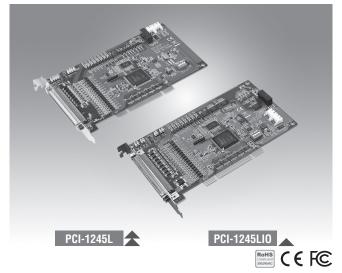
PCI-1245L **PCI-1245LIO**

4-Axis Stepping and Servo Motor Control Universal PCI Card

4-Axis Stepping and Servo Motor Control Universal PCI Card with I/O Extension



Features

- Encoder input is 10 MHz for 4xAB mode, 2.5 MHz for CW/CCW mode
- Pulse output up to 1 Mpps and the output type can be switched to differential or single-end by jumper setting
- Supports 2 axis linear interpolation
- Supports 3 axis linear interpolation (PCI-1245LIO only)
- Supports 2 axis arc interpolation (PCI-1245LIO only)
- Supports T/S-curve
- Supports speed override
- Hardware emergency input
- Watchdog timer
- Supports programmable acceleration/deceleration rate
- Programmable interrupt
- RDY dedicated input channels & SVON/ERC dedicated output channels are switchable for general input and output purposes
- Supports extra 16 isolated DI / 16 isolated DO via wiring board (PCI-1245LIO only)

Introduction

The PCI-1245L/45LIO are 4-axis universal PCI card supporting (both 3.3 V and 5 V signal slots) stepping/pulse-type servo motor control cards designed for entry-level applications which need to control JOG, point to point, continuous move, and interpolation motion such as 2-axis linear, 3-axis linear (PCI-1245LIO) and 2-axis arc move (PCI-1245LIO). The PCI-1245LIO also provides an extra 16 DI and 16 DO via terminal board MTB-3956LIO. In addition, all Advantech motion controllers use the "Common Motion API" architecture which is a unified user programming interface and graphical utility. This architecture saves application maintenance and upgrades. Programmers can benefit from integrating any Advantech SoftMotion controller without changing large amounts of the application code. User-friendly examples decrease programming workload, helping users complete configuration and diagnosis easily.

Specifications

Pulse Type Motion Control

Motor Driver Support Pulse-type servo/stepping

Δ

1 Mbps

- 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: General Digital I/O:

Encoder Interface

- Input Type
- **Counts per Enc. Cycle**
- Input Range
- **Isolation Protection**
- Max. Input Frequency

General

- Bus Type
- Connectors
- Dimensions (L x H)
- Power Consumption .
- Humidity
- Storage Temperature

- purpose output) Quadrature (A/B phase) or up/down x1, x2, x4 (A/B phase only) 3~10 V 2,500 V_{DC}
- 10 MHz under 4xAB mode

2-axis linear interpolation

±2, 147, 483, 646

T-Curve, S-Curve

Ordering Information

- PCI-1245L-AE
- 4-axis Stepping/Pulse-type Servo Motor Control Universal PCI Card

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

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

w/ I/O-extension (Only for PCI-1245LIO)

PCI-1245LIO-AE 4-axis Stepping and Servo Motor Control Universal PCI Card with I/O-extension

Accessories

- 50-pin Cable to Delta A2 Servo, 2 m

50-pin Cable to Panasonic A4/A5 Servo, 2 m

- Universal PCI V2.2 1 x 100-pin SCSI female connector 175 x 100 mm (6.9" x 3.9")
- Typical: 5 V @ 0.6 A
- Max.: 5 V @ 1 A
 - 5 ~ 95% RH, non-condensing (IEC 60068-2-3)
- **Operating Temperature** 0 ~ 60°C (32 ~ 140°F) -20~85°C (-4~185°F)

LMT+, LMT-, ORG ALM, INP 16-ch DI, 16-ch DO (RDY pin can be switchable to general-purpose input and SVON/ERC pin to general-

(2-pulse type) or single-ended +5V output

Range of command and actual position

- Pulse/direction (1-pulse, 1-direction type), CW/CCW
 - ADAM-3956-AE
 - ADAM-3955-AE
 - ADAM-3952-AE
 - 100-pin SCSI to Two 50-pin SCSI Cable, 1m/2m/3m
 - PCL-10251-1E/2E/3E
 - PCL-10153PA5-2E
 - PCL-10153MJ3-2E
- 50-pin DIN-rail SCSI 2-axis Motion Wiring Board 50-pin DIN-rail SCSI and Box Header Board PCL-101100M-1E/2E/3E 100-pin SCSI Cable, 1m/2m/3m

 - PCL-10153YS5-2E
 - 50-pin Cable to Yaskawa Sigma V/7 Servo, 2 m 50-pin Cable to Mitsubishi J3/J4 Servo, 2 m
 - PCL-10153DA2-2E

MTB-3956LIO-AE