

Image Acquisition from GigE Vision Cameras

NI PCIe-8231, NI PCIe-8235, NI PXIe-8234 **NEW!**

- Gigabit Ethernet controllers
- Up to 100 MB/s transfer rates per port
- Optimized for low CPU load

Operating Systems

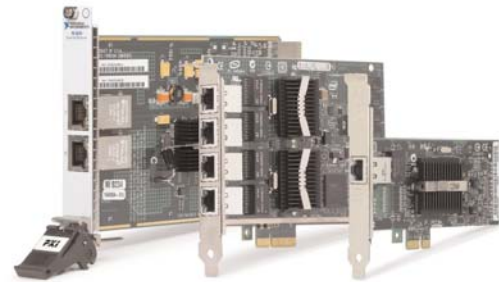
- Windows Vista/XP/2000

Recommended Software

- LabVIEW
- Vision Development Module
- Vision Builder for Automated Inspection (AI)

Driver Software (included)

- NI Vision Acquisition



Overview

GigE VISION™ Get the most performance from your GigE Vision camera with National Instruments GigE Vision interfaces, including the NI PCIe-8231 one-port interface, the NI PCIe-8235 four-port interface, and the NI PXIe-8234 two-port interface. NI Vision Acquisition software is highly optimized for these controllers and the resulting CPU usage for acquiring images from them is extremely low. With their PCI Express-based interfaces, these devices provide full GigE Vision bandwidth at every port, giving you the bandwidth you need for your most demanding vision applications.

GigE Vision Image Acquisition

GigE Vision is a new interface standard for cameras that transmit images over gigabit Ethernet. It 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. NI Vision Acquisition software works with any gigabit Ethernet controller but is highly optimized for Intel gigabit Ethernet controllers.

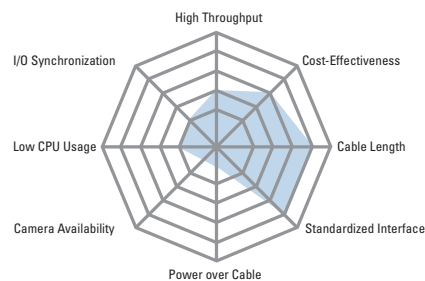
Ordering Information

NI PCIe-8231 (1-port PCI Express board)	779813-01
NI PCIe-8235 (4-port PCI Express board)	780400-01
NI PXIe-8234 (2-port PXI Express module).....	780263-01
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.

GigE Vision



Specifications

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

General

Number of ports	1
IEEE Standard 802.3z network topology..	1000Base-T

Cabling

Connector	RJ45
Wiring.....	CAT 5 UTP, 4 pair
Length.....	up to 100 m

Ethernet

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

Power Requirement

3.3 VDC	1.0 A, 3.3 W
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Physical

Dimensions	
NI PCIe-8231	12.9 by 12.0 cm (5.1 by 4.73 in.)
NI PCIe-8235	12.9 by 12.0 cm (5.1 by 4.725 in.)
NI PXIe-8234	10.0 by 16.0 cm (3.9 by 6.3 in.)

Environment

Operating temperature	0 to 55 °C
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NI Services and Support



NI has the services and support to meet your needs around the globe and through the application life cycle – from planning and development through deployment and ongoing maintenance. We offer services and service levels to meet customer requirements in research, design, validation, and manufacturing. Visit ni.com/services.

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Hardware Services

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NI Factory Installation Services (FIS) is the fastest and easiest way to use your PXI or PXI/SCXI combination systems right out of the box. Trained NI technicians install the software and hardware and configure the system to your specifications. NI extends the standard warranty by one year on hardware components (controllers, chassis, modules) purchased with FIS. To use FIS, simply configure your system online with ni.com/pxiadvisor.

Calibration Services

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