PCL-839+

3-axis Stepping Motor Control ISA Card



Features

- Independent, simultaneous control of three stepping motors
- Optically-isolated outputs
- Five isolated digital inputs per axis for limit switches
- Half-size PC add-on card
- Up to 200 kpps step rate
- 16 x digital I/O

Embedded Controllers
PC-based Controllers

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Motion Control

RS-485 I/O

Ethernet I/O

Puilding Automation

Building Automation

Self-service Terminals



Introduction

PCL-839+ three axis intelligent stepping motor control card turns your IBM-compatible PC into a 3-axis motion-control station. The card's one PCD-4541 intelligent controller chips can execute a variety of motion-control commands. For advanced applications, Advantech supplies function libraries which you can link to your C program.

Programming PCL-839+

You can control each axis directly through the card's I/O registers. but use of the card's high-level interpreter is recommended. This interpreter reads high-level commands from a text file to perform specific tasks. We also supply function libraries which you can call from your C program. The libraries come with 'Turbo C' source code which you can recompile if you want to access the libraries from other C compilers.

Specifications

Pulse Type Motion Control

Motor Driver Support
 Number of Axes
 Max. Output Speed
 Step Count Range
 Pulse Output Type
 Step Count Range
 Pulse Output Type

• Velocity Profiles T-Curve

Local I/O

Machine Interfaces: PEL x 3, MEL x 3, ORG x 3, SLD x 6

General Inputs: 16 (5 V/TTL)
General Outputs: 16 (5 V/TTL)

General

Bus Type ISACertifications CE

• Connectors 1 x DB37 (limit switches and pulse output)

1 x 20-pin flat cable (digital I/O)

■ **Dimensions (L x H)** 185 x 100 mm (7.3" x 3.9") ■ **Power Consumption** Max.: 5 V @ 390 mA

• Storage Humidity 5 ~ 95% RH, non-condensing (IEC 68-2-3)

Operating Temperature 0 ~ 70° C (32 ~ 158° F)
 Storage Temperature -20 ~ 70° C (-4 ~ 158° F)

Ordering Information

■ PCL-839+ 3-axis Stepping Motor Control ISA Card

PCL-10137-1
 PCL-10137-2
 PCL-10137-3
 DB37 Cable, 2 m
 DB37 Cable, 3 m

ADAM-3937 DB37 DIN-rail Wiring Board

ADAM-3920
 20-pin DIN-rail Flat Cable Wiring Board

Mouser Electronics

Authorized Distributor

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Advantech: PCL-839+-AE