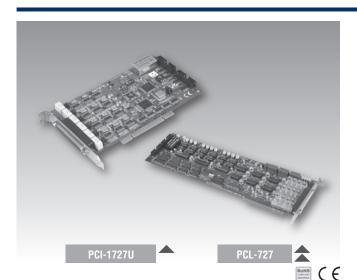
PCI-1727U **PCL-727**

14-bit, 12-ch Analog Output Universal PCI Card with 32-ch DI/O

12-bit, 12-ch Analog Output ISA Card with 32-ch DI/0



Features

- 12 independent analog output channels
- Fuse on each channel
- Universal PCI for 5 V and 3.3 V support
- BoardID™ switch
- Synchronized output function

Introduction

PCI-1727U provides twelve 14-bit analog output channels, and is pin-compatible with the ISA PCL-727 card for easy migration. It supports both +/-10 V and 0 ~ 20 mA current loop (sink). The card's on board DC-to-DC converter ensures the full 10 V D/A output is always available.

Each analog output channel has a built-in fuse to protect the circuit, PC and the external devices. PCI-1727U is an ideal, economical solution for the applications which require multiple PID control loops. In addition to its analog outputs, PCI-1727U provides 16 TTL DI and 16 TTL DO channels that are easily applied with industrial on/off control applications.

Specifications

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Channels PCI-1727U: 12 PCL-727: 12 Resolution PCI-1727U: 14 bits PCL-727: 12 bits

 Output Rate Static output

 Output Range (Software programmable)

Internal Reference	Bipolar (V)	±10
	Current Loop (mA)	0 ~ 20

Slew Rate 0.7 V/µs Driving Capability 15 mA

 Operation Modes Software polling, synchronized output

 Current Loop 8 ~ 36 V

Excitation Voltage

Digital Input

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

 Input loading 0.5 V @ 0.4 mA max. (low) 2.7 V @ 50 µA max (high)

Digital Output

Channels 16 Compatibility 5 V/TTL

Logic 0: 0.5 V, Logic 1: 2.4 V Output Voltage Output Capability Sink: 0.8 mA @ 0.5 V

Source: 0.4 mA @ 2.4 V

General

Dimensions

PCI-1727U: Universal PCI V2.2 Bus Type

PCL-727: ISA

I/O Connectors 1 x 37-pin D-type female

2 x 20-pin male ribbon cable connectors

Power Consumption PCI-1727U

> +5 V @ 460 mA typical, 500 mA max +12 V @ 150 mA typical,100 mA max

PCI -727

+5 V @ 500 mA typical, 1A max +12 V @50 mA typical, 110 mA max -12 V @ 14 mA typical, 90 mA max PCI-1720U: 175 × 100 mm (6.9" ×3.9")

PCL-727: 340 x 100 mm (13.4" x 3.9")

• Operating Temperature $0 \sim 50^{\circ} \text{ C} (32 \sim 122^{\circ} \text{ F})$

Storing Temperature PCI-1727U: -20 ~ 65° C (-4 ~ 149° F)

PCL-727: 0 ~ 65° C (32 ~ 149° F)

 Storing Humidity 5 ~ 95% RH, non-condensing

Ordering Information

 PCI-1727U 14-bit, 12-ch Universal Analog Output Card

12-bit, 12-ch Analog Output ISA Card with Digital I/O PCL-727

PCL-10120-1 20-pin flat cable, 1 m PCL-10137-1 DB37 cable assembly, 1 m

 ADAM-3937 DB37 wiring terminal for DIN-rail mounting

PCLD-780 Two 20-pin screw terminal board PCLD-782 Opto-isolated D/I board PCLD-785 Relay output board