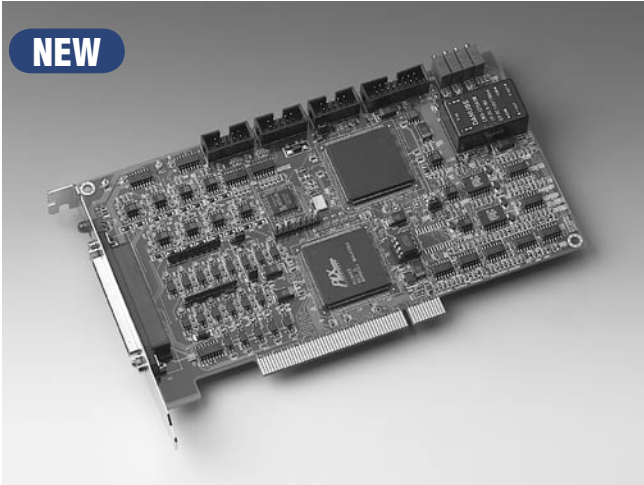


PCI-1241

4-Axis Voltage-type Servo Motor Control Card

NEW



FCC CE

Features

- PCI Bus interface
- 4-axis servo positioning control
- 5-channel encoder input
- 4 channel 16-bit D/A Converters
- 13 dedicated input and 5 dedicated output
- 6 channel 12-bit A/D converter (Optional)
- 256 remote serial input/ output interfaces

Introduction

PCI-1241 uses an ASIC for 4-axis servo positioning and synchronized control with a DDA (Digital Differential Analyzer) to evenly move each axis. Closed-Loop control is implemented with P control, and -10 to +10 V signals are used for outputs to the speed type servo motor driver. It can be applied to multi-axis precision servo control, and it can also read back motor encoder values via its encoder input port to allow stepping motor control. In the control of each axis, there is a set of sensor input points, including: home points, plus limit points and minus limit points. Furthermore, there are inhibit signal output points, position ready output points and an emergency stop input point. It can be expanded up to 128 points input and 128 points output. Additionally, the board reserves a set of 6-channel A/D conversion.

Specifications

Hardware

- **Size** 185 x 109 mm
- **System Clock** 40 MHz
- **Bus Interface** PCI

Motion

- **Positioning Axes** 4
- **Max. DDA Commands** 210-15 pulses
- **DDA Cycle** 25 μ s ~3350ms Programmable
- **Velocity Command Range** +/- 10V
- **Pulse Output Format** Pulse/DirectionCW/CC WA/B Phase
- **Error Counter (For Output Pulse)** 16 bits
- **Remote IO** 128 IN/128 OUT Maximum
- **D/A Converter** 4 channels, 16-bit resolution
- **A/D Converter** 6 channels, 12-bit resolution with differential inputs (Optional)
- **Encoder Input Interface** 5 axes
Differential Input with Photo-Isolation
- **Input Format** A/B/Z Phase Pulse /DirectionCW/CCW
- **Decoder** x0, x1, x2, x4, Software programmable in A/B/Z phase input
- **Encoder Counter** 32 bits
- **Latch** 15 trigger signals for each axis

Local IO

- **Home Sensor Signal Input** 4
- **Positive Over Travel** 4

Signal Input

- **Negative Over Travel Signal Inputs** 4
- **Inhibit Signal Outputs** 4
- **Emergency Stop Inputs** 1
- **Position Ready Outputs** 1

Software Support

- **Device driver for DOS, Windows® 95/98/2000/NT/XP**
- **Motion control library MCCL for DOS, Windows® 95/98/2000/NT/XP**

Ordering Information

- **PCI-1241** 4-axis Voltage-type Servo Motor Control Card
- **PCL-10168** 68-pin SCSI-II cable with male connectors on both ends and special shielding for noise reduction, 1 and 2m
- **ADAM-3968** 68-pin SCSI-II Wiring Terminal Board for DIN-rail mounting
- **ADAM-3941** Wiring terminal for PCI-1241/1242 with LEDs
- **PCLD-8241** 64 DI / 64 DO Remote IO Board