PCI-8164 / PXI-8164
Advanced 4-axis Servo & Stepper Motion Controllers with High-Speed Triggering

Specifications

Pulse Type Motion Control
- Number of Axes: 4
- Pulse Output Rate: 0.01 ppm to 6.5 Mpps
- Max. Acceleration Rate: 245 Mpps
- Speed Resolution: 16-bit
- Encoder Input Rate: 6.55 MHz under 4 x AB phase @ 1 M cable
- Encoder Counter Resolution: 28-bit
- Positioning Range: \(-134,217,728 + 134,217,727\) pulses (28-bit)
- Counters: x 4 for each axis
- Comparators: x 5 for each axis

Motion Interface I/O Signals
- Position Latch Input Pin: LTC
- Position Compare Output Pin: CMP (15 kHz for continuous triggering)
- I/O Pin: Differential and 2500 Vrms optically isolated
- Incremental Encoder Signals Input Pin: EA and EB
- Encoder Index Signal Input: EZ
- Mechanical Limit Switch Signal Input Pin: \(+, EL, SD, and ORG\)
- Servomotor Interface I/O Pin: INP, ALM, ERC, RDY, SVON
- General DO Pin: SVON
- General DI Pin: RDY
- Pulser Signal Input: PA and PB
- Simultaneous Start/Stop Signal I/O Pin: STA and STP

Ordering Information

- **PCI-8164**: Advanced 4-axis servo & stepper motion controller with high-speed triggering
- **PXI-8164**: Advanced PXI 4-axis servo & stepper motion controller with high-speed triggering

Accessories

For more information on terminal boards & cables, please refer to page 6-31.

Terminal Boards
- **DIN-1005-01**: Terminal board with one 100-pin SCSI-II connector and DIN-rail mounting
- **DIN-814+**: Terminal board with 100-pin SCSI-II connector for general purpose
- **DIN-814P10**: Terminal board for Mitsubishi MR-J2S-A servo amplifier
- **DIN-814P-J3A0**: Terminal board for Mitsubishi MR-J3A/HA servo amplifiers
- **DIN-814Y0**: Terminal board for Yaskawa Sigma V amplifier
- **DIN-814P-4A0**: Terminal board for Panasonic MINAS A4/A5 servo amplifiers with 100-pin SCSI-II connector

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

Updated January 29, 2013. ©2013 ADLINK Technology, Inc. All Rights Reserved. All specifications are subject to change without further notice.