PCI-1243U

4-axis Low Cost Stepping Motor Control Card



Features

- 4 axis stepping motor control
- PCI universal bus
- Up to 400 k pulse output rate
- T-curve acc/dec
- Pulse/Dir and CW/CCW pulse output mode
- Up 24-bit step count
- Opto-Isolated Digital input and output
- Up to 1,500 Vrms system isolation
- BoardID™ switch

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Introduction

PCI-1243U is a 4-axis intelligent stepping motor control card with universal PCI interface. The card's PCD-4541 motion controller can execute a variety of motion-control commands. For advanced applications, we supply a DLL so that programs can be created for the Microsoft® Windows® environment.

PCI-1243U is a cost-effective solution for PCI based motion control. Each axis can be controlled directly through the card's I/O registers. However, use of the card's high-level DLL driver is recommended. With the DLL driver, you can easily link to VC++®, Visual Basic® or BCB.

Specifications

Pulse Type Motion Control

 Motor Driver Support Number of Axes Max. Output Speed 400 kpps Step Count Range 0 ~ 16,777,215

Pulse Output Type Pulse/Direction, CW/CCW

- Position Counters ±16,777,215

Home Modes

Velocity Profiles T or S-curve acceleration/deceleration

Local I/O

PEL x 4, NEL x 4, ORG x 4, SLD x 4, EMG x 1 Machine Interfaces:

General Inputs: General Outputs: 8

Isolated Digital Input

Channels

 Input Voltage Logic 0: 1 V

Logic 1: 12 V (24 V max.)

 Isolation Protection $3,750 \, V_{RMS}$ • Opto-Isolator Response 25 ms Input Resistance $4.7 \, k\Omega$

Isolated Digital Output

Channels

 Output Type Sink (NPN) Isolation Protection $3,750 V_{RMS}$ 5~30 V_{DC} Output Voltage

Sink Current 200 mA max. / channel; 1.1 A max. total

• Opto-Isolator Response 25 ms

General

Bus Type **PCI V2.2** Certifications CF

Connectors 1 x DB-62 female **Dimensions** 175 x 100 mm (6.9" x 3.9") **Power Consumption** Typical: 5 V @ 340 mA Max: 5 V @ 500 mA mA

- Storing Humidity 5 ~ 95% RH, non-condensing (IEC 68-2-3)

• Operating Temperature $0 \sim 60^{\circ} \text{ C} (32 \sim 140^{\circ} \text{ F})$ -20 ~ 80° C (-4 ~ 170° F) Storing Temperature

Ordering Information

PCI-1243U 4-Axis Stepping Motor Control card

PCL-10162-1 DB-62 Cable Assembly, 1M PCL-10162-3 DB-62 Cable Assembly, 3M

ADAM-3962 DB-62 wiring terminal with DIN-rail mounting

All product specifications are subject to change without notice