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IEEE-1394b PCI Express® Card

FWB-PCIE-XX

POINT GREY

- **LSI Logic® PCIe 1394b Link/PHY chip**
- **Two 800Mb/s 1394b locking ports**
- **Supports 160MB/s data transfer†**
- **Acquire images from up to 16 cameras†**



Part Number
FWB-PCIE-01/02

FIREPRO™

The FirePRO™ IEEE-1394b low profile PCI Express card designed and manufactured by Point Grey Research is ideal for multiple camera arrays or high data rate applications that require fast and reliable data transfers into the host system.

Users can choose between a single or dual bus option. The dual bus option allows simultaneous image acquisition from up to 16 cameras, and total data throughput of 160MB/s, using a single card. The FWB-PCIE effectively leverages the x1 PCIe serial link to increase throughput and minimize latency, and deep isochronous FIFO's minimize the possibilities of data loss due to overflows.

Each card includes a standard size PCIe mounting bracket, low profile PCIe mounting bracket, two (2) bilingual 1394b ports with locking screw connection, and internal power connector.

FEATURES

- Two (2) bilingual 1394b 9-pin ports with locking screw holes
- Supports 100, 200, 400 and 800Mb/s transfer rates
- Single lane (x1) PCI Express serial link for 2.5Gb/s burst rates
- LSI Logic (Agere) FW643 PCI Express 1394b link/PHY chip
- Single or dual chip (bus) configurations available
- Eight (8) isochronous transmit/receive contexts per chip
- Deep 8 Kbyte isochronous transmit/receive FIFO's
- Complies with PCIe 1.1 and 1394 OHCI draft 1.2
- Backward compatible with 1394-1995 and 1394a-2000
- Internal IDE 4-pin DC power connector
- Plug and play for automatic device driver installation
- RoHS, FCC and CE compliant

PART NUMBERS

- FWB-PCIE-01: single bus
- FWB-PCIE-02: dual bus

† FWB-PCIE-02 dual bus model only

COMPATIBILITY

- All Point Grey 1394 camera products
- All Point Grey FirePRO™ products
- Microsoft Windows XP/2003/Vista, Linux, Macintosh OS X

SAMPLE CONFIGURATION

12 cameras streaming 160MB/s image data into a single card

- Grasshoppers on the same 1394 bus auto sync
- MultiSync software syncs cameras across multiple buses



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