**	±5
	Unipolar (V)	0 ~ 5, 0 ~10
	Current Loop (mA)	4 ~ 20
External Reference	**Bipolar (V)**	±10

- **Isolation Protection** 500 V_{DC} (PCL-728)
- **Driving Capability** 5 mA
- **Output Impedance** 0.1 Ω
- **Operation Modes** Software polling
- **Accuracy** 0.012%
- **Excitation Voltage** 8 ~ 36 V for 4 ~ 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 x 20-pin box header
PCL-728: 2 x DB9 female connector
- **Dimensions (L x H)** PCL-726: 340 x 100 mm (13.4" x 3.9")
PCL-728: 184 x 119 mm (7.25" x 4.7")
- **Power Consumption**
PCI-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: +5V @ 800 mA max.
- **Operating Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** 0 ~ 65° C (32 ~ 149° F)
- **Operating Humidity** 5 ~ 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