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 acceleration/deceleration
- 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 .

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	Stepping
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- Number of Axes
- Max. Output Speed 400 kpps

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- Step Count Range
- Pulse Output Type
- Position Counters

Home Modes

General Inputs:

- Velocity Profiles
- Local I/O

PEL x 4, NEL x 4, ORG x 4, SLD x 4, EMG x 1

Isolated Digital Input

- Channels
- Logic 0: 1 V Input Voltage Logic 1: 12 V (24 V max.)
- Isolation Protection
- $3,750 V_{\text{RMS}}$ Opto-Isolator Response 25µs
- Input Resistance 4.7 kΩ
- **Isolated Digital Output**

- Channels

- Output Type Sink (NPN) 3,750 V_{RMS}
- Isolation Protection 5 ~ 30 V_{DC}
- Output Voltage
- Sink Current 200 mA max./channel; 1.1 A max. total
- Opto-Isolator Response 25µs

General

- Bus Type Certifications
- PCI V2.2 CF
- 1 x DB-62 female
- Connectors 175 x 100 mm (6.9" x 3.9")
- Dimensions 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 ~ 60° C (32 ~ 140° F)
- Storing Temperature -20 ~ 80° C (-4 ~ 170° F)

Ordering Information

- PCI-1243U
- PCL-10162-1
- 4-axis Stepping Motor Control card DB-62 Cable Assembly, 1 M
- PCL-10162-3
 - DB-62 Cable Assembly, 3 M DB-62 wiring terminal with DIN-rail mounting
- ADAM-3962 ADAM-3943
- PCI-1243U wiring board with LED

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- Pulse/Direction, CW/CCW ±16,777,215 T or S-curve acceleration/deceleration
- Machine Interfaces:

0~16,777,215

8 General Outputs: 8

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