PCIe-FIW64

4-CH PCI Express IEEE-1394b Frame Grabber :•





◯ Overview

The PCIe-FIW64 is IEEE 1394b (FireWire 800) interface card designed for high speed computer-based machine vision application. The PCIe-FIW64 supports four 1394b (FireWire 800) ports for multiple1394b device connections with data transfer rates up to 800 Mb/s, like most of the IEEE 1394b cameras.

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

► Yeatures ■

- PCI Express x4 compliant
- High-speed image transfer rates up to 800 Mb/s
- Provides industrial screw lock connector
- Status LED for channel activation
- Four isolation digital inputs/outputs
- Four isolation TTL level programmable trigger output pulses

≥ Software Support

Supports Windows Vista32/XP/XP embedded

Ordering Information —

PCIe-FIW64	4-CH PCI Express x4 IEEE 1394.b interface card
1394.b Cable	5-meter IEEE 1394.b 9-pin cable with screw-lock connector

Specifications

IEEE1394b Port

Four IEEE1394b fully compliant cable ports at 100 Mbits/s, 200 Mbits/s, 400 Mbits/s, and 800 Mbits/s.

Fully supports 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.

Digital and Trigger I/Os

Four isolated digital inputs

Four isolated digital outputs

Four isolated trigger Inputs

Four isolated trigger Outputs

Isolated Voltage

Rated isolation voltage: 1000 V @ 60 seconds

Form Factor

x4 PCI-express interface (PCI Express Base Specification, Revision 1.1 compliant)

Dimensions

W x L: 129.5 x 111.15 mm

Operating Environment

Temperature: 0 to 55°C Humidity: 5 to 90% RHNC

Storage Environment

Temperature: 0 to 85°C Humidity: 0 to 95% RHNC

Power Requirements

+12 V max, 200 mA +3.3 V max, 2.5 A

I/O. and trigger

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Function	Electronic specification	
Isolated Digital Input	Photo Coupled Input x 4 ch	
Input voltage range	0 to 25V	
Low level	0 to 0.5V	
High Level	2 to 25V	
Isolated Digital Output	Photo Coupled Output x 4 ch	
Load voltage range	3 to 24V	
Output sink current	80mA (Max)	
Output voltage drop	1.0V (Max)	
Leak current	0.1mA (Max)	
Reverse voltage	-6V	
Isolated Trigger Input	Photo Coupled Trigger input x 4 ch	
Input voltage range	0 to 25V	
Low level	0 to 0.5V	
High level	2.4 to 25V	
Polarity	Positive / Negative Selectable	
Minimum pulse width	0.1msec	
Isolated Trigger out	Photo Coupled Trigger output x 4 ch	
Load voltage range	0 to 5V	
Output sink current	40mA (Max)	
Output voltage drop	0.4V Max(@16mA)	
Trigger Out Control		
Trigger delay	Omsec to 1000msec selectable (1msec step.)	
Trigger out pulse width	0.1msec to 50msec selectable (0.1msec step)	
Polarity	Positive / Negative Selectable	
Enable Control	Enable/Disable	