PCIe-FIW64/PCIe-FIW62

4-CH / 2-CH PCI Express® IEEE 1394b Frame Grabbers



PCIe-FIW62



PCIe-FIW64



Introduction

The PCIe-FIW64/PCIe-FIW62 are IEEE 1394b (FireWire 800) frame grabbers designed for high speed computer-based machine vision applications. The PCIe-FIW64/PCIe-FIW62 support up to four 1394b (FireWire 800) ports for multiple 1394b device connections with data transfer rates up to 3.2 Gb/s, as found with most IEEE 1394b cameras.

The PCIe-FIW64/PCIe-FIW62 provide four/two direct-connect IEEE 1394b connectors with a screw-lock mechanism. These screw-lock connectors provide a reliable connection between PCIe-FIW64/PCIe-FIW62 and up to four IEEE 1394b cameras.

A 4-pin ATX power connector on the PCIe-FIW64/PCIe-FIW62 support IEEE 1394b cameras that draw power directly from the frame grabbers. Each port has a green LED on the front panel that will illuminate when the PCIe-FIW64/PCIe-FIW62 are connected to a IEEE 1394b camera for convenient identification of channel connection status.

The PCIe-FIW64 provides four isolated digital inputs and outputs to connect to external devices such a position sensor. The PCIe-FIW64 also includes four isolated programmable trigger output pulses to manage trigger events such as activating a strobe light.

Features

- Industrial screw lock connector
- Channel status LEDs
- Power supplied to the IEEE 1394b connectors

FIW64

- PCI Express® x4 compliant
- High-speed image transfer rates up to 3.2 Gbps
- Four isolated digital inputs/outputs
- Four isolated TTL level programmable trigger output pulses

FIW62

- PCI Express® x1 compliant
- High-speed image transfer rates up to 800 Mb/s

Applications

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

Software Support

OS Information

- Windows® 8/7/XP

Ordering Information

PCIe-FIW64
4-CH PCI Express® x4 IEEE 1394b frame grabber

PCIe-FIW62
2-CH PCI Express® x1 IEEE 1394b frame grabber

Specifications

	PCIe-FIW64	PCIe-FIW62
Form Factor	PCI Express® x4 compliant	PCI Express® x1 compliant
IEEE 1394b Port	Fully support provisions of IEEE P1394b-2002 Fully compliant with provisions of IEEE std 1394-1995 for a high performance serial bus and IEEE std 1394a- 2000	
Operating Environment	Temperature: 0°C to +55°C (32°F to 131°F) Humidity: 5% to 90%	
Storage Environment	Temperature: -20°C to +85°C (-4°F to 185°F) Humidity: 0 to 95% RHNC	
Digital and Trigger I/Os	Four isolated digital inputs/outputs Four isolated trigger inputs/outputs	-
Power Requirements	+12 V max @ 0.2 A +3.3 V max @ 2.5 A	+3.3 V max @ 0.22 A Power provided to IEEE 1394 connection +12 V / per port, 1 A (over current protection)
Isolated Voltage	1000 V @ 60 seconds	-
Dimensions	129.5 mm x 111.15 mm (5.05" x 4.33") (W x L)	78.6 mm x 111.15 mm (3.06" x 4.33") (W x L)

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