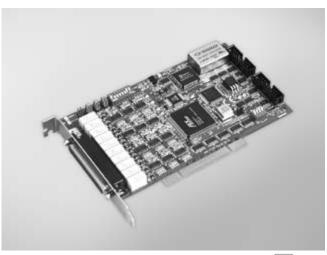
PCI-1727U

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



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 onboard 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 digital input and 16 TTL digital output channels that are easily applied with industrial on/off control applications.

Specifications

Analog Output

Channels 12
Resolution 14 bits
Output Rate Static update

Output Range (Software programmable)

Bipolar (V)	±5
Unipolar (V)	0 ~ 5, 0 ~10
Current Loop (mA)	4 ~ 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 16Compatibility 5 V/TTL

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

Source: 0.4 mA @ 2.4 V

General

Bus Type Universal PCI V2.2

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

2 x 20-pin box header

■ **Power Consumption** 5 V @ 460 mA typical, 500 mA max

12 V @ 150 mA typical,100 mA max

Dimensions (L x H) 175 × 100 mm (6.9" ×3.9")
 Operating Temperature 0 ~ 50° C (32 ~ 122° F)

■ Storing Temperature -20 ~ 65° C (-4 ~ 149° F)

• **Storing Humidity** 5 ~ 95% RH, non-condensing

Ordering Information

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

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-782 Opto-isolated D/l boardPCLD-785 Relay output board