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USING THE PXI™-8150B AND PXI-8170 SERIES CONTROLLERS IN THE PXI-1025 CHASSIS

This document describes how to set up your PXI-8150B or PXI-8170 series controller card in a PXI-1025 chassis.

Using the PXI-8150B in a PXI-1025 Chassis

Note Before getting started, you must have an external VGA monitor. If your PXI controller came with Windows NT, you must have access to a PC with Windows 98/95 installed to create a boot disk.

Step 1. Set the LCD Display Resolution and Mouse Routing

Set the LCD display resolution on your controller to 800 × 600 by removing a hardware jumper. Refer to Figure 1 to remove the jumper from location W17. Set the mouse routing to internal connection by sliding the two switches (S1 and S2) away from the front panel of the controller. As the switches are shown in Figure 1, slide them to the right.

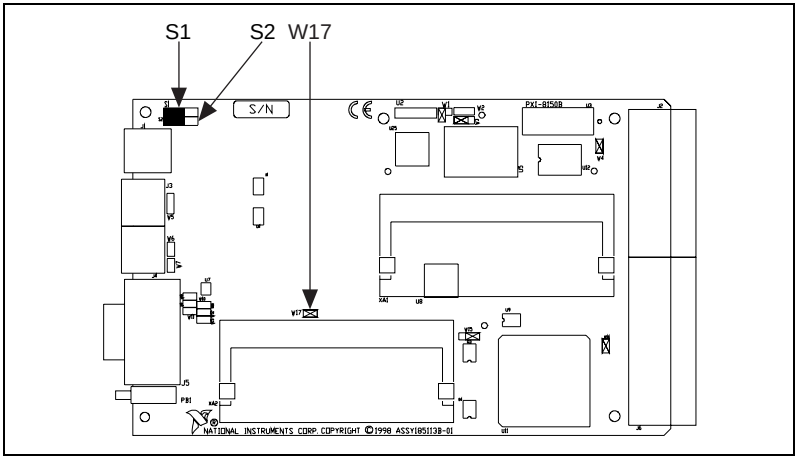


Figure 1. Switches and Jumper Used for PXI-1025 Setup on a PXI-8150B Series CPU Board

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Step 2. Update the Controller BIOS to Route the Video Signals to the LCD Display

This step includes four substeps: creating a boot disk, copying the BIOS update files to your newly created boot disk, setting the controller boot sequence to boot from the floppy drive, and setting the BIOS to enable the LCD signals.

Step 2a. Create a Boot Disk

You can use any PC with Windows 98/95 installed, or use your PXI-8150B Series controller with Windows 98 installed to create the boot disk. If you want to use your PXI controller, insert it into Slot 1 of your chassis and connect it to an external monitor to create the boot disk. If your PXI controller has Windows NT, you cannot use it to create the Windows 98/95 boot disk; you must use another PC.

1. Power on your PC or PXI system. If this is the first time you boot your PXI controller, follow the instructions on the screen to register your operating system and to register any installed software options.
2. Double-click the **My Computer** icon on your Windows desktop.
3. Right-click the **Floppy (A:)** icon.
4. Select **Format** from the pop-up menu.
5. Select **Copy system files only**.
6. Insert a floppy disk into your floppy drive and click the **Start** button. This creates your boot disk.

Step 2b. Copy BIOS Update Files to Boot Disk

Copy the entire contents of the floppy disk labeled *PXI-8150B Update Files for Use With a PXI-1020/1025 Chassis*, which is included with your controller, to the root directory of the boot disk.

Step 2c. Set the Controller Boot Sequence to Boot from the Floppy Drive

1. Insert your controller into Slot 1 of your PXI-1025 chassis and connect an external monitor to the VGA port.
2. Insert the boot disk into the floppy drive of your PXI controller.
3. Enter into the CMOS Setup Utility by turning on your PXI system and pressing the <Delete> key during boot-up.

4. From the main CMOS Setup Utility screen, select **BIOS FEATURES SETUP** using the arrow keys and then press the <Enter> key.
5. In the **BIOS FEATURES SETUP** screen, use the arrow keys to highlight the boot sequence entry and change it to `A,C,SCSI` by pressing the <Page Up> key.
6. Press the <Esc> key once to return to the main CMOS Setup Utility Screen and then press the <F10> key to save and exit. Reply to the prompt by typing `Y` to confirm saving the new CMOS settings.
7. Your controller will now boot from the floppy drive.

Step 2d. Set the Controller BIOS to Enable the LCD Signals

1. Follow the instructions on the screen to update the FLASH BIOS to enable the LCD function.
2. Power off the system.
3. Remove the floppy disk from the floppy drive.
4. Reboot the system with the external monitor still connected. If this is the first time you boot your PXI controller from the hard disk, follow the instructions on the screen to register your operating system and to register any installed software options.
5. Select **Start»Control Panel»Display** to **s**et the display resolution to 800×600.
6. Shut down Windows and power off your PXI-1025 chassis.
7. Remove the VGA cable from the PXI controller.
8. Reboot the system and verify that your LCD is working.

Using the PXI-8170 Series in a PXI-1025 Chassis

Step 1. Set the LCD Display Resolution and Mouse Routing

As shown in Figure 2, set the following switches:

1. Set switch S1 to set the keyboard for internal connection.
2. Set switch S2 to set the mouse routing for internal connection.
3. Set switch S3 to set the LCD display resolution to 600 × 800.

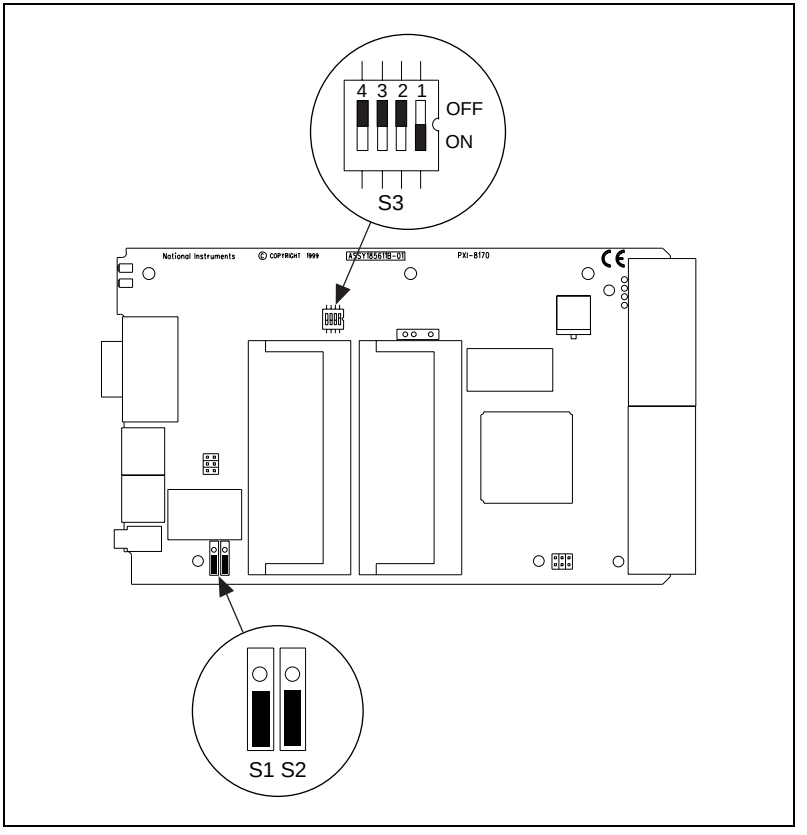


Figure 2. Switch Settings for PXI-1025 Setup on a PXI-8170 Series CPU Board

Step 2. BIOS Setup for LCD Support

1. Insert your controller into Slot 1 of your PXI-1025 chassis and connect an external monitor to the VGA port.
2. Enter into the CMOS Setup Utility by turning on your PXI system and pressing the <Delete> key during boot-up.
3. From the main CMOS Setup Utility screen, select **Standard CMOS Setup** using the arrow keys and then press the <Enter> key.
4. Select one of the following options from the **LCD & CRT** menu item:
   - **CRT**—Just prior to the OS loading, only the CRT Display will be enabled.
   - **LCD**—Just prior to the OS loading, only the LCD Display will be enabled.
   - **Both**—Both the CRT and LCD Displays are always enabled.
   - **Auto**—If a CRT is connected to the controller at boot, only the CRT is enabled. If a CRT is not connected at boot, only the LCD is enabled.



Note During the initial boot process, both the LCD and CRT displays are enabled.

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