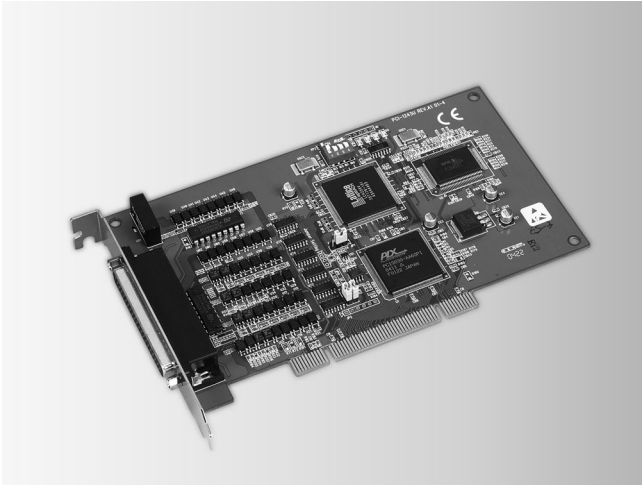


# PCI-1243U

## 4-axis Stepping Motor Control Universal PCI 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 V<sub>RMS</sub> system isolation
- BoardID switch

### Introduction

PCI-1243U is a 4-axis stepping motor control card with universal PCI interface. Each axis can be controlled directly through the card's I/O registers. This board is economic solution for stepping motor which provides 4 channels pulse train, T/S speed profile, on-the-fly velocity change and so on. The board is supplied with DLL library for Windows programmer to write the program. With the DLL driver, you can easily link to VC++®, Visual Basic® or BCB.

### Specifications

#### Pulse Type Motion Control

- **Motor Driver Support** Stepping
- **Number of Axis** 4
- **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** 4
- **Velocity Profiles** T-Curve or S-Curve acceleration/deceleration
- **Local I/O Interfaces** PEL x 4, NEL x 4, RG x 4, SLD x 4, EMG x 1
- **General Input Channels** 8
- **General Output Channels** 8

#### Isolated Digital Input

- **Channels** 8
- **Input Voltage** Logic 0: 1 V  
Logic 1: 12 V (24 V max.)
- **Isolation Protection** 3,750 V<sub>RMS</sub>
- **Opto-Isolator Response** 25 μs
- **Input Resistance** 4.7 kW

#### Isolated Digital Output

- **Channels** 8
- **Output Type** Sink (NPN)
- **Isolation Protection** 3,750 V<sub>RMS</sub>
- **Output Voltage** 5 ~ 30 V<sub>DC</sub>
- **Sink Current** 200 mA max./channel; 1.1 A max. total
- **Opto-Isolator Response** 25 μs

#### General

- **Bus Type** PCI V2.2
- **Certification** CE, FCC Class A
- **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
- **Storing Humidity** 5 ~ 95% RH, non-condensing (IEC 60068-2-3)
- **Operating Temperature** 0 ~ 60°C (32 ~ 140°F)
- **Storing Temperature** -20 ~ 80°C (-4 ~ 170°F)

### Ordering Information

- **PCI-1243U-AE** 4-axis Stepping Motor Control Card

#### Accessories

- **PCL-10162-1E** DB-62 Cable Assembly, 1m
- **PCL-10162-3E** DB-62 Cable Assembly, 3m
- **ADAM-3962-AE** DB-62 Wiring Board with DIN-rail Mounting