

Image Acquisition from GigE Vision Cameras

NI PCIe-8231 **NEW!**

- 1-port Gigabit Ethernet controller
- Up to 100 MB/s data transfer rates
- Optimized for low CPU load

Operating Systems

- Windows XP/2000

Recommended Software

- LabVIEW
- Vision Development Module
- Vision Builder AI

Driver Software (included)

- Vision Acquisition

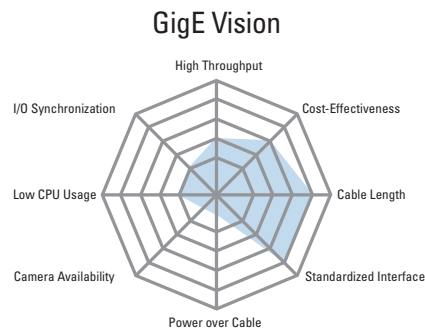


Overview

GigE VISION™ Get the most performance from your GigE Vision camera with the National Instruments PCIe-8231, a Gigabit Ethernet interface device based on an Intel 82572EI Gigabit controller. NI Vision Acquisition software is highly optimized for this controller and the resulting CPU usage is extremely low. With its PCI Express x1 interface, the NI PCIe-8231 is able to acquire images from the fastest GigE Vision cameras.

GigE Vision Image Acquisition

GigE Vision is a new interface standard for cameras that transmit images over Gigabit Ethernet. GigE Vision provides an alternative for vision applications requiring long cable distances or lower-cost cabling. While the cabling is simpler, a separate cable is required to supply power to the camera. Vision Acquisition software works with any Gigabit Ethernet controller, but is highly optimized for Intel Gigabit Ethernet controllers.



Specifications

These specifications are typical at 25 °C, unless otherwise stated.

General

Number of ports	1
IEEE Standard 802.3z network topology..	1000BaseT

Cabling

Connector	RJ45
Wiring.....	CAT5 UTP, 4 pair
Length.....	100 m

Ethernet

Controller processor.....	Intel 82572EI
Data rates	1 Gb/s

Computer Bus

Bus type	PCI Express 1.0a
Bus width	x1 lane PCI Express
Bus speed.....	2.5 Gb/s unidirectional 5.0 Gb/s bidirectional

Power Requirement

3.3 VDC	1.0 A, 3.3 W
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Physical

Dimensions.....	12.9 by 12.0 cm (5.1 by 4.73 in.)
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Environment

Operating temperature	0 to 55 °C
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Ordering Information

NI PCIe-8231	779813-01
Includes Vision Acquisition software.	

BUY NOW!

For complete product specifications, pricing, and accessory information, call 800 813 3693 (U.S.) or go to ni.com/vision.

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