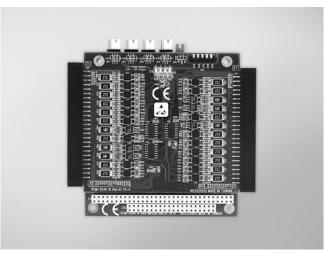
PCM-3240

4-axis Stepping and Servo Motor **Control PC/104 Card**



Features

- PC/104 interface
- Independent 4-axis motion control
- Hand wheel and jog function
- 2/3-axis linear interpolation function
- 2-axis circular interpolation function
- Continuous interpolation function
- Programmable T/S-curve acceleration/deceleration rate
- Up to 4 Mpps pulse output for each axis
- Two pulse output types: CW/CCW or pulse/direction
- Up to 1 MHz encoder input for each axis
- Two encoder pulse input types: A/B phase or up/down
- Constant speed control
- Position management and software limit switch function
- BoardID™ switch





Introduction

PCM-3240 is a 4-axis stepping/pulse-type servo motor control card designed for general-purpose motion applications. PCM-3240 is a high-speed 4-axis motion control card for the PC/104 bus that simplifies stepping and pulse-type servo motor control, giving you added performance from your motors. The card's intelligent NOVA® MCX314-motion ASIC builds in a variety of motion control functions, such as 2/3-axis linear interpolation, 2- axis circular interpolation, T/S-curve acceleration/deceleration rate and more. In addition, the PCM-3240 performs these motion control functions without processor loading during driving. For advanced applications, we supply Windows® DLL drivers and user-friendly examples to decrease your programming load. Moreover, with a free bundled PCM-3240 motion utility, you can easily complete configuration and diagnosis.

Specifications

Pulse Type Motion Control

 Motor Driver Support Pulse-type servo/stepping

Number of Axes

2-axis linear, 3-axis linear, 2-axis circular Interpolation

 Max. Output Speed 4 Mpps

 Step Count Range ±2, 147, 483, 646

Pulse/direction (1-pulse, 1-direction type), or Pulse Output Type

CW/CCW (2-pulse type)

 Position Counters Range of command, range of actual position

 Velocity Profiles T-Curve. S-Curve

Local I/O

Machine Interfaces: PEL x 4, MEL x 4, ORG x 4

Servo Driver Interfaces: ALM x 4, RDY x 4, SVON x 4, INP x 4

Position Compare I/O: CMP x 4 General Inputs: 12 General Outputs: 16

Encoder Interface

Input Type Quadrature (A/B phase or up/down) Counts per Enc. Cycle x1, x2, x4 (A/B phase only)

 Input Range 5 ~ 25 V Isolation Protection 2,500 V_{DC} Max. Input Frequency 1 MHz

General

Bus Type PC/104 Certifications

Connectors 2 x IDC 50-pin male connector Dimensions (L x H) 96 x 91 mm (3.8" x 3.6") **Power Consumption** Typical: 5 V @ 850 mA Max.: 5 V @ 1 A

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

• Operating Temperature $0 \sim 60^{\circ} \text{ C} (32 \sim 140^{\circ} \text{ F})$ Storage Temperature -20 ~ 85° C (-4 ~ 185° F)

Ordering Information

 PCM-3240 4-axis Stepping/Servo Motor Control PC/104 Card

PCL-10150-1.2 50-pin Flat Cable, 1.2 m

ADAM-3950 50-pin DIN-rail Flat Cable Wiring Board ADAM-3952 50-pin DIN-rail SCSI Wiring Board