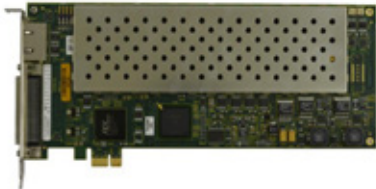


Delta Sigma Analog Input PCIe Cards

Concurrent's CP-AD3224 is a 32-channel analog to digital 24-bit delta sigma converter card with a PCI Express interface. The card is implemented using Cirrus Logic CS5368 delta-sigma converters. Each converter has an independently selectable clock source generated by a low jitter PLL. The interface is fully differential right up to the converter inputs for low noise and accurate measurements. Multi-board clocking and synchronization is supported. A RedHawk™ Linux® driver with extensive API including DMA and interrupt support is available for both 32-bit and 64-bit architectures.



CP-AD3224

More Information:

concurrent-rt.com

wiki.simwb.com

info@concurrent-rt.com

800.666.4544

954.974.1700

FEATURES:

- 32-channel 24-bit Delta Sigma Analog to Digital Conversion
- Differential +/-10V or +/-5V Input
- Cirrus Logic CS5368 ADCs
- Industry Standard SCSI 68-pin Connector for inputs
- RJ-12 (6-pin phone style) Connectors for Multi-board Synchronization
- PCI Express x1 Revision 1.0a
- Supports MSI Interrupts
- Independent Clocking for Four Channel Groups
- Low Jitter Phase Lock Loop (PLL) Clock Generators
- Supports Multi-board Clocking & Synchronization
- Directly Addressable Conversion Data Registers
- 64K Word Conversion Data FIFO with DMA
- Low Noise Analog Power Generation
- Positive and Negative Calibration Voltage
- Gain and Offset Calibration Values Accessible
- Differential Input Impedance: >1Meg ohm (10V), >200K ohm (5V)
- Input Over-Voltage Protection: +/- 30V
- Sampling Rate (Fs) 2KHz to 216KHz
- NIST Traceable Calibration Standard

SPECIFICATIONS:

PACKAGING

Full Height PCI Express 3.8" high, 9.5" long (10V), 8.0" long (5V)

POWER REQUIREMENTS

Less than 25 watts (3.3VDC @ 2 Amp, 12VDC @ 1.2 Amp)

ENVIRONMENTAL

Operating: 10° to 40° C

Storage: -40° to 65° C

Relative Humidity: 10 to 80% non-condensing

ROHS Compliant

ORDERING INFORMATION:

- CP-AD3224-DS-10**
32-channel, 24-bit Delta Sigma +/-10 Volt A-to-D PCIe card
- CP-AD3224-DS**
32-channel, 24-bit, Delta Sigma +/- 5 Volt A-to-D PCIe card
- WC-AD3224-DS**
Driver for RedHawk Linux
- ICS-SWB-1242**
SIMulation Workbench™ I/O License
- CX-CBL-HSI-68-nn = 03, 06 or 10**
3/6/10-foot 68-pin Host Interface Cable
- CX-ALOG-SYNC-nn = 01, 10 or 30**
1/10/30-foot Analog I/O Sync Cable
- CX-CBL-AIO-BRKOUT**
Analog I/O Terminal Breakout Module