

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

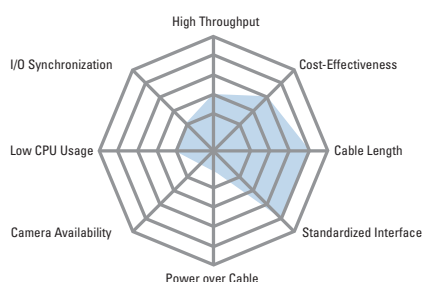


Get the most performance from your GigE Vision camera with National Instruments GigE Vision interfaces, including the NI PCIe-8231 one-port interface, the NI PCIe-8235 four-port interface, and the NI PXIe-8234 two-port interface. NI Vision Acquisition software is highly optimized for these controllers 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.

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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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.

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