

Introduction

This document explains how to install and use the Adaptec SlimSCSI® - the Universal SCSI Connection (model APA™-1460A). The SlimSCSI PC Card-to-SCSI adapter allows you to easily connect most SCSI devices to portable PCs using any of several popular operating systems. The SlimSCSI adapter includes the following features:

- High-speed operation
- Ability to connect up to seven SCSI devices
- 50-pin high-density and 50-pin low-density SCSI connectors, which can be used with almost any SCSI-compatible device

The following software is included with the SlimSCSI adapter:

- Adaptec EZ-SCSI® 4.0 software, providing SlimSCSI adapter support for most SCSI devices running under Windows® 3.1, Windows® 95, and Windows NT™. Adaptec EZ-SCSI includes an audio CD player, a tape backup utility, an online tutorial, and other programs.
- Windows NT/OS2/Windows 95 Driver diskette
- CardWizard Pro (for Windows 3.1) and CardWizard Pro for Windows 95 software, which can be installed, if necessary, to resolve resource conflicts on PCs running under these operating systems.

Where Do I Start?

- First, follow the instructions in *Installing the SlimSCSI Adapter* on page 2.
- When you have installed the SlimSCSI adapter and SCSI devices, turn to *Completing the Installation* on page 3. Install the software by following the instructions for the operating system you are using—Windows 3.1, Windows 95, Windows NT, or OS/2.

Contents

| | |
|--|----|
| Installing the SlimSCSI Adapter | 2 |
| Completing the Installation | 3 |
| Completing the Installation in Windows 3.1 | 3 |
| Completing the Installation in Windows 95 | 4 |
| Completing the Installation in Windows NT | 5 |
| Completing the Installation in OS/2 | 6 |
| Using the SlimSCSI Adapter | 7 |
| Hot Plugging | 7 |
| Disk Partitioning | 7 |
| Need Assistance? | 8 |
| Troubleshooting Checklist | 8 |
| Troubleshooting with CardWizard Pro | 9 |
| Contacting Adaptec | 10 |

APA-1460A SlimSCSI Universal Installation Guide
Part Number: 511339-00, Rev. A Page 1 of 6
Print Spec Number: 495971-00
Current Date: 10/18/96
Last Modified: October 18, 1996 1:45 pm
File Location: d:\mario\slim2000.in\slimuni1.frm
ECN Date: 10/22/96

Installing the SlimSCSI Adapter

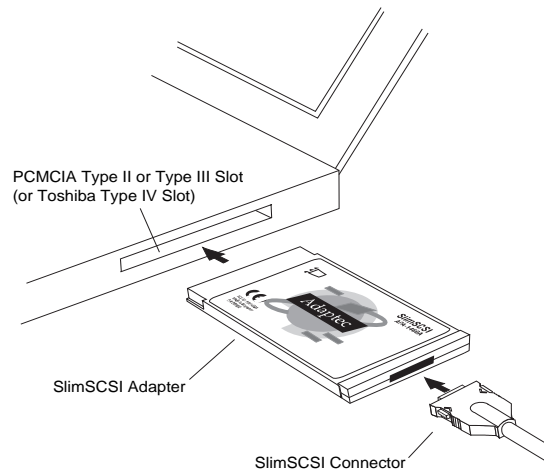
Follow these steps to install the SlimSCSI adapter and connect your SCSI devices to it:

- 1 Determine which SlimSCSI cable you need to connect the SlimSCSI adapter to the first (or only) SCSI device. The SlimSCSI kit includes a cable with a 50-pin high-density connector and another cable with a 50-pin low-density connector.



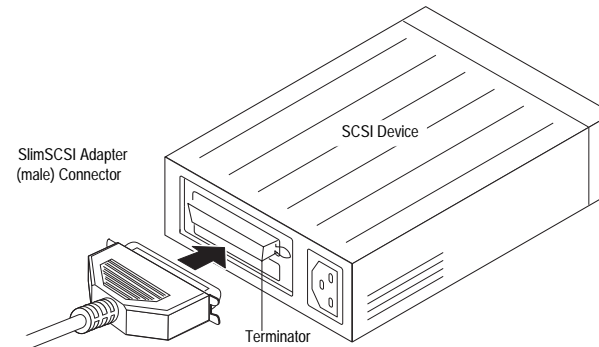
Note: If your SCSI device has a DB25 (25-pin) connector, send in the coupon included with your SlimSCSI adapter to receive a free cable with a DB25 connector.

- 2 Connect the SlimSCSI cable to the SlimSCSI adapter, as shown below:

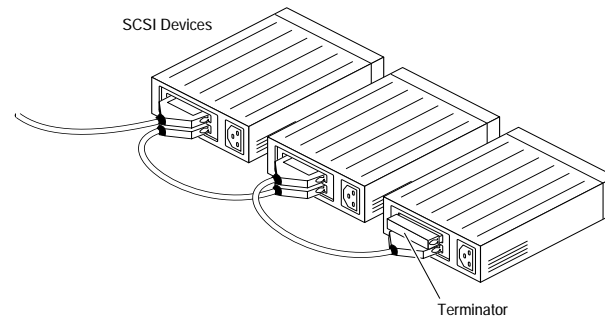


- 3 Insert the SlimSCSI adapter in a PC Card (PCMCIA) Type II or Type III slot, or a Toshiba Type IV slot on your portable PC as shown above.

- 4 Plug the 50-pin connector on the other end of the SlimSCSI cable into the first (or only) SCSI device, as shown below. The 50-pin low-density connector is shown here:



- 5 (Optional) Connect up to seven additional SCSI devices by daisy-chaining them as shown below. You need an additional external SCSI cable for each device:



- 6 Terminate the *last* (or *only*) SCSI device connected to the SlimSCSI adapter.

Usually, you terminate the device by setting a jumper or switch near the SCSI connector on the back of the device. See the device documentation for more information. The last device on the bus must provide termination power for itself, because the SlimSCSI adapter does not provide termination power to the devices connected to it. (See *General Troubleshooting* on page 8 for more information about termination power requirements.)

APA-1460A SlimSCSI Universal Installation Guide
Page 2 of 6
Part Number: 511339-00, Rev. A
Print Spec Number: 495971-00
Current Date: 10/18/96
Last Modified: October 18, 1996 1:45 pm
File Location: d:\mario\slim2000.in\slimuni1.frm
ECN Date: 10/22/96

- 7 Be sure that each SCSI device has a unique SCSI ID, ranging from 0 to 6. (The SlimSCSI adapter uses SCSI ID 7.)

The SCSI ID is usually set with jumpers or switches on the back of the device. See the device documentation for more information.

This completes the installation of your SlimSCSI adapter and SCSI devices. Now you need to install the drivers and other software. To do this, continue with the next section, *Completing the Installation*.

Completing the Installation

See one of the following sections to install software for the operating system you are using on your PC:

- *Completing the Installation in Windows 3.1*, immediately following
- *Completing the Installation in Windows 95* on page 4
- *Completing the Installation in Windows NT* on page 5
- *Completing the Installation in OS/2* on page 6

Completing the Installation in Windows 3.1



- 1 Insert the SlimSCSI adapter in a PC Card slot, connect the SCSI device(s) to it, and turn the device(s) ON. Be sure the last (or only) device on the SCSI bus is terminated.
- 2 Start Windows 3.1.
- 3 Insert the Adaptec EZ-SCSI diskette #1 in the PC's floppy disk drive.
- 4 Select **File/Run** from the Program Manager menu.
- 5 When the Run dialog box appears, type a:\setup and click **OK**.
- 6 Follow the instructions that appear on the screen.
- 7 When Adaptec EZ-SCSI is installed and your PC recognizes the SlimSCSI adapter, continue with *Using the SlimSCSI Adapter* on page 7.



Note: If your PC does not recognize the SlimSCSI adapter and SCSI devices, there may be a resource allocation problem. Review the *Troubleshooting Checklist* on page 8. If the adapter is still not recognized, install CardWizard Pro software (included with your SlimSCSI adapter) by following the directions in *Troubleshooting with CardWizard Pro* on page 9.

APA-1460A SlimSCSI Universal Installation Guide Page 3 of 6
Part Number: 511339-00, Rev. A
Print Spec Number: 495971-00
Current Date: 10/18/96
Last Modified: October 18, 1996 1:45 pm
File Location: d:\mario\slim2000.in\slimuni1.frm
ECN Date: 10/22/96

Completing the Installation in Windows 95



If Windows 95 Is Not Installed on Your PC

If Windows 95 is *not* already installed on your PC, install it now and then continue with the instructions in the next section, *If Windows 95 Is Installed on Your PC*.

Follow these steps if you need to install Windows 95 from a CD-ROM drive connected to your SlimSCSI adapter:

- 1 Insert the SlimSCSI adapter in a PC Card slot, connect the CD-ROM drive to it, and turn the drive ON.
Be sure the CD-ROM drive is *terminated*, if it is the last (or only) SCSI device on the bus. Also, be sure that you have installed your PC's version of DOS Card and Socket Services.
- 2 Boot the PC to DOS and insert the Adaptec EZ-SCSI diskette #2 in the PC's floppy drive.
- 3 At the DOS prompt, change to the drive letter of the floppy drive (usually a:), type dosinst, and press **Enter**.
- 4 Follow the instructions that appear on the screen. EZ-SCSI will install the drivers required by your CD-ROM drive.
- 5 When EZ-SCSI DOS installation is complete, remove the diskette and reboot your PC. Be sure the CD-ROM drive is still powered ON when you do this.
- 6 Insert the Windows 95 installation CD in the CD-ROM drive, and follow the installation instructions that appear on the screen.
- 7 When Windows 95 is installed on your PC, continue with the following section, *If Windows 95 Is Installed on Your PC*.

If Windows 95 Is Installed on Your PC

- 1 Start Windows 95 on your PC, if it is not already running.
- 2 To ensure that the correct Card and Socket Services are installed, open the Control Panel and double-click **PC Card (PCMCIA)**. Then follow the instructions that appear on the screen.
- 3 If the SlimSCSI adapter is not already inserted in the slot, insert it now. If no prompt appears, continue with step 4.

If a New Hardware Found dialog box appears, select **Driver from disk provided by hardware manufacturer** and click **OK**. Then insert the Adaptec EZ-SCSI diskette #1 in the floppy drive. Select the drive letter of your floppy drive and click **OK**, and then follow the instructions that appear on the screen. (This step ensures that the most up-to-date versions of drivers are installed.)

- 4 Insert the Adaptec EZ-SCSI diskette #1 in the floppy disk drive.
- 5 Click the **Start** button and select **Run**.
- 6 Type a:\setup and click **OK**.
- 7 Follow the instructions that appear on the screen.
- 8 When Adaptec EZ-SCSI is installed and your PC recognizes the SlimSCSI adapter, continue with *Using the SlimSCSI Adapter* on page 7.



Note: If your Windows 95 PC does not recognize the SlimSCSI adapter and SCSI devices at this point, there may be a resource allocation problem. Follow these steps:

- 1 Review the *Troubleshooting Checklist* on page 8.
- 2 If the SlimSCSI adapter is still not recognized, insert the CardWizard Pro for Windows 95 diskette in the floppy disk drive.
- 3 Type a:\setup and click **OK**.
- 4 Follow the directions that appear on the screen. (Choose the defaults for a "typical" installation.)

Completing the Installation in Windows NT



The SlimSCSI adapter is supported under Windows NT version 3.51 and higher.



Note: Windows NT 3.51 does not support *hot plugging* or *hot swapping*. This means that the SlimSCSI adapter and the devices connected to it must be plugged in and powered ON before you start Windows NT and that you cannot remove the adapter (or other PC Cards) while Windows NT is running.

If Windows NT Is Not Installed on Your PC

If Windows NT is *not* already installed on your PC, install it now and then continue with the instructions in the next section, *If Windows NT Is Installed on Your PC*.

Follow these steps if you need to install Windows NT from a CD-ROM drive connected to your SlimSCSI adapter:

- 1 Insert the SlimSCSI adapter in a PC Card slot, connect the CD-ROM drive to it, and turn the drive ON.
Be sure the CD-ROM drive is *terminated*, if it is the last (or only) SCSI device on the bus. Also, be sure that you have installed your PC's version of DOS Card and Socket Services.
- 2 Boot the PC to DOS and insert the Adaptec EZ-SCSI diskette #2 in the PC's floppy drive.
- 3 At the DOS prompt, change to the drive letter of the floppy drive (usually a:), type dosinst, and press **Enter**.
- 4 Follow the instructions that appear on the screen. EZ-SCSI will install the drivers required by the CD-ROM drive.
- 5 When EZ-SCSI installation is complete, remove the diskette and reboot your PC to DOS. A drive letter should now be assigned to your CD-ROM drive.

- 6 Insert the Windows NT installation CD in the CD-ROM drive and change to the `\i386` directory on the CD.
- 7 At the DOS prompt, type `winnt /b` and press **Enter**.
- 8 Install Windows NT by following the instructions that appear on the screen.
- 9 When Windows NT is installed, continue with the next section, *If Windows NT Is Installed on Your PC*.

If Windows NT Is Installed on Your PC

You must complete *all* steps in this section, even though Windows NT is already installed on your PC. These steps ensure that the required Windows NT registry changes are made.

- 1 Be sure that the SlimSCSI adapter is inserted in a PC Card slot and that the CD-ROM drive is connected to it and is turned ON.
- 2 Start Windows NT on your PC.
- 3 Double-click the Windows NT **Setup** program icon in the Main group.
- 4 Select **Options** from the Setup menu bar, then select **Add/Remove SCSI Adapters**. A list of all currently installed SCSI adapters will appear.



Note: If Adaptec 151x/152x/AIC-6260/6360 appears on the list, select it and click **Remove**.

- 5 Click **Add**, then click **OK** to verify that you want to add an adapter.
- 6 When the Select SCSI Adapter Option dialog box appears, select **Other** from the Adapter window.
- 7 Insert the Windows NT/OS2/Windows 95 Driver diskette (included with your SlimSCSI adapter) in the PC's floppy drive. Type `a:\winnt` in the dialog box and click **OK**.
- 8 Select **APA-1425/50/60 SCSI Host Adapter, for NT 3.51** from the list and click **OK** to add it to the list of SCSI adapters.
- 9 Select **APA-1425/50/60 SCSI Host Adapter, for NT 3.51** from the list of SCSI adapters and click **Install**. Follow the instructions that appear on the screen.

APA-1460A SlimSCSI Universal Installation Guide
Part Number: 511339-00, Rev. A Page 5 of 6
Print Spec Number: 495971-00
Current Date: 10/18/96
Last Modified: October 18, 1996 1:45 pm
File Location: d:\mario\slim2000.in\slimuni1.frm
ECN Date: 10/22/96

- 10 When the Setup program displays an updated list of currently installed host adapter types, verify that APA-1425/50/60 SCSI Host Adapter, for NT 3.51 appears on the list.
- 11 Click **Close**, and exit Setup; then restart your PC when you are prompted to do so.
- 12 When Windows NT starts again, insert the Adaptec EZ-SCSI diskette #1 in the floppy disk drive.
- 13 Select **Run** from Program Manager's File menu.



Note: If you are using Windows NT 4.0, click the **Start** button, and select **Run**.

- 14 Type a:\setup and click **OK** to install Adaptec EZ-SCSI.
- 15 When Adaptec EZ-SCSI is installed, continue with *Using the SlimSCSI Adapter* on page 7.

Completing the Installation in OS/2



Here is some important information about using the SlimSCSI adapter in computers running under OS/2:

- OS/2 *must already be installed* on the PC before you begin these installation steps. OS/2 does not support installation from a CD-ROM drive connected to a PC Card such as the SlimSCSI adapter.
- OS/2 does not support *hot-plugging*. This means that the SlimSCSI adapter and the devices connected to it must be plugged in and powered ON before you start OS/2 and that you cannot remove the adapter (or other PC Cards) while OS/2 is running.

Follow these steps to complete installation of the SlimSCSI adapter under OS/2 versions 2.x, 3.0, or 4.0 (Warp).

- 1 Be sure that the SlimSCSI adapter is inserted in a PC Card slot and that the SCSI disk drive and/or other SCSI devices are connected to it and are turned ON.
- 2 Start OS/2.
- 3 Open the **OS/2 System** icon, then open the **System Setup** icon. Double-click the **Selective Install** icon.
- 4 Click **PCMCIA Support**, select the PCMCIA system appropriate to your PC, and click **OK**.
- 5 Click **Install** and follow the instructions that appear on the screen. (You will be instructed to insert a series of OS/2 diskettes.)
- 6 When the installation procedure is completed, click **OK**.
- 7 Insert the Windows NT/OS2/Windows 95 Driver diskette in drive A.
- 8 Open the **OS/2 System** icon, and then open the **System Setup** folder. Double-click the **Device Driver Installation** icon.
- 9 Click **Change**, double-click the **OS2** directory, and click **Install**. The *aha152x.add* file is now installed on your PC, and the required changes are made to your *config.sys* file.

APA-1460A SlimSCSI Universal Installation Guide
 Part Number: 511339-00, Rev. A Page 6 of 6
 Print Spec Number: 495971-00
 Current Date: 10/18/96
 Last Modified: October 18, 1996 1:45 pm
 File Location: d:\mario\slim2000.in\slimuni1.frm
 ECN Date: 10/22/96