IEEE 1394 Interfaces for PCI and PXI/CompactPCI

NI PCI-8252, NI PXI-8252

- 3 IEEE-1394a (FireWire) ports
- OHCI v1.0 compliant
- Up to 400 Mb/s of data transfer
- Up to 12 W of power for 1394 devices
- Ideal for image acquisition from IEEE-1394 cameras

Operating Systems • Windows 2000/XP/Me/98

Recommended Software • LabVIEW

Measurement Studio
Driver Software

• NI-IMAQ for IEEE 1394



Overview

The National Instruments 8252 devices are OHCI compliant IEEE 1394a interfaces that run natively in Windows 2000/XP/Me/98. The IEEE 1394a standard offers up to 400 Mb/s bandwidth. Three direct-connect IEEE 1394 ports are provided, but more 1394 devices can be added with the addition of IEEE 1394 hubs. An important application of these devices is collection of images from IEEE 1394 cameras.

NI-IMAQ for IEEE 1394

NI-IMAQ for IEEE 1394 offers a mobile, easy-to-use solution for acquiring images from IEEE 1394 cameras. The driver software integrates with NI Measurement & Automation Explorer, so you can easily configure your camera. You can also quickly set up your system by connecting a FireWire camera to your computer and immediately begin acquiring images. With a set of easy-to-use programs, you can quickly create applications in LabVIEW or Measurement Studio, by creating VIs or directly accessing the C library functions.

NI–IMAQ for IEEE 1394 cameras is compatible with IIDCcompliant cameras that output noncompressed video data. You can connect a maximum of 16 cameras up to your system and acquire from each one. Advanced functionality includes the ability to query the camera for on board parameters and programmatic parameter changing on the fly.

cam1 : sony dfw-sx900 Properties 🛛 🔋 🗙		
Description Video Parameters	s Features	
Description Video Parameter: Features Auto-Exposure Sharpness White Balance U White Balance V Hue Saturation Gama Shutter Speed Gain Pan	Features Auto One Push O	
OK Cancel	= 255 128 	



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Specifications-

Performance

...... IEEE 1394a-1995, S100, S200, S400 transfer rates (Actual 1394 transfer rates are system dependent)

Power Requirements (maximum)

PCI		
Supply Voltage (V)	Supply Current (mA)	
5	7	
12	60	

PXI		
Supply Voltage (V)	Supply Current	
3.3	315 mA	
5	1.8 A	
12	400 mA	

Physical

Dimensions	
PCI	7.2 by 12 cm (2.8 by 4.8 in.)
PXI	10.0 by 16.0 cm (3.9 by 6.3 in.)
IO Connectors	Standard IEEE 1394 Female, 6-pin (3)

Operating Environment Ambient Temperature Relative Humidity	0 to 55°C 10 to 90%, noncondensing
1394 Bus Power PCI	
Total power available	12 W
Maximum power per port	9.6 W
PXI	
Total power available	12 W
Maximum power per port	12 W
Storage Environment – PCI	
Ambient Temperature	0 to 55ºC
Relative Humidity	10 to 90%, noncondensing
Storage Environment – PXI	
Ambient Temperature	-20 to 70ºC
Relative Humidity	5 to 95%, noncondensing

For safety and EMC/EMI compliance specifications, please refer to the Declaration of Conformity at ni.com.

Ordering Information

NI PCI-8252 and NI-IMAQ for IEEE-1394	779024-01
NI PXI-8252	778925-01
NI PXI-8252 and NI-IMAQ for IEEE-1394	778926-01
NI-IMAQ for IEEE 1394	778413-01

BUY ONLINE!

Visit ni.com/info and enter pxi8252.

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We also offer service programs that provide automatic upgrades to your application development environment and higher levels of technical support. Visit ni.com/ssp.

Hardware Services NI Factory Installation Services

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

NI recognizes the need to maintain properly calibrated devices for high-accuracy measurements. We provide manual calibration procedures, services to recalibrate your products, and automated calibration software specifically designed for use by metrology laboratories. Visit ni.com/calibration.

Repair and Extended Warranty

NI provides complete repair services for our products. Express repair and advance replacement services are also available. We offer extended warranties to help you meet project life-cycle requirements. Visit **ni.com/services**.



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