# Adaptec ASH-1233 ATA Adapter

**User's Guide** 



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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.
- Use a shielded and properly grounded I/O cable and power cable to ensure compliance of this unit to the specified limits of the rules.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.



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This Information Technology Equipment has been tested and found to comply with EMC Directive 89/336/EEC, as amended by 92/31/EEC and 93/68/EEC, in accordance with:

- EN55022 (1998) Emissions
- EN55024 (1998) Immunity:
  - EN61000-4-2 (1998) Electrostatic discharge: ±4 kV contact, ±8 kV air
  - EN61000-4-3 (1998) Radiated immunity
  - EN61000-4-4 (1995) Electrical fast transients/burst: ±1 kV AC, ±0.5 kV I/O
  - EN61000-4-5 (1995) Surges ±1 kV differential mode, ±2 kV common mode
  - EN61000-4-6 (1996) Conducted immunity: 3 V
  - EN61000-4-11 (1994) Supply dips and variation: 30% and 100%

In addition, all equipment requiring U.L. listing has been found to comply with EMC Directive 73/23/EEC as amended by 93/68/EEC in accordance with EN60950 with amendments A1, A2, A3, A4, A11.

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This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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The Adaptec ASH-1233 ATA adapter provides increased performance with enhanced ATA technology. The Adaptec ASH-1233 supports ATA/133 hard disk drives with data transfer rates up to 133 MegaBytes (MB) per second, providing maximum disk performance in systems that have a PCI bus.

This *User's Guide* explains how to install the Adaptec ASH-1233 adapter, connect ATA hard disk drives to it, and install the device drivers for your operating system.

# **System Requirements**

The minimum system requirements for the ASH-1233 adapter are:

- Pentium II-266 MHz Processor or higher
- Microsoft<sup>®</sup> Windows<sup>®</sup> 98SE, Windows Me, Windows 2000, or Windows XP
- Available PCI slot with bus-mastering enabled

**Note:** Refer to your system or motherboard documentation for information on enabling bus-mastering.

- At least one ATA drive and IDE cable
- CD-ROM or DVD-ROM drive

# This is Your Adaptec ASH-1233 Adapter

The Adaptec ASH-1233 adapter has the following features:



# **Installation Checklist**

To successfully install your Adaptec ASH-1233 adapter and ATA disk drives, perform these tasks, in order:

- 1 Install the ASH-1233 adapter. (See the next section below.)
- **2** Prepare your disk drives. (See page 5.)
- **3** Connect your disk drives to the ASH-1233 adapter. (See page 6.)
- 4 Mount your disk drives and connect power and LED cables. (See page 8.)
- **5** Install the device drivers. (See page 9.)

# Installing Your Adaptec ASH-1233 Adapter

You can install your Adaptec ASH-1233 adapter into a 32-bit or 64-bit PCI expansion slot.

**Note:** If you are installing the adapter into an existing system, back up all data before continuing.

To install the ASH-1233 adapter:

1 Discharge any static electricity build-up before handling the ASH-1233 adapter by touching a grounded metal object (such as the exposed metal parts on the back of your computer).



**Caution:** *Always* handle the adapter by its edges or metal bracket. Do not touch the gold PCI connector or any components on the adapter.

**2** Turn off power to the computer and disconnect the power cord. Open the computer cabinet, following the manufacturer's instructions.

**3** Locate an unused expansion slot and remove the slot cover. Save the slot cover screw for use in Step 5.



4 Insert the ASH-1233 adapter in the PCI expansion slot. Press down firmly until the adapter clicks into place. When installed properly, the adapter should appear level with the expansion slot.

**Note:** Depending on the tightness of the PCI slot, gentle but firm force may be required to insert the adapter.



**5** Secure the adapter bracket with the slot cover screw you removed in Step 3.

*Do not* close the computer cabinet, reattach the power cord, or power on your computer yet. Continue with *Preparing Your ATA Disk Drives on page 5*.

# **Preparing Your ATA Disk Drives**

Because setup can vary from device to device or computer to computer, always refer to your ATA disk drive and computer documentation for specific instructions.

**Note:** If you refer to the ATA drive's documentation for installation instructions, return to this document to continue with installation of the software included in your kit.

Before you begin, ensure that you have the correct cables for the ATA disk drives you are installing. Refer to the disk drives' documentation for more information on cables.

### Setting Jumpers on ATA Disk Drives

If you are installing two hard disk drives, set up each drive as a *master*. This is typically done by changing jumper settings on the drive. The *master* setting is the factory default setting on most ATA drives. Refer to your hard disk drive documentation to determine the correct jumper setting for *master* operation.

If you are installing four hard disk drives, set up two drives as *master* and the other two as *slave*. Mark the *master* and *slave* drives so you remember which are which when you are connecting the cables.

# **Connecting Your ATA Disk Drives**

The ASH-1233 adapter supports up to four ATA disk drives in a master/slave configuration. (See *Setting Jumpers on ATA Disk Drives on page 5* for more information.)

Connect each ATA disk drive to the ASH-1233 adapter using the proper 40-pin IDE cable.

**Note:** The Adaptec ASH-1233 adapter does not support Cable Select (CSEL) settings. You must change the jumper settings to set drives as master or slave.



To connect your ATA disk drives, follow the instructions for your specific drive configuration:

- To install an ATA disk drive as the only device on a cable, see page 7.
- To install two ATA disk drives on the same cable, see page 8.

### Connecting One ATA Disk Drive on a Cable

When you connect only one ATA disk drive to a cable, that disk drive must be set as a *master* drive. (See *Setting Jumpers on ATA Disk Drives on page 5* for more information.)

To connect one ATA drive to the ASH-1233 adapter:

1 Connect the IDE cable to an IDE connector on the ASH-1233 adapter, being careful to match pin 1 of the cable to pin 1 of the connector.

The cables and connectors are keyed. If the cable does not slide easily into the connector, *do not* force it. Instead, reverse the cable.

**Note:** The stripe along the edge of the cable indicates Pin #1. If the cable does not slide easily into the connector, reverse the cable.

**2** Connect the other end of the IDE cable to a master drive, as shown below on the left.



**3** Repeat Step 1 and 2 to connect a second ATA disk drive to the second IDE connector on the ASH-1233 adapter, as shown above on the right. Both disk drives must be set as master drives.

Continue with *Mounting ATA Disk Drives and Connecting Power Cables on page 8.* 

### Connecting Two ATA Disk Drives to the Same Cable

When you connect two ATA disk drives to a cable, one disk drive must be set as the *master*, the other must be set as the *slave*. (See *Setting Jumpers on ATA Disk Drives on page 5* for more information.)

To connect two disk drives to the same cable:

- 1 Connect one end of an IDE cable to an IDE connector on the ASH-1233 adapter.
- 2 Connect the *middle* connector on the IDE cable to the ATA disk drive that is set as the *slave*.
- **3** Connect the other end of the IDE cable to the ATA disk drive that is set as the *master*.

You can connect a maximum of four ATA disk drives to your ASH-1233 adapter, as shown at right.



Continue with *Mounting ATA Disk Drives and Connecting Power Cables on page 8.* 

# Mounting ATA Disk Drives and Connecting Power Cables

To complete the hardware installation:

1 Mount each ATA disk drive in an available drive bay inside your computer (as shown below).

Refer to your computer and device documentation for instructions on installing devices inside your computer.



- 2 Connect an LED cable from your computer's motherboard to the primary LED connector on your ASH-1233 adapter (shown in the Figure on page 2).
- **3** Connect a power cable from your computer's power supply to each ATA disk drive.
- 4 Close your computer cabinet, reattach the power cord, then power on your computer.

Continue with Installing the Device Driver on page 9.

### Installing the Device Driver

Before you can begin using your ASH-1233 adapter and ATA drives, you must install the device driver.

Follow the instructions provided for your operating system:

- For Windows XP, see page 10.
- For Windows 2000, see page 12.
- For Windows Me, see page 15.
- For Windows 98SE, see page 17.



**Note:** If you are installing your ASH-1233 adapter and ATA drives as part of a fresh operating system installation, refer to the Readme file on the CD for instructions.

### Windows XP

When you power on your computer, Windows automatically detects the new adapter and opens the New Hardware Installation Wizard.

To complete the device driver installation:

- 1 Insert the Adaptec ASH-1233 CD into your CD-ROM drive.
- 2 In the Wizard, click **Install the software automatically...**, then click **Next**.

Found New Hardware Wizard	
	Welcome to the Found New Hardware Wizard
	This wizard helps you install software for:
	Mass Storage Controller
- And	If your hardware came with an installation CD or floppy disk, insert it now.
	What do you want the wizard to do?
	<ul> <li>Install the software automatically (Recommended)</li> <li>Install from a list or specific location (Advanced)</li> </ul>
	Click Next to continue.
	< Back Next > Cancel

- **3** If a message appears indicating that the driver is not digitally signed, click **Continue Anyway**.
- 4 When the installation is complete, click **Finish**.

5 To verify that the adapter is installed correctly, right-click the My Computer desktop icon, select Properties, click the Hardware tab, then click the Device Manager button. Expand SCSI and RAID Controllers and ensure that the controller is listed, as shown below.



### Windows 2000

When you power on your computer, Windows automatically detects the new adapter and opens the New Hardware Installation Wizard.

To complete the device driver installation:

- 1 Insert the Adaptec ASH-1233 CD into your CD-ROM drive.
- 2 In the Wizard, click Next.



**3** Select **Search for a suitable driver...**, then click **Next**.

Found New Hardware Wizard
Install Hardware Device Drivers A device driver is a software program that enables a hardware device to work with an operating system.
This wizard will complete the installation for this device:
A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.
What do you want the wizard to do?
<ul> <li>Search for a suitable driver for my device (recommended)</li> </ul>
C Display a list of the known drivers for this device so that I can choose a specific driver
< Back Next > Cancel

4 Select CD-ROM drives, then click Next.

Found New Hardware Wizard
Locate Driver Files Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
Mass Storage Controller
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy disk drives
CD-ROM drives
Specify a location
Microsoft Windows Update
< Back Next > Cancel

### 5 Click Next again.

Found New Hardware Wizard
Driver Files Search Results The wizard has finished searching for driver files for your hardware device.
The wizard found a driver for the following device:
Mass Storage Controller
Windows found a driver for this device. To install the driver Windows found, click Next.
d\si680.inf
< Back Next > Cancel

- **6** When the installation is complete, click **Finish**.
- 7 Restart your computer if you are prompted to do so.

8 To verify that the adapter is installed correctly, right-click the **My Computer** desktop icon, select **Properties**, click the **Hardware** tab, then click the **Device Manager** button. Expand **SCSI and RAID Controllers** and ensure that the controller is listed, as shown below.



### Windows Me

When you power on your computer, Windows automatically detects the new adapter and opens the New Hardware Installation Wizard. To complete the device driver installation:

- 1 Insert the Adaptec ASH-1233 CD into your CD-ROM drive.
- 2 In the Wizard, select Automatic search for a better driver..., then click Next.



**3** When the installation is complete, click **Finish**.

4 To verify that the adapter is installed correctly, right-click the My Computer desktop icon, select Properties, then click the Device Manager tab. Select View devices by type, then expand SCSI Controllers and ensure that the controller is listed, as shown below.



### Windows 98SE



**Note:** You may need your Windows 98SE CD during installation.

When you power on your computer, Windows automatically detects the new adapter and opens the New Hardware Installation Wizard. To complete the device driver installation:

- 1 Insert the Adaptec ASH-1233 CD into your CD-ROM drive.
- 2 In the Wizard, click **Next**.

Add New Hardware Wizard		
	This wizard searches for new drivers for:	
	PCI Mass Storage Controller	
	A device driver is a software program that makes a hardware device work.	
8		
	< <u>₿</u> ack Next> Cancel	

3 Click Search for the best driver..., then click Next.



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4 Select CD-ROM drive, then click Next.

Add New Hardware Wizard	
	Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.         Eloppy disk drives         ©
	< Back Next > Cancel

5 Click Next again.

Add New Hardware Wizard	
Add New Hardware Wiz	Ard Windows driver file search for the device: Silicon Image Sil 0680 ATA/133 Controller Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue. Location of driver: D:\SI680.INF
	< Back Next> Cancel

**6** When the installation is complete, click **Finish**.

7 To verify that the adapter is installed correctly, right-click the My Computer desktop icon, select Properties, then click the Device Manager tab. Select View devices by type, then expand SCSI Controllers and ensure that the controller is listed, as shown below.



## **Registering Your Adaptec ASH-1233 Adapter**

To register your ASH-1233 adapter, go to register.adaptec.com.

# Troubleshooting

If you have any problems using the Adaptec ASH-1233 adapter, work through these troubleshooting suggestions:

- Ensure that the ASH-1233 adapter is inserted evenly and completely in the PCI slot.
- Ensure that the PCI expansion slot is 5V and compliant with PCI 2.2 or previous version, and supports Bus Mastering.
- Check that the ASH-1233 adapter is detected during boot. If it is not detected, try moving it to another available PCI slot.
- Check that all ATA cables and power cables are connected.
- Check the jumper settings on your ATA disk drives.



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