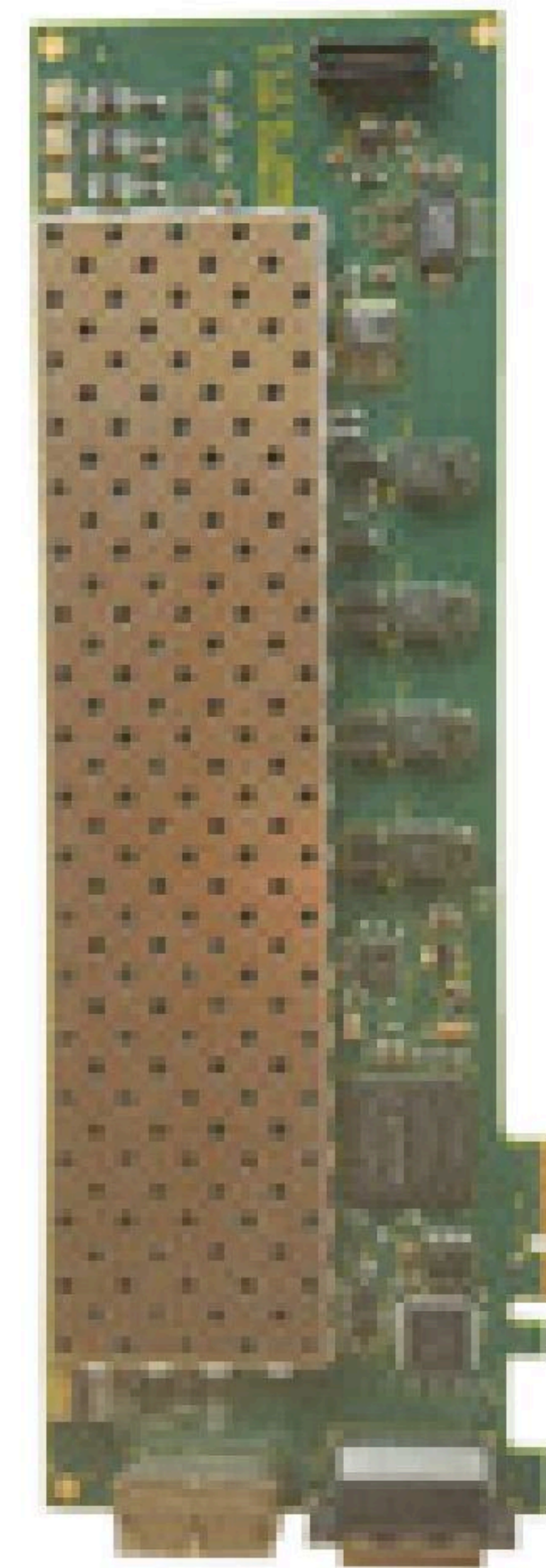


64-Channel Analog Input PCIe Card

Concurrent's CP-ADS6418 is a 64-channel, 18-bit, FPGA-based analog-to-digital converter card with a PCI Express interface. The CP-ADS6418 converts up to 500K samples/second per channel when using 64 channels. The card can also be used as a 32-channel card supporting up to 700K samples/second per channel. In addition, two channels can be combined to sample as a single channel providing up to 32 channels converting up to 1 Mega sample per second. The card is implemented using Analog Devices LTC2353 converters. Each converter group has an independently selectable clock source generated by a low jitter clock generator. The card can be configured for single-ended input or differential input for low noise and accurate measurements. Multi-board clocking and synchronization is supported. A RedHawk™ Linux® driver with an extensive software API that includes DMA and interrupt support is available.



Features

- ◆ Input Voltage Range: 0-5V, 0-10V, +/-5V, +/-10V
- ◆ 64-channel 18-bit SAR Analog-to-Digital Conversion
- ◆ Differential or Single Ended Input
- ◆ 1 Meg Ohm Input Impedance
- ◆ +/- 50V Input Over Voltage Protection
- ◆ Maximum Sampling Rates:
 - 64-channels: 500K samples/second
 - 32-channels: 700K samples/second
 - 32-channels Dual Mode: 1000K samples/ second
- ◆ PCI Express Gen 1 x4 Lane
- ◆ Breakout Cables and Boards Available
- ◆ NIST Traceable Calibration Standard
- ◆ Extensive Software API
- ◆ In System Calibration
- ◆ Industry Standard High Density SCSI 68-pin connectors
- ◆ Multi-board Synchronization
- ◆ RJ-45 Synchronization Connectors

Specifications:

Packaging

Full Height, Full Length PCI Express
3.8" high, 12.3" long

Power Requirements

Less than 25 watts (3.3VDC @ 2Amp,
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-ADS6418**
64-channel, 18-bit +/-10 Volt A/D
PCIe card
- ◇ **WC-ADS6418**
Driver for RedHawk Linux with API
- ◇ **ICS-SWB-1242**
SIMulation Workbench I/O License

Cabling Options

(Two cables are recommended):

- CX-CBL-HSI-F-02 - 2-meter cable
- CX-CBL-HSI-F-03 - 3-meter cable
- CX-CBL-HSI-F-05 - 5-meter cable
- CX-CBL-HSI-F-15 - 15-meter cable
- CX-CBL-AIO-BRKF Breakout Module



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