PCI-8134A
Entry-level 4-axis Servo & Stepper Motion Controller

Specifications

Pulse Type Motion Control
- Number of Axes: 4
- Pulse Output Rate: 0.01 pps to 2.4 Mpps programmable
- Pulse Command Output: DIR/OUT, CW/CCW
- Max. Acceleration Rate: 245Mpps²
- Speed Resolution: 16-bit
- Encoder Input Rate: 2.4 MHz @ 3 M cable
- Encoder Counter Resolution: 28-bit
- Positioning Range: -134,217,728 to +134,217,727 pulses (28-bit)
- Max. Number of Cards in One System: 12

Motion Interface I/O Signals
- I/O Pin: Differential and 2500 Vrms optically isolated
- Incremental Encoder Signals Input Pin: DIR/OUT, EA/EB
- Encoder Index Signal Input: EZ
- Mechanical Limit Switch Signal Input Pin: ±EL, SD, and ORG
- Servomotor Interface I/O Pin: INP, ALM, ERC, SVON, RDY
- Pulse Signal Input: PA and PB
- Simultaneous Start/Stop Signal I/O Pin: STA and STP

Features
- 32-bit PCI bus, Rev. 2.2, 33 MHz
- Pulse output rates up to 2.4 MHz
- Pulse output options: OUT/DIR, CW/CCW
- Encoder input frequency up to 2.4 MHz under 4 x AB mode
- 2 axes linear interpolation
- Programmable acceleration and deceleration time
- Trapezoidal and S-curve velocity profiles
- Easy interface to any stepping motors, AC or DC servo
- Linear or rotary motors
- 28-bit up/down counter for incremental encoder
- All digital inputs and outputs are 2500 Vrms isolated
- Change speed override
- Multi-axis, simultaneous start/stop
- Dedicated I/O interface for PEL, MEL, ORG, EZ, INP, ERC, ALM
- Programmable interrupt sources
- Manual pulser input interface
- Supports up to 12 cards in one system
- 3 ASIC-based home return modes and 9 software-based home return modes
- More than 75 thread safe API functions

Software Support
- OS Information
  - Windows® 8/7/XP
  - Linux
  - RTX 5.x/6.x/B.1a
- Software Compatibility
  - VB/VC++/BCB/Delphi
  - Various sample programs with source codes
- Software Recommendations
  - MotionCreatorPro

Ordering Information
- PCI-8134A
  - Entry-level 4-axis servo & stepper motion controller

Accessories
For more information on terminal boards & cables, please refer to page 6-1.

Terminal Boards
- DIN-1005-01
  - Terminal board with one 100-pin SCSI-II connector and DIN-rail mounting
- DIN-814-GP
  - Terminal board with 100-pin SCSI-II connector for general purpose
- DIN-814M0
  - Terminal board for Mitsubishi MR-J2S-A servo amplifier
- DIN-814M-J3A0
  - Terminal board for Mitsubishi MR-J3A/J4A servo amplifiers
- DIN-814Y0
  - Terminal board for Yaskawa Sigma V servo amplifier
- DIN-814PA-A40
  - Terminal board for Panasonic MINAS A4/AS servo amplifiers

Cabling
- ACL-102100-I
  - 100-pin SCSI-II cable (mating with AMP-787082-9), 1 M

Pin Assignment

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