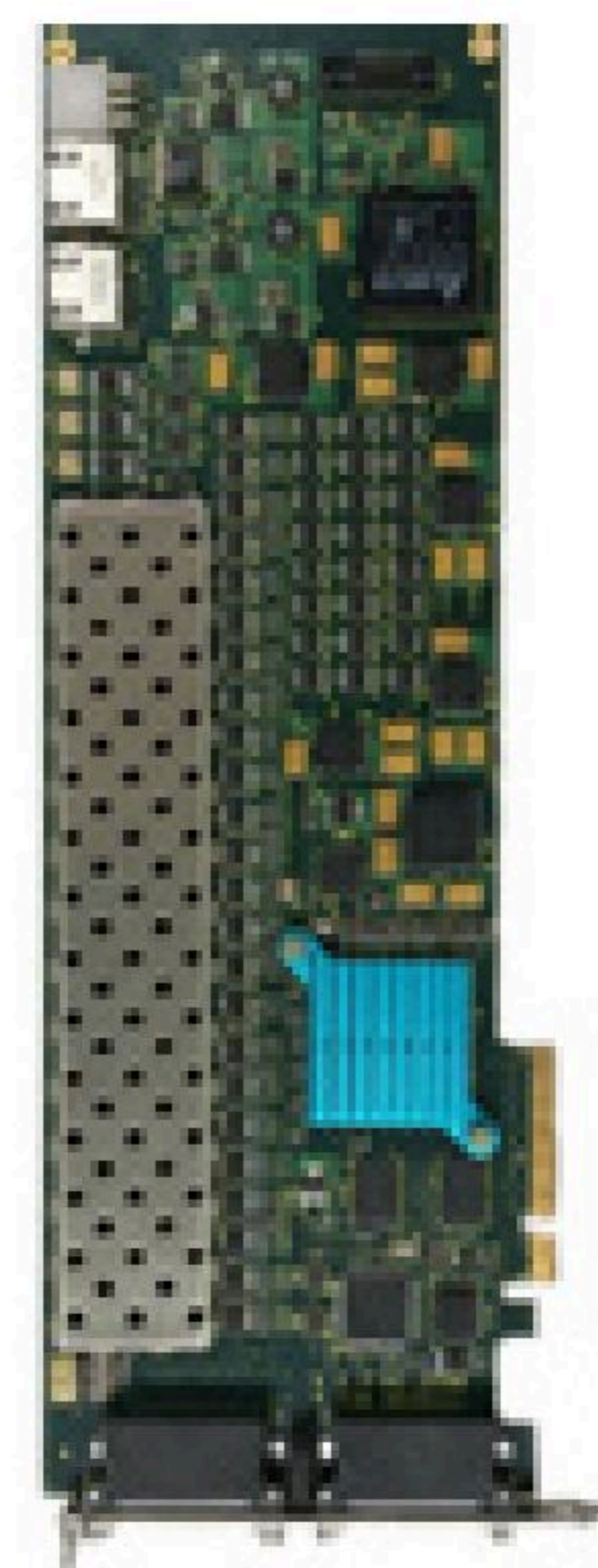


# Multi-Function I/O PCIe Card

Concurrent's Multi-Function I/O PCIe card features a powerful field-programmable gate array that supports both digital and analog I/O. The Multi-Function card can control up to 96 digital I/O signals along with 16 analog inputs and 16 analog outputs. The card features isolated I/O power, high-speed digital isolators and multi-board synchronization. Optional NIST traceable calibration is available for the analog section. A RedHawk™ Linux® driver with extensive API including DMA and interrupt support is available for both 32-bit and 64-bit architectures.



## Features:

- ◆ 96-channel Digital I/O
  - 5V 4mA TTL (3.3V Available)
  - Digital I/O Direction per Nibble
  - High Speed Digital Isolators
- ◆ 16-channel 16-bit D-to-A Conversion
  - Single-ended Output
  - 0 to +10V, +/-5V or +/-10V
- ◆ Output Range Selection
  - 10 Milliamp Output Drive
  - 100K Updates Per Second Per Channel
- ◆ 16-channel 16-bit A-to-D Conversion
  - Differential or Single-ended Input
  - +/-5V or +/-10V Input Range
  - 300K Updates Per Second Per Channel
- ◆ 1GB DRAM
- ◆ TCXO Clock Source
- ◆ 8-output Programmable Clock Generator
- ◆ Industry Standard SCSI 68-pin VHD Connectors for I/O
- ◆ RJ-45 Connectors for Multi-board Synchronization
- ◆ PCI Express x4 Revision 1.0a
- ◆ Isolated Power on all I/O
- ◆ Optional NIST Traceable Calibration

## Specifications:

### Packaging

Full Height Full Length PCI Express (12.3" long x 3.8" high)

### Power Requirements

Approximately 25 watts (12VDC @ 2 Amp)

### Environmental

- Operating: 10° to 40° C
- Storage: -40° to 65°C
- Relative Humidity: 10 to 80% non-condensing
- Cooling: Forced Air Required
- ROHS Compliant

## Ordering Information:

- ◆ **CP-MFIO**  
Multi-function I/O card with 96-channel 5V Digital I/O, 16-channel Analog Out, 16-channel Analog In, x4 PCIe.
- ◆ **WC-CP-FIO**  
Driver for RedHawk Linux
- ◆ **ICS-SWB-1278**  
SIMulation Workbench I/O License
- ◆ **CX-CBL-HS1-F-01**  
68 pin I/O Card Interface Cable, 1m
- ◆ **CX-CBL-HS1-F-02**  
68 pin I/O Card Interface Cable, 2m
- ◆ **CX-CBL-HS1-F-03**  
68 pin I/O Card Interface Cable, 3m
- ◆ **CX-CBL-AIO-BRKF**  
I/O terminal Breakout Module



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