

Features

- PCI Bus interface
- 6-axis servo or stepping motor pulse command control
- 6-axis encoder input
- 19 dedicated input and 7 dedicated output
- 128 remote serial input / output interfaces
- Pulse type version of EPCIO-6000 (connector compatible)



Introduction

EPCIO-6005 applied EPCIO ASIC developed by ITRI, which sent the pulse of each axis with DDA (Digital Differential Analyzer) algorithm to realize 6 axis servo positioning and synchronized control. At pulse output control, the encoder value can be read back from the encoder input port. So, it is easy to carry out the software close loop control in stepping motor application. At control of each axis, there is one set sensor input point, including home point, upper limit switch point and lower limit switch point. In addition, there are inhibit signal output points, Position ready output point and emergency stop input point. For other input / output points, this board uses wiring saving IO design, which can be expanded to 64 points input and 64 point output maximum.

Specifications

- Size: 185mm x 109mm
- System Clock: 40 MHz
- Bus Interface: PCI
- Motion:
 - ◆ Positioning Axes: 6
 - ◆ DDA Pulses: 1024 ~ 32767 Pulse/DDA Cycle
 - ◆ DDA Cycle: 25us ~ 3350ms Programmable
 - ◆ Pulse Output Format:
Pulse/Direction, CW/CCW, A/B Phase
 - ◆ Error Counter (For Output Pulse): 16 Bits
- Remote IO: 64 IN/64 OUT Maximum

- Encoder Input:
 - ◆ 6 Axes
 - ◆ Interface: differential with photocoupler
 - ◆ Input Format:
A/B/Z Phase, Pulse / Direction, CW/CCW
 - ◆ Decoder: x0, x1, x2, x4
Software programmable in A/B/Z phase input
 - ◆ Position Counter: 32 bits
 - ◆ Latch: 15 trigger signal for each axis
- Local IO:
 - ◆ Home Sensor Signal Inputs: 6
 - ◆ Positive Over Travel Signal Inputs: 6
 - ◆ Negative Over Travel Signal Inputs: 6
 - ◆ Inhibit Signal Outputs: 6
 - ◆ Emergency Stop Input: 1
 - ◆ Position Ready Output: 1

Software Support

- Device driver for
Windows 98se/2000/NT/XP/Vista
- Motion control library MCCL for
Windows 98se/2000/NT/XP/Vista

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