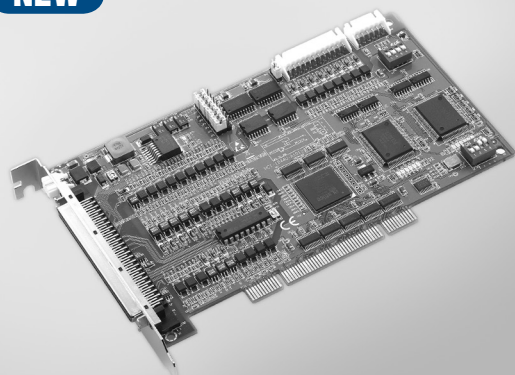


PCI-1244U

Entry-level 4-axis Stepping and Servo Motor Control Universal PCI Card

NEW



Features

- Independent 4-axis motion control
- Hand wheel and jog function
- 2-axis linear interpolation function
- Simultaneous start/stop motion on multiple axes
- Change speed on the fly
- Programmable T/S-curve acceleration/deceleration rate
- Up to 2.4 Mpps output for each axis
- Two pulse output types: CW/CCW or pulse/direction
- Up to 1 MHz encoder input for each axis
- Two encoder pulse input types: A/B phase or CW/CCW
- Constant speed control
- Position management and software limit switch function
- BoardID™ switch

Introduction

PCI-1244U is a 4-axis stepping/servo motion control card with PCI interface. PCI-1244U uses two ASICs to perform 4-axis motion control. It's designed for general-purpose motion applications. The card simplifies stepping and servo motor control and its motion ASIC builds in a variety of motion control functions, such as 2-axis linear interpolation, T/S-curve acceleration/deceleration rate, continuous motion, in positioning, home return and more. PCI-1244U performs motion control functions without processor load during driving. For advanced applications, the Windows DLL drivers and user-friendly examples is provided to decrease your programming load. Through the free bundled utility "Common Motion Manager", you can complete configuration and diagnosis easily.

Specifications

Pulse Type Motion Control

- **Motor Driver Support** Pulse-type servo/stepping
- **Number of Axes** 4
- **Interpolation** 2-axis linear
- **Max. Output Speed** 2.4 Mpps
- **Step Count Range** 0 ~ 268,435,455 (28-bit)
- **Pulse Output Type** Pulse/direction (1-pulse, 1-direction type) or CW/CCW (2-pulse type)
- **Position Counters** Range of command and actual position
- **Velocity Profiles** T-Curve, S-Curve
- **Local I/O**
 - Machine Interfaces: PEL x 4, MEL x 4, ORG x 4
 - Servo Driver Interfaces: ALM x 4, INP x 4

Encoder Interface

- **Input Type** Quadrature (A/B phase) or up/down
- **Counts per Enc. Cycle** x1, x2, x4 (A/B phase only)
- **Input Range** 5 ~ 25 V
- **Isolation Protection** 2,500 V_{DC}
- **Max. Input Frequency** 1 MHz

General

- **Bus Type** Universal PCI V2.2
- **Certifications** CE
- **Connectors** 1 x 100-pin SCSI female connector
- **Dimensions (L x H)** 175 x 100 mm (6.9" x 3.9")
- **Power Consumption** 5 V @ 900 mA max.
- **Humidity** 5 ~ 95% RH, non-condensing (IEC 68-2-3)
- **Operating Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -20 ~ 80° C (-4 ~ 176° F)

Ordering Information

- **PCI-1244U** Entry-level 4-axis Servo Motor Control PCI Card
- **ADAM-39100** 100-pin DIN-rail SCSI Wiring Board
- **PCL-101100M-1** 100-pin SCSI Cable, 1 m
- **PCL-101100M-3** 100-pin SCSI Cable, 3 m