

SET UP YOUR PXI-MXI-3™ SYSTEM

1. Install Your Software

Your PXI-MXI-3 kit includes a setup program for the Microsoft Windows operating system. The setup program works the same way for Windows 2000/NT/XP/Me/9x. Users of other operating systems can ignore this section.



Note The software included for Microsoft Windows optimizes National Instruments PXI module performance across a PCI-PCI bridge. The software does not affect PXI or CompactPCI modules from other vendors.

The setup program is an interactive application that installs the MXI-3 software and configures your system for use with the MXI-3 boards. Follow these steps to perform the installation.



Note You can quit the setup program at any time by choosing the **Cancel** option.

1. Insert the disk labeled *MXI-3 Software for Windows*.
2. Select **Start»Run** and type the following text (where *x* is the drive letter of your floppy drive):
`X:\setup.exe`
3. Press <Enter>.
4. Click on the **Next** button at the **Welcome** screen to start the installation. You must accept the license agreement to enable installation.
5. The setup program now copies the necessary files to your hard drive. When the installation process is complete, you must reboot your computer for the changes to take effect.
6. Review the information in the README.TXT file for the most up-to-date information on your MXI-3 board.

2a. Set Up Your PC-to-PXI/CompactPCI Chassis System

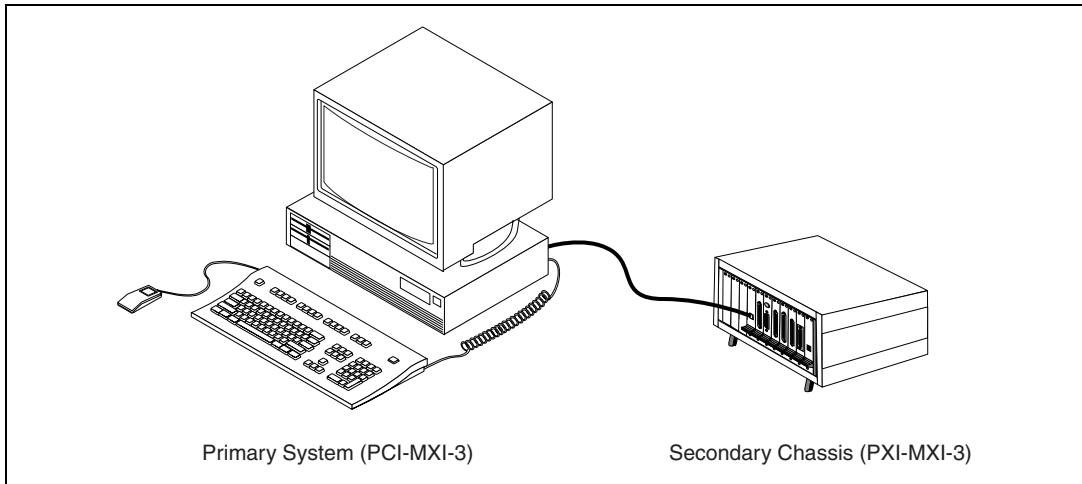


Figure 1. PC-to-PXI/CompactPCI Configuration

To install the hardware in a PC-to-PXI/CompactPCI configuration, follow these steps:

1. Power off the system before installing your hardware.
2. In the primary system (PC), install a PCI-MXI-3 in any slot.
3. Remove the protective caps from the board and cable connectors.
4. In the secondary PXI/CompactPCI chassis, install a PXI-MXI-3 in Slot 1.
5. Connect the cable to the PC and chassis.
6. Power on the secondary chassis and then the PC. When daisy-chaining MXI-3 controllers, power on the chassis starting with the chassis furthest from the host controller.



Note On some Windows systems, the OS detects the MXI-3 interface as a “PCI Standard PCI-to-PCI Bridge,” and Windows may ask you to specify the location of a device driver information (.inf) file. If this occurs, accept the default choices by clicking **Next** when prompted.

2b. Set Up Your Multichassis System

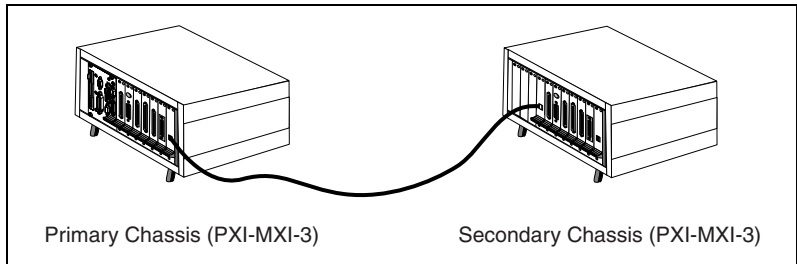


Figure 2. Multichassis (PXI/CompactPCI-to-PXI/CompactPCI) Configuration

To install the hardware in a multichassis (PXI/CompactPCI-to-PXI/CompactPCI) configuration, follow these steps:

1. Power off the system before installing your hardware.
2. Remove the protective caps from the board and cable connectors.
3. In the primary PXI/CompactPCI chassis, install a PXI-MXI-3 in any slot except Slot 1.
4. In the secondary PXI/CompactPCI chassis, install a PXI-MXI-3 in Slot 1.
5. Connect the cable to the chassis.
6. Power on the secondary chassis and then the primary chassis. When daisy-chaining MXI-3 controllers, power on the chassis starting with the chassis furthest from the host controller.



Note On some Windows systems, the OS detects the MXI-3 interface as a “PCI Standard PCI-to-PCI Bridge,” and Windows may ask you to specify the location of a device driver information (.inf) file. If this occurs, accept the default choices by clicking **Next** when prompted.

Troubleshooting Your System

What if the computer does not boot?

If the computer does not boot, try these possible solutions:

- Be sure the MXI-3 boards are properly seated and placed in the proper slots.
- Be sure the cable ends are fully inserted into the MXI-3 board connectors. The MXI-3 link light should stay on continuously while the system is powered on. If the LED flashes at any time, the link has been lost, possibly due to a loose connection.

- Remove all PXI devices from the chassis and reboot. (Windows XP users should not attempt this solution, as it causes the PC to crash with a blue screen. See the following question.)

Why does my computer crash with a blue screen in Windows XP with just the MXI-3 kit and a chassis connected?

Windows XP expects your MXI-3 kit to connect your computer to a chassis containing PXI/CompactPCI devices. Windows XP crashes if no such devices are present, so do *not* connect your Windows XP computer to an empty chassis using MXI-3. If you remove your devices to troubleshoot your system, leave at least one PXI/CompactPCI device in the chassis while troubleshooting. (This behavior may change in future versions of Windows XP.)

What if MXI-3 is not detected in the system?

The MXI-3 optimization software uses a pop-up box to report that the MXI-3 was not detected. If this happens, try these possible solutions:

- Be sure to power on the chassis in the proper sequence. When daisy-chaining MXI-3 controllers, power on the chassis in reverse order, starting with the chassis furthest from the host controller.
- Be sure the cable ends are fully inserted in the MXI-3 board connectors. The MXI-3 link light should stay on continuously while the system is powered on. If the LED flashes at any time, the link has been lost, possibly due to a loose connection.

What if the PXI/CompactPCI boards are not detected?

If the PXI/CompactPCI boards are not detected, try these possible solutions:

- If the boards in the chassis do not appear in MAX, refresh the screen (press <F5>). If the boards in the chassis still do not appear, check the Device Manager. Delete any Unknown Devices with yellow question marks next to them, and select **Scan for Hardware Changes** or **Refresh** in the Device Manager.
- If you can see a device in the Device Manager, but it is not working or the driver is not detecting it, refer to the device documentation. It may be helpful to remove working devices during troubleshooting.



Note For more information, see the *PXI-PCI 8330 Series User Manual* or the PXI support section of the National Instruments Web site at ni.com/support/pxisupp.htm.



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