PCL-839+
3-axis Stepping Motor Control Card

Introduction
The 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, we supply function libraries which you can link to your C program.

Programming the 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
- Axes 3, independent
- Max. Step Count 0~16,777,215
- Max. Step Rate 200 kpps
- Acceleration/Deceleration Automatic trapezoidal, ramping, programmable start run and sampling rate
- Output Pulse Signal Two pulse (CW/CCW) mode or one pulse (pulse, direction) mode. Optically coupled with 10 K pull-up resistor
- Output Driving Capability 20 mA @ 0.4 V (sink)
- Output Polarity Positive/negative, programmable
- Limit Switches Five per channel (home, forward/reverse end limit, forward/reverse high speed limit)

DI/O and Interrupt
- DI/O 16 digital inputs and 16 digital outputs, TTL compatible
- Interrupt IRQ 2, 4, 5, 7, 11, 12 or 15 for limit switches, jumper selectable

General
- I/O Addresses 16
- Power Consumption 5 V @ 390 mA max.
- Operating Temperature 0~60°C (32~140°F)
- Storage Temperature -20~70°C (-4~158°F)
- Operating Humidity 5~95% RH non-condensing (refer to IEC 68-2-3)
- Connectors 20-pin flat cable for general DIO
- Dimensions (L x H) 185 x 100 mm (7.3" x 3.9")

Ordering Information
- PCL-839+ Intelligent 3-axis stepping motor control card, user's manual and driver CD-ROM (cable not included)
- PCL-10137-1 DB37 cable assembly, 1 m
- PCL-10137-2 DB37 cable assembly, 2 m
- PCL-10137-3 DB37 cable assembly, 3 m
- ADAM-3937 DB37 wiring terminal for DIN-rail mounting

Applications
- X-Y table control
- Rotary machine control
- Robotics control
- Precision position control using stepping motors