

# FIW64 / FIW62

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



FIW62

FIW64



### Introduction

The FIW64 / FIW62 are IEEE 1394b (FireWire 800) interface cards designed for high speed computer-based machine vision applications. The FIW64 / 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 FIW64 / FIW62 provide four/two direct-connect IEEE 1394b connectors with a screw-lock mechanism. These screw-lock connectors provide a reliable connection between FIW64 / FIW62 and up to four IEEE 1394b cameras.

A 4-pin ATX power connector on the FIW64 / 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 FIW64 / FIW62 are connected to a IEEE 1394b camera for convenient identification of channel connection status.

The FIW64 provides four isolated digital inputs and outputs to connect to external devices such a position sensor. The 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

#### Windows® Platform

- Available for Windows® XP/Vista/Server 2008

### Ordering Information

#### FIW64

4-CH PCI Express® x4 IEEE 1394b interface card

#### 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

	FIW64	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 Humidity: 5% to 90%	
Storage Environment	Temperature: -20°C to +85°C Humidity: 0 to 95% RHNC	
Power Requirements	Four isolated digital inputs/outputs Four isolated trigger inputs/outputs	-
Digital and Trigger I/Os	+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 x 111.15 mm (W x L)	78.6 x 111.15 mm (W x L)