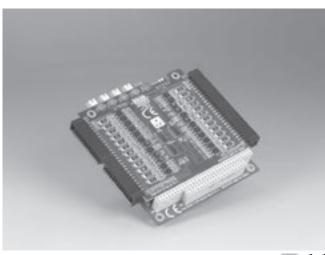
PCM-3240

4-axis PC/104 Stepping/Pulse-type **Servo Motor Control 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

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

 Max. Output Speed 4 Mpps

 Step Count Range ±2, 147, 483, 646

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

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: 3 General Outputs: 4

Encoder Interface

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

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

General

Bus Type PC/104 Certifications CE

Connectors 2 x IDC 50-pin male **Dimensions** 96 x 91 mm

 Power Consumption Typical: 5 V @ 850 mA Max: 5 V @ 1 A

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

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

Ordering Information

PCM-3240 4-axis stepping/pulse-type servo motor control card

PCL-10150-1.2 50-pin flat cable, 1.2 m

ADAM-3950 50-pin flat cable wiring terminal for DIN-rail mounting PCL-12250-1 Two 50-pin flat cable to 100-pin SCSI connector, 1 m ADAM-3952/J2S PCM-3240 Wiring Board for Mitsubishi J2S series

ADAM-3952/PMA PCM-3240 Wiring Board for Panasonic Minas A series ADAM-39100 100-pin SCSI-II wiring terminal for DIN-rail mounting

ADAM-3952 Wiring Terminal for DIN-rail mounting