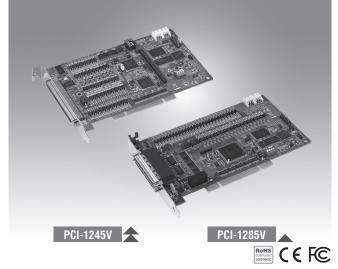
PCI-1245V PCI-1285V

Value DSP-Based 4/8-Axis Stepping and Servo Motor Control Universal PCI Card



Features

- Encoder input is 10 MHz for 4xAB mode, 2.5 MHz for CW/CCW mode
- Pulse output up to 5 Mpps
- Supports linear and circular interpolation
- Hardware emergency input .
- Supports E-Gear
- Supports programmable acceleration/deceleration rate
- . Memory buffer (up to 10K points) for trajectory planning which is designed in DSP(Auto-blending is not supported)
- Position compares triggering up to 100 KHz, and memory buffer is up to 100 K points in DSP
- Position latch
- Programmable interrupt and watchdog timer
- RDY/LTC-dedicated input channels & SVON/CMP/CAM-DO/ERC-dedicated output channels are switchable for general input and output purposes

Introduction

The PCI-1245V is a 4-axis universal PCI (supporting both 3.3 V and 5 V signal slot) stepping/pulse-type servo motor control card designed for applications which need to control interpolation, synchronization among multiple axes, and continuous contouring. The PCI-1245V utilizes high-performance DSP and FPGA to calculate the motion trajectories, synchronization timing control for multiple axes, and input/output handling to offer functionality, such as linear interpolation, 2/3- axis circular interpolation, compare triggers, T/S-curve acceleration/deceleration rates, and so on. In addition, Advantech supplies a Common Motion API library, graphical utility and user-friendly examples to decrease programming workloads.

Specifications

Pulse Type Motion Control

- Motor Driver Support Pulse-type servo/stepping
- Number of Axes
- Interpolation
- Max. Output Speed
- Step Count Range
- Pulse Output Type
- Position Counters
- Velocity Profiles Local I/O Machine Interfaces: Servo Driver Interfaces:
- Position Compare I/O

Encoder Interface

- Input Type
- Counts per Enc. Cycle x1, x2, x4 (A/B phase only)
- Input Range
- Isolation Protection
- Max. Input Frequency

General

- Bus Type
- Connectors
- Dimensions (L x H)
- Power Consumption
 - Typical: 5 V @ 850 mA Max.: 5 V @ 1 A
- Humidity
 - 5 ~ 95% RH, non-condensing (IEC 60068-2-3)
- Operating Temperature 0 ~ 60°C (32 ~ 140°F) Storage Temperature -20 ~ 85°C (-4 ~ 185°F)
- AD\ANTECH

All product specifications are subject to change without notice.

Ordering Information

- PCI-1245V-AE
 - Value 4-axis Stepping/Pulse-type Servo Motor Control Universal PCI Card Value 8-axis Stepping/Pulse-type Servo Motor Control

Universal PCI Card

PCI-1285V-AE

Accessories

- ADAM-3956-AE
- ADAM-3955-AE
- ADAM-3952-AE
- PCL-101100M-1E/2E/3E 100-pin SCSI Cable, 1m/2m/3m 100-pin SCSI to Two 50-pin SCSI Cable, 1m/2m/3m
- PCL-10251-1E/2E/3E
 - PCL-20253PA5-S2E 50-pin Cable to Panasonic A4/A5 Servo, 2 m
 - PCL-20153YS5-S2E
- 50-pin Cable to Yaskawa Sigma V/7 Servo, 2 m
- PCL-20153MJ3-S2E PCL-20153DA2-S2E
- 50-pin Cable to Mitsubishi J3/J4 Servo, 2 m 50-pin Cable to Delta A2 Servo, 2 m

100-pin DIN-rail SCSI 4-axis Motion Wiring Board

50-pin DIN-rail SCSI 2-axis Motion Wiring Board

50-pin DIN-rail SCSI and Box Header Board

CMP Quadrature (A/B phase) or up/down

Linear, 2/3-axis circular interpolation

- 0~10 V 2.500 Vpc
- 10 MHz under 4xAB mode

Universal PCI V2.2

1 x 100-pin SCSI female connector

175 x 100 mm (6.9" x 3.9")

- Pulse/direction (1-pulse, 1-direction type), CW/CCW
- Range of command and actual position T-Curve, S-Curve
- LMT+, LMT-, ORG ALM, INP

4/8

5 Mbps

±2, 147, 483, 646

(2-pulse type)