PCIe-FIW62

2-CH PCI Express® IEEE 1394b Frame Grabber

Introduction

The PCIe-FIW62 is an IEEE 1394b (FireWire 800) interface card which provides 2 high-speed FireWire 800 ports with data transfer rates up to 800 Mb/s on a PCI Express® x1 lane. The PCIe-FIW62 provides two direct-connect IEEE 1394b connectors with a screw-lock mechanism. These screw-lock connectors provide a reliable connection between PCIe-FIW62 and up to two IEEE 1394b cameras.

A 4-pin ATX power connector on the PCIe-FIW62 supports IEEE 1394b cameras that draw power directly from the frame grabber. Each port has a green LED on the front panel that will illuminate when the PCIe-FIW62 is connected to a IEEE 1394b camera for convenient identification of channel connection status.

IEEE 1394b

The IEEE 1394 and IIDC (DCAM) protocol, developed by the 1394 Trade Association are currently widely used for machine vision, IEEE 1394 standard, and IIDC protocol define the transmission mechanism, and communication specification, such as the image stream format.

Benefits of IEEE 1394b

- Easy maintenance, "plug-and-play" operation
- Reduced wiring, powered over cable capable
- Less CPU overhead, DMA (Direct Memory Access) to host PC memory
- Multiple devices connection, multiple devices connection via the networked architecture

Features

- **PCI Express® x1 compliant**
- **2-CH IEEE 1394b (FireWire 800) ports**
- **High-speed image transfer rates up to 800 Mb/s**
- **Industrial screw lock connector**
- **Channel status LEDs**
- **Power supplied to the IEEE 1394b connectors**

Applications

- **Machine vision inspection systems**
- **Automatic optical inspection machineries**
- **Scientific research instrumentations**
- **Medical research instrumentations**

Software Support

- Windows® Platform
  - Available for Windows® Vista (32-bit)/XP

Ordering Information

- **PCIe-FIW62**
  2-CH PCI Express® x1 IEEE 1394b interface card

Accessories

Cabling

- 1394b Cable
  4.5 M IEEE 1394b 9-pin cable with screw-lock connector

Specifications

Video Input	Differential signals
	IEEE 1394b 9-pin connector
Form Factor	Half length PCI Express® x1 compliant
Dimension	78.6 x 111.15 mm (W x L)
Power Consumption	0.22 A @ +3.3 V
	Power provided to IEEE 1394 connection, 1 A @ +12 V / per port (over current protection)