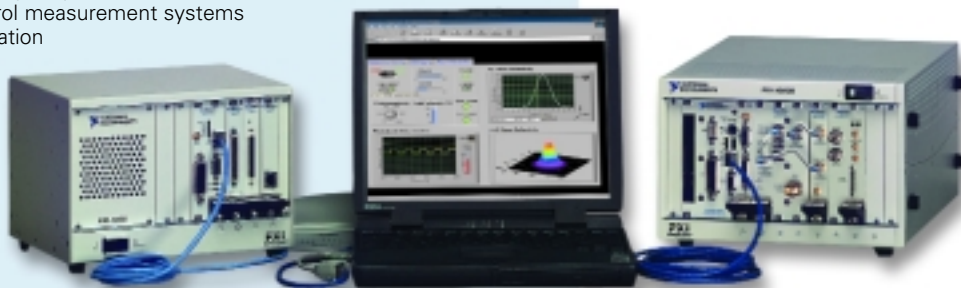


Ethernet Control of PXI

PXI Network System Controller

- Control PXI systems remotely
- Serve data on the Internet
- Distribute processing to multiple systems
- Remotely monitor and control measurement systems
- Standalone embedded operation

NEW


Overview

The Network System Controller is ideal for Ethernet-based measurement systems that are controlled remotely, publish data, or are accessed over a network from one or more desktop or laptop PCs. With National Instruments PXI Network System Controllers, you can use standard Ethernet-based network technology to easily create simple point-to-point measurement applications or distributed measurement applications requiring multiple measurement and control nodes. The Network System Controllers consist of PXI embedded controllers with LabVIEW or LabVIEW Real-Time software. LabVIEW and LabVIEW Real-Time have built-in functionality for easily building and deploying networked measurement applications.

Serve Data on the Internet

PXI embedded controllers with LabVIEW or LabVIEW Real-Time incorporate network technologies such as Ethernet, HTML, and the Internet, so you can bring the benefits of networks to your application. The Network system controllers provide Web-enabling technologies for your applications with advanced Internet requirements. You can view and control your measurement application using the Internet from any location in the world. Using a Network System Controller, you can publish data on the Web easily. The DataSocket capability in

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LabVIEW and LabVIEW Real-Time enables you to communicate with different servers such as HTTP, FTP, OPC, and the DataSocket server. You can send data to another computer or PXI controller on a network or currently acquired data on another measurement node. You can publish your data anywhere in the world using the Network System Controller.

Distributed Processing

For measurement systems that require a substantial amount of processing power, you can divide your measurement system among several PXI embedded controllers. The VI Server capability in LabVIEW ensures easy implementation of distributed systems. Using LabVIEW or LabVIEW Real-Time, you can create applications that can run independently in each PXI node, or as a part of an integrated network solution.

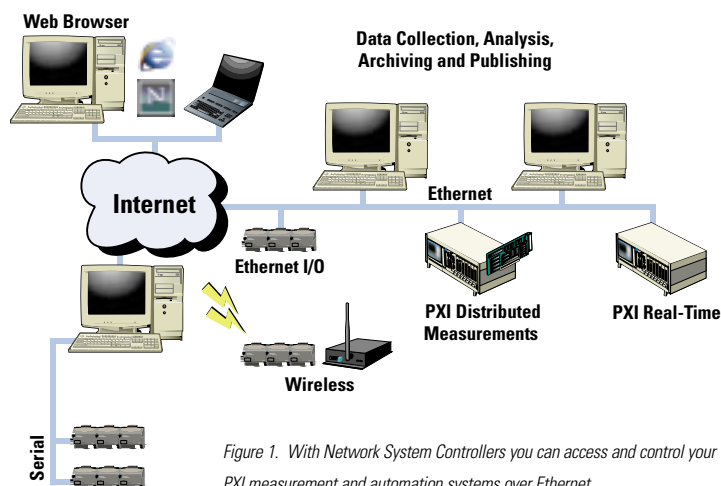


Figure 1. With Network System Controllers you can access and control your PXI measurement and automation systems over Ethernet.

Ethernet Control of PXI

Remote Control of Measurement Systems

You can use the Network System Controller as a remote measurement system controlled via Ethernet. Using the Network System Controller, you can control data acquisition or instrument stations that are on your desktop, in remote regions, or in inaccessible and hazardous areas. LabVIEW and LabVIEW Real-Time

easily enable the network control of remote measurement stations. LabVIEW Remote Panels can be used to view and control any running VI over a network without additional programming. Also, you can use LabVIEW VI server to programmatically control VIs on a remote measurement station from a client PC.

Ordering Information

Windows-based options

Step 1. Controller Model – Select one of the following configurations.

NI 8176 1.26 GHz Pentium III with Windows 2000 (English)	778468-01
NI 8175 866 MHz Pentium III with Windows 2000 (English)	778467-01
NI 8174 566 MHz Celeron with Windows 2000 (English)	778466-01

*Contact National Instruments or visit ni.com/pxiadvisor for the latest processors and operating systems, including Windows 2000 in Japanese, and other languages.

Step 2. NI Factory Installation Services – Select one of the following (required for Step 4).

PXI Systems	960596-01
PXI/SCXI Combo Systems	960596-04

Step 3. Memory Upgrades – The NI 8176 and NI 8175 embedded controllers come with 128 MB of memory installed, and the NI 8174 embedded controller comes with 64 MB of memory installed. If you want to upgrade your memory, select the amount of memory.

256 MB SDRAM	778469-256
512 MB SDRAM	778469-512

Step 4. Installed LabVIEW Application Software

LabVIEW Full Development System for Windows (English**)	776670-03
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**LabVIEW is also available in German, French, and Japanese.

Contact National Instruments for more information.

Step 5. Accessories – Add the following accessories or, for additional peripheral modules, refer to the Bus Interfaces section of the print catalog starting on page 167.

External USB CD-ROM – Add on for easy software installation and upgrades

USB CD-ROM	778492-01
Parallel port converter cable – add to convert from Type C 36-position miniconnector to DB-25 25-position standard connector (15.2 cm).	
IEEE 1284 parallel port adapter cable	182873-06

LabVIEW Real-Time options

Step 1. Controller Model – Select one of the following models:

NI 8176 RT (no operating system installed)	778468-33
NI 8175 RT (no operating system installed)	778467-33

Step 2. Memory Upgrades – If you want to upgrade your memory, select one or more of the following options:

256 MB SDRAM	778469-256
512 MB SDRAM	778469-512

Step 3. NI Factory Installation Service – If you need a ready-to-use system with all the individual pieces of your system installed and configured, select one of the following installation options:

PXI Systems	960596-01
PXI/SCXI Combination Systems	960596-04

Step 4. NI Application Development Tools – You can develop and deploy real-time applications using the LabVIEW Real-Time Module with either the LabVIEW Professional Development System or LabVIEW Full Development System. To receive your copy of these tools, select from the following:

LabVIEW Real-Time Module	777844-03
LabVIEW Professional Development System	776678-03
LabVIEW Full Development System	776670-03