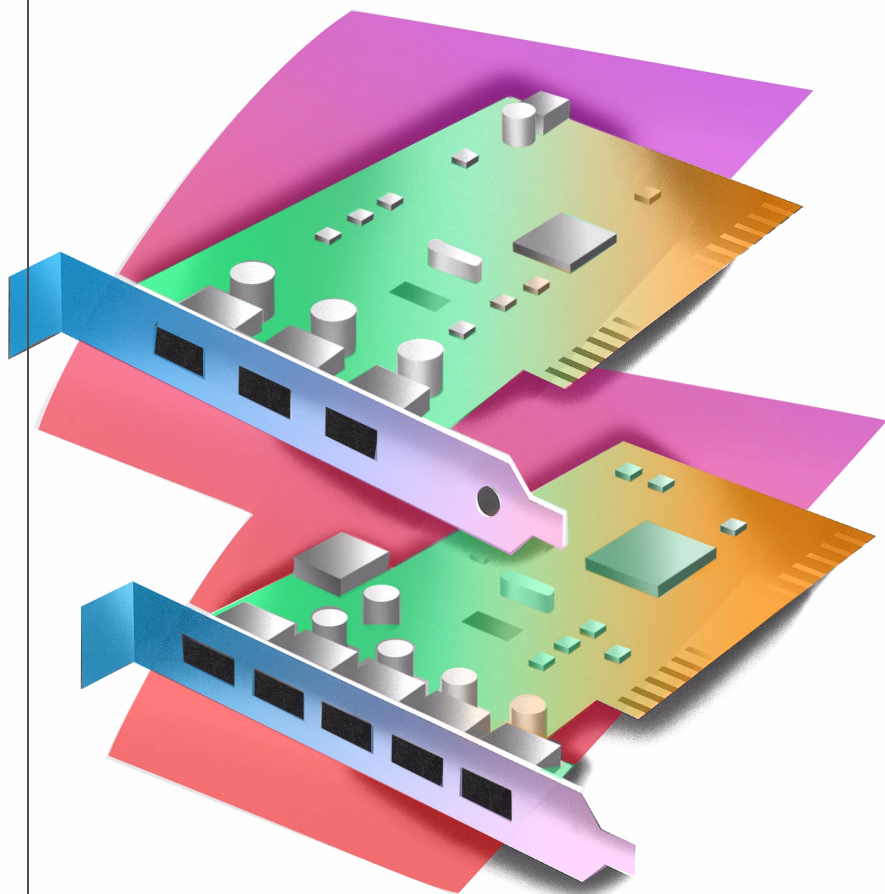




USER'S GUIDE



ADAPTEC AUA-2000/3100LP/4000A/5100
USB2CONNECT ADAPTER

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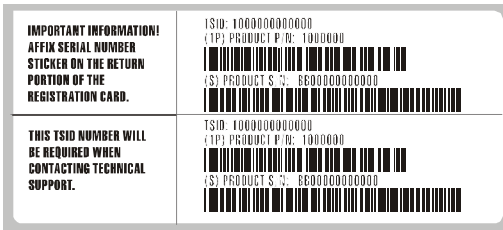
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If you have questions about installing or using your Adaptec product, check this document first—you will find answers to most of your questions here. If you need further assistance, use the support options listed below.

Technical Support Identification (TSID) Number

- Before contacting Technical Support, you need your unique 12-digit TSID number. The TSID number identifies your product and support status.
- The TSID number is included on two white, bar-coded labels, like the example below. Affix your TSID label here:



Support Options

- Search the Adaptec Support Knowledgebase (ASK) at ask.adaptec.com for articles, troubleshooting tips, and frequently asked questions for your product.
- For support via Email, submit your question to Adaptec's Technical Support Specialists at ask.adaptec.com.
- To order Adaptec products, including accessories and cables, call +1 408-957-7274. Or, you can order cables online at www.adaptec.com/buy-cables.

Europe

- Visit our Web site at www.adaptec-europe.com.
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- **French:** Search the Adaptec Support Knowledgebase (ASK) at ask-fr.adaptec.com for articles, troubleshooting tips, and frequently asked questions for your product. For support via e-mail, submit your question to Adaptec's Technical Support Specialists at ask-fr.adaptec.com.
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- Fax Technical Support at +852 2869 7100.

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- Visit our Web site at www.adaptec.co.jp.

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Legal Department
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Milpitas, California 95035.

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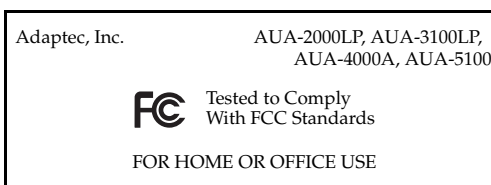
Federal Communications Commission Radio Frequency Interference Statement

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 will not occur in a particular installation. However, if this equipment does cause 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:

- n Reorient or relocate the receiving antenna.
- n Increase the separation between equipment and receiver.
- n Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- n Consult the dealer or an experienced radio/television technician for help.
- n 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.



European Union Compliance Statement

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:

- n EN55022 (1998) Emissions
- n 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.



Australian/New Zealand Compliance Statement

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to the Australian/New Zealand standard AS/NZS 3548 set out by the Spectrum Management Agency.



Canadian Compliance Statement

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.



Japanese Compliance (Voluntary Control Council Initiative)

This equipment complies to class B Information Technology equipment based on VCCI (Voluntary Control Council for Interface). This equipment is designed for home use but it may causes radio frequency interference problem if used too near to a television or radio. Please handle it correctly per this documentation.

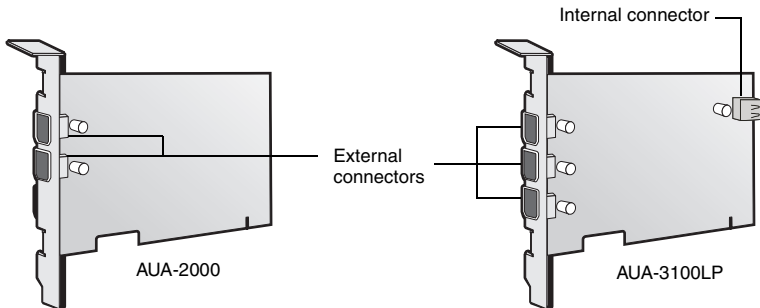
This *User's Guide* describes how to install Adaptec USB2connect adapters and associated drivers in Windows[®] and Macintosh[®] computers.

Overview

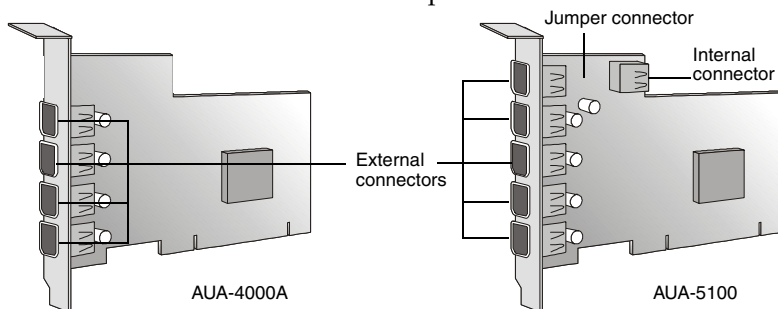
The Adaptec AUA-2000, AUA-3100LP, AUA-4000A, and AUA-5100 USB (Universal Serial Bus) adapters are compatible with USB 1.1 Open Host Controller Interface (OHCI) and USB 2.0 Enhance Host Controller Interface (EHCI) devices and work in virtually any PCI slot.

USB 2.0 is the fastest USB standard, capable of transferring data at up to 480 Megabits per second while maintaining backward compatibility with USB 1.1 devices.

The AUA-2000 and AUA-3100LP adapters are shown below.



The AUA-4000A and AUA-5100 adapters are shown below.



System Requirements

In order to use the USB2connect adapter, you need

- One of the following types of computers:
 - Windows 2000, Windows Me, or Windows 98 SE computer with a 200-MHz (or faster) processor
 - Power Macintosh Beige G3, Rev. B or newer, with Macintosh OS 9.0.4 and later



Note: For the latest information on operating system support, see the Readme file on the CD or check the Adaptec Web site at www.adaptec.com.

- An available PCI slot (32-bit or 64-bit, 3.3-volt or 5-volt, 33-MHz and 66-MHz)



Note: If you are installing the adapter in a low-profile computer, you need a low-profile bracket. See [Adaptec Technical Support on page iii](#) for information on ordering parts.

- A CD-ROM drive

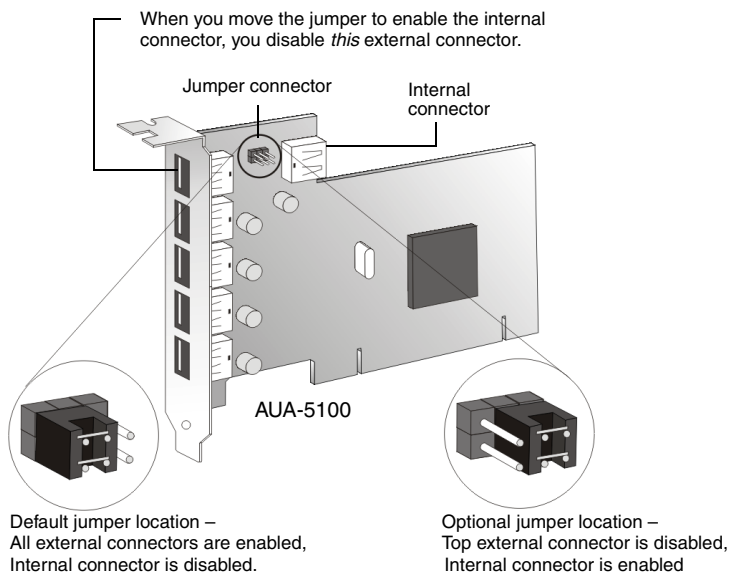
Kit Contents

- One Adaptec USB2connect adapter
- Low-profile bracket (AUA-3100LP kits only)
- Printed *USB2connect Installation Guide*
- USB2connect CD containing:
 - This *User's Guide*
 - Adobe Acrobat Reader software
 - Drivers
 - Readme file

Installing Jumpers – *AUA-5100 only*

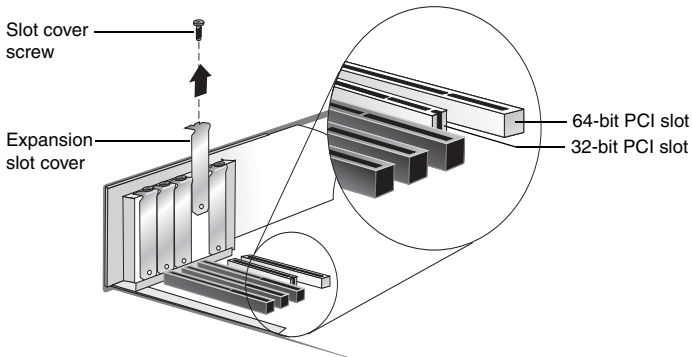
The Adaptec AUA-5100 adapter has six USB connectors—one internal and five external. However, only five connectors can be used at any one time. You can control which connectors are enabled (usable) by setting a jumper.

The adapter is shipped with a jumper installed so that all five external connectors are enabled and the internal connector is disabled. You can change this default setting and enable the internal connector by moving the jumper, as shown below.

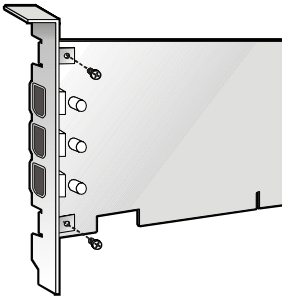


Installing the USB2Connect Adapter

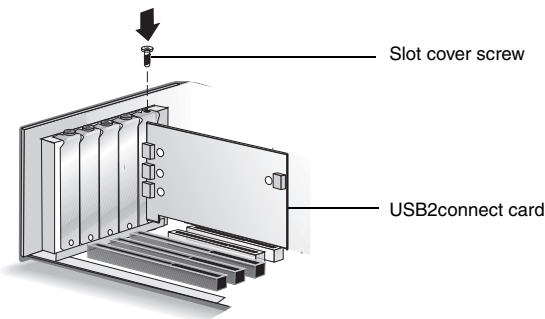
- 1 Discharge any static electricity from your body by touching a grounded metal object (such as the exposed metal parts on the back of your computer).
- 2 Turn off power to the computer and disconnect the power cord.
- 3 Open the computer cabinet. See your computer documentation for specific instructions, if needed.
- 4 Locate an unused 32- or 64-bit PCI expansion slot and remove the expansion slot cover. Save the slot cover screw for use in [Step 7](#).



- 5** *Low-profile computers only*– To install the AUA-3100LP adapter in a low-profile computer, replace the existing full-height bracket with the low-profile bracket included in your kit. Remove and replace the bracket attachment screws on the adapter as shown below.



- 6** Insert the USB2connect adapter into the PCI expansion slot. Press down firmly until the card clicks into place.
- 7** Replace the slot cover screw. When installed properly, the card should be level with the expansion slot, as shown below.



- 8** Close the computer cabinet and reattach the power cord.

Installing the Windows Drivers

The USB2connect adapter contains the following controllers:

Controller type	Number of controllers	Description
USB 1.1	2	NEC USB OHCI-compliant
USB 2.0	1	Adaptec AUA-xx00 PCI to USB EHCI-compliant

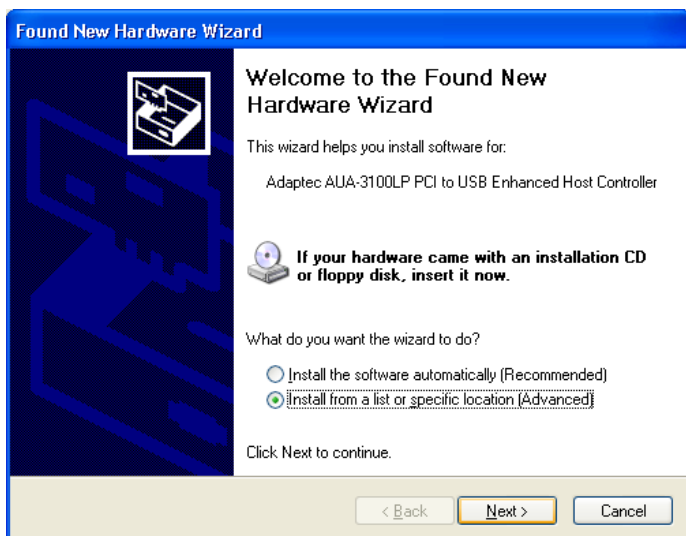
When successfully installed, these controllers are each displayed separately in the Windows Device Manager.

Windows XP

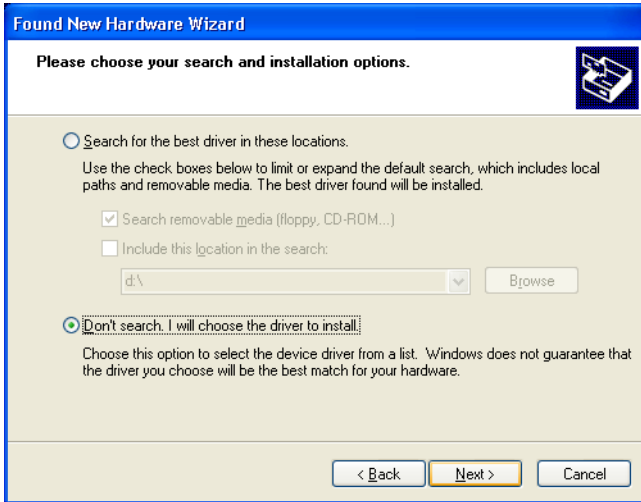
- 1 Start Windows XP.

Windows XP will automatically discover the new hardware and start the Found New Hardware Wizard to walk you through the device driver installation.

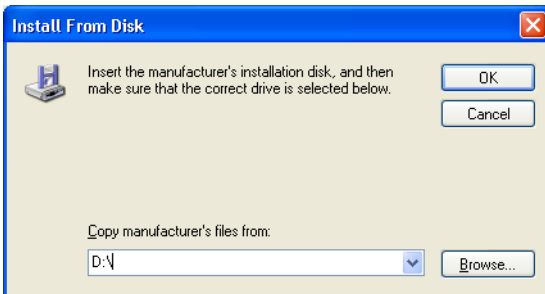
- 2 Select **Install from a list or specific location (Advanced)**, then select **Next**.



- 3 Select **Don't search, I will choose the driver to install**, then click **Next**.



- 4 Click **Next** again.
- 5 Click **Have Disk**.
- 6 Insert the Adaptec USB2connect CD into the CD-ROM drive. Type the drive letter for your CD-ROM drive in the Copy manufacturer's files from box, as shown below, and click **OK**.

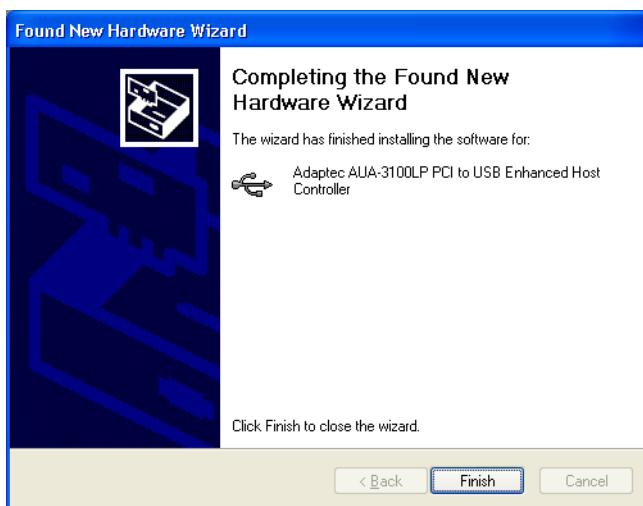


Note: Your CD-ROM drive may have a different drive letter than the one shown in the example above.

- 7 On the next screen, click **Continue Anyway**.

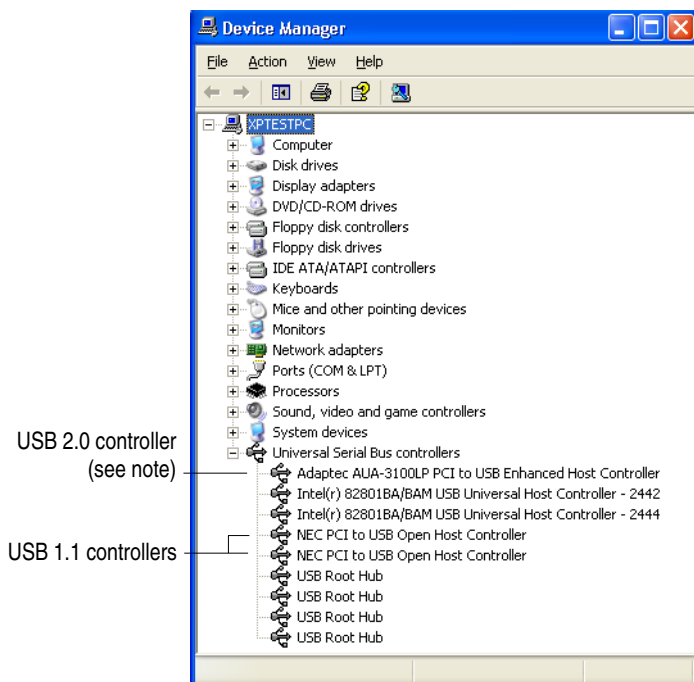


- 8 When the installation is complete, click **Finish**.



- 9 If you are prompted to restart the computer, click **Yes**.

- 10 To verify that the driver is installed, right-click the **My Computer** desktop icon, select **Properties**, click the **Hardware** tab, then click the **Device Manager** button. Expand **Universal Serial Bus controllers** and verify that the information shown below appears.



Note: *USB 2.0 controller* – Your controller is identified by its model number, which may differ from the model number shown in this *User's Guide*.

Windows 2000

- 1 Turn on the computer and insert the USB2connect CD.
- 2 Log in as Administrator



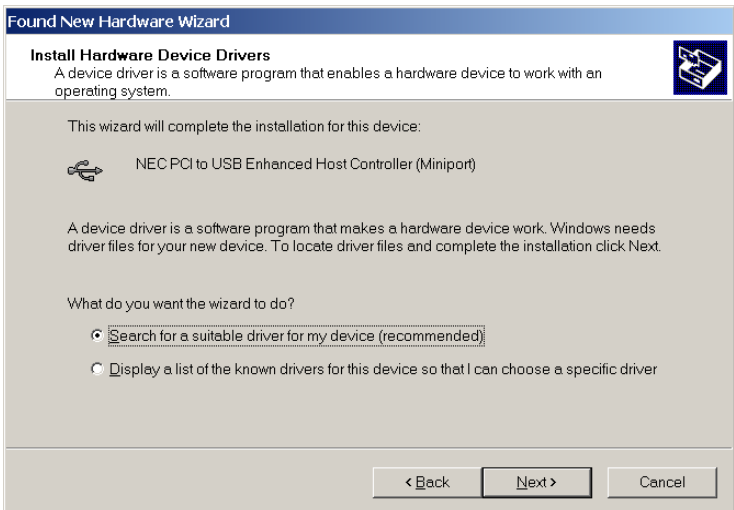
Note: You need to log in as administrator or acquire administrator privileges for your computer in order to complete the driver installation.

During the operating system startup, the adapter is detected and Windows searches for embedded drivers for the card.

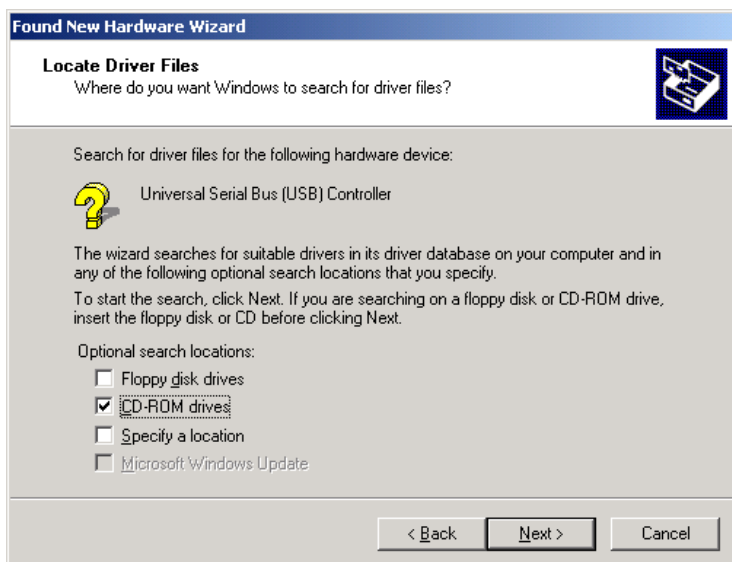


Note: It may take longer than usual for your system to restart because the operating system is locating and installing new drivers.

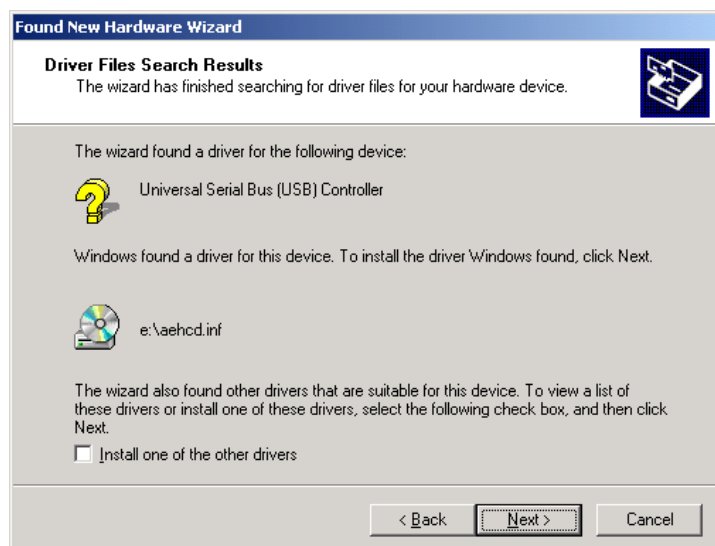
- 3 The Found New Hardware Wizard opens. Click **Next**.
- 4 In the Install Hardware Device Drivers window, select **Search for a suitable driver for my device (recommended)** and click **Next**.



- 5 On the Locate Driver Files window, uncheck all options *except* CD-ROM drives, and click Next.



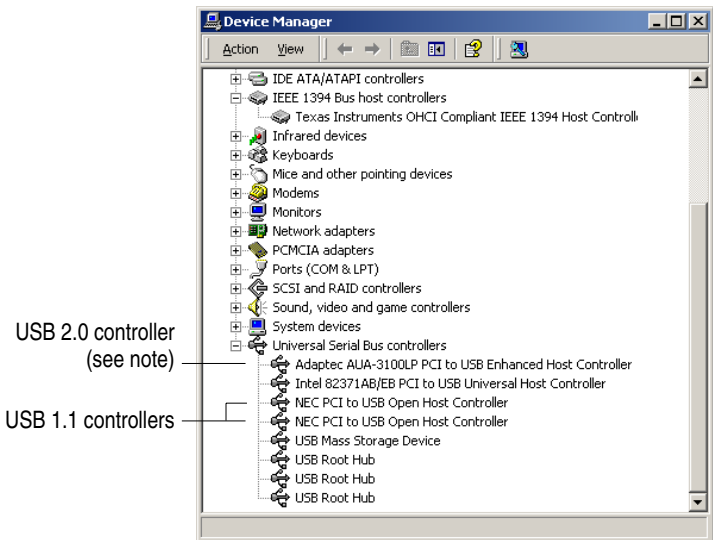
- 6 On the Driver Files Search Results window, ensure that the **Install one of the other drivers** check box is *not* checked, and click Next.





Note: What your computer shows may differ from what is shown in the example above. First the file may not be exactly the same, but it will have an *inf* extension. Also, the drive letter for your CD-ROM drive may not be *e*.

- 7 When Windows is finished copying drivers, click **Finish**.
- 8 Restart your computer if prompted to do so.
- 9 To verify that the driver is installed, right-click the **My Computer** desktop icon, select **Properties**, click the **Hardware** tab, and then click the **Device Manager** button. Then, expand **Universal Serial Bus controllers** and verify that the information shown below appears.



Note: *USB 2.0 controller* – Your controller is identified by its model number, which may differ from the model number shown in this *Guide*.

Windows Me

- 1 Turn on the computer and insert the USB2connect CD. During the operating system startup, the adapter is detected and Windows searches for embedded drivers for the card.



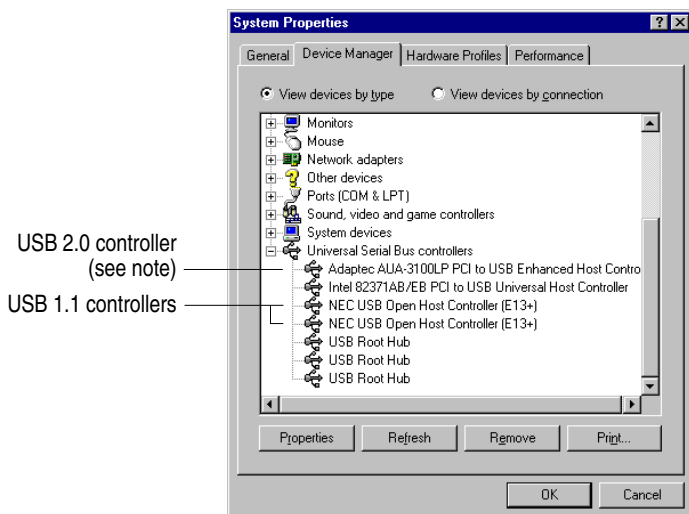
Note: It may take longer than usual for your system to restart because the operating system is locating and installing new drivers.

- 2 If you see a message that the PCI Universal Serial Bus driver was not located, select **Automatic search for a better driver (Recommended)**. Then, insert the USB2connect CD and click **Next**.



- 3 When Windows has finished copying the USB 2.0 drivers from the USB2connect CD, click **Finish**.
- 4 Restart your computer if prompted to do so.

- 5 To verify that the driver is installed, right-click the **My Computer** desktop icon, select **Properties**, and then click the **Device Manager** tab. Then, expand **Universal Serial Bus controllers** and verify that the information shown below appears.

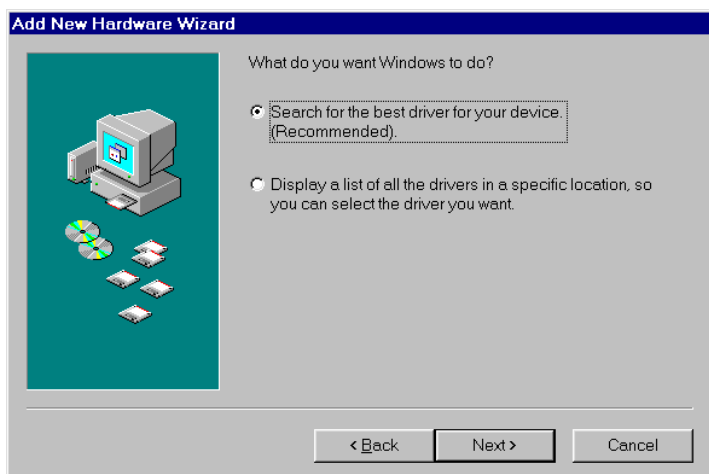


Note: *USB 2.0 controller* – Your controller is identified by its model number, which may differ from the model number shown in this *Guide*.

Windows 98 SE

Windows 98 SE requires three device driver installations using the Add New Hardware Wizard because the operating system has no embedded USB drivers. During driver installation, you may need to use the operating system CD.

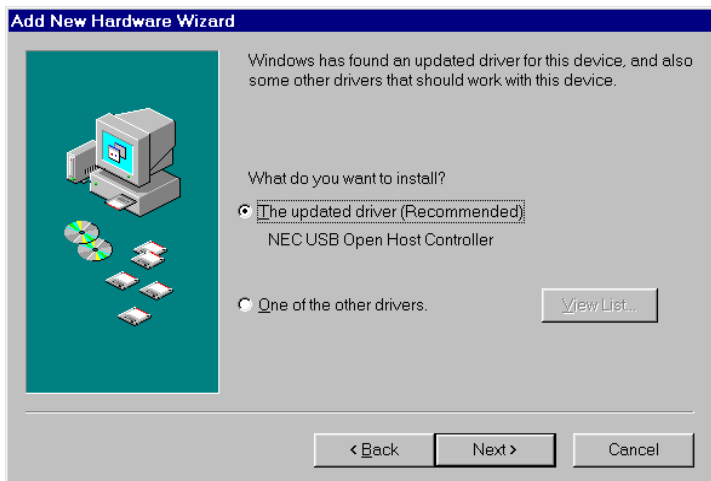
- 1 Turn on the computer and insert the USB2connect CD.
- 2 When the Add New Hardware Wizard opens, click **Next**.
- 3 Select **Search for the best driver for your device (Recommended)** and click **Next**.



- 4 In the following window, uncheck all options and click **Next**.

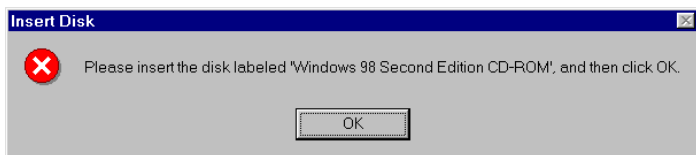


- 5 Select **The updated driver (Recommended)** and click **Next**.

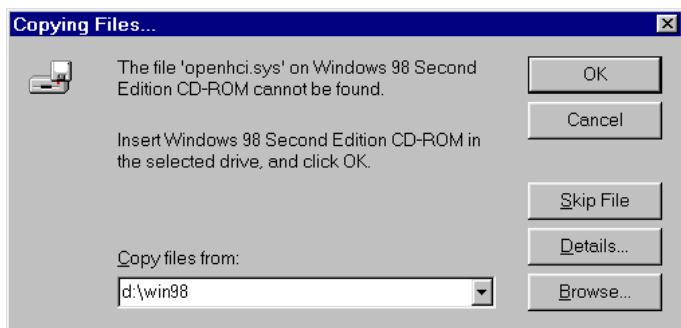


- 6 You may see a message that Windows is searching for the driver. Click **Next**.

- 7 When you see the following prompt, insert your Windows 98 CD in your CD-ROM drive and click **OK**.

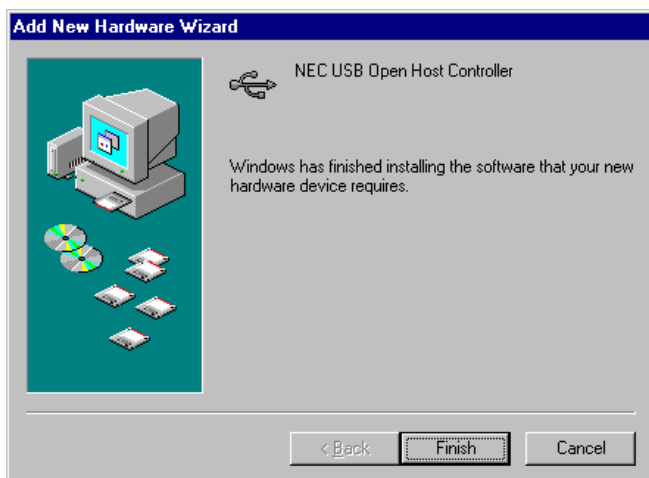


- 8 Type the drive letter for your CD-ROM drive in the Copy files from box, as shown below, and click **OK**.



Note: If you have copied your driver files onto your hard drive and know where they are located, you can browse to that folder instead of inserting the Windows 98 SE CD. Also, your CD-ROM drive may not necessarily be drive letter d.

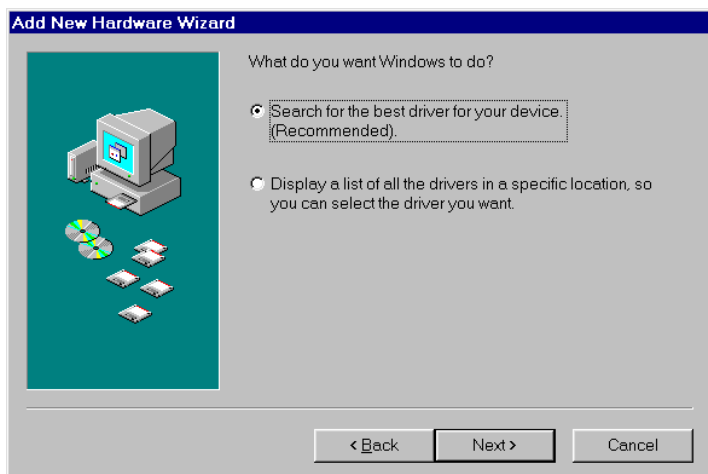
- 9 When the third driver has been copied onto your system, the following window appears. Click **Finish**.



Note: At this point, the first USB 1.1 driver is installed. To install the second USB 1.1 driver, repeat steps [2](#) through [9](#).

- 10 The Hardware Wizard will start again and attempt to install the USB 2.0 driver. Click **Next**.

- 11 Select **Search for the best driver for your device (Recommended)**, and click **Next**.



- 12 Check the **CD-ROM drive** option, insert the USB2connect CD, and click **Next**.

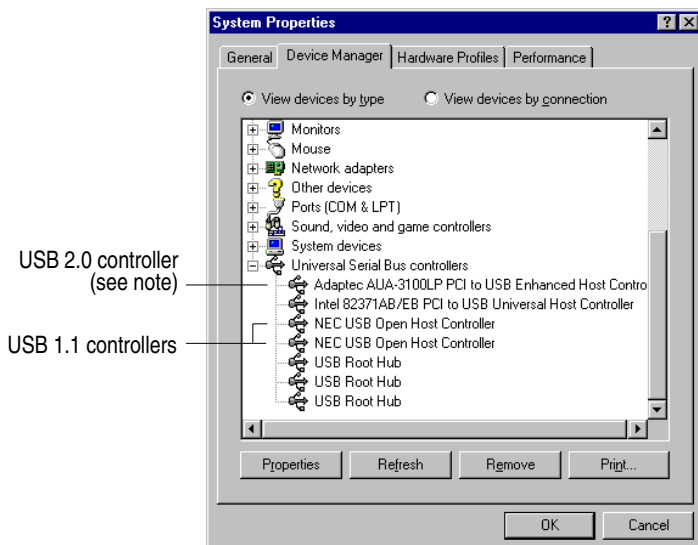


- 13 If the following screen appears, select **The updated driver (Recommended)**, and click **Next**. Otherwise, proceed to [Step 15](#).



- 14 Windows shows you the location of the driver. Click **Next**.
- 15 When Windows is finished copying files, click **Finish**.
- 16 Windows displays an Unknown Device error message if there is no USB 2.0 driver on your system. Click **Finish**.

- 17 To verify that the drivers are installed, right-click on **My Computer**, select **Properties**, and click the **Device Manager** tab. Then, expand the **Universal Serial Bus controllers** section. You should see the information displayed below.



Note: *USB 2.0 controller* – Your controller is identified by its model number, which may differ from the model number shown in this *Guide*.

Installing the Driver for Macintosh OS 9

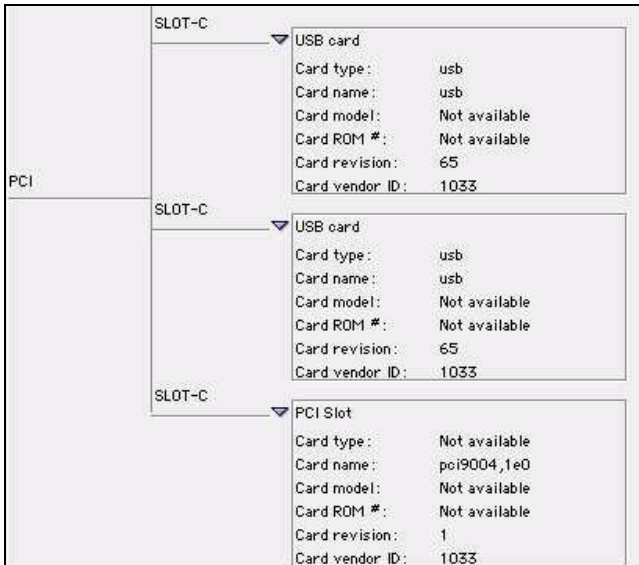
To install the USB 1.1 drivers in your Macintosh computer, perform the following steps:



Note: No installation is required for Macintosh OS 10.0.4 and later. The USB 1.1 drivers are built into the operating system.

- 1 Turn on the computer and insert the USB2connect CD.
- 2 Double-click the **Start Installation Here** file on the CD.
- 3 Follow the instructions to install the latest Macintosh USB drivers, if necessary.
- 4 Double-click the **USB2connect Installer** file and follow the instructions.
- 5 After the installation is complete, click **Restart** to reboot your Macintosh, if necessary, and have the new settings take effect.
- 6 Verify that the card is seen by your computer by clicking **Apple System Profiler** in the Apple Menu. Then, click the **Devices and Volumes** tab.

- 7 Scroll down to the PCI area and click the arrow next to each PCI slot to reveal the PCI card information. If the USB2connect adapter is installed properly, you will see the following information listed under one of the slots.



If you do not see the USB2connect adapter, verify that the Apple USB extensions are loaded and enabled. Also, verify that the card is seated properly.

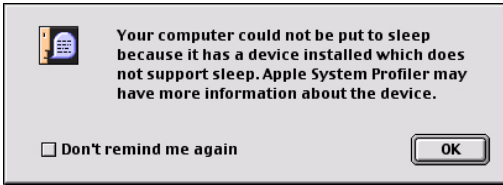
If you are still unable to resolve a problem, see the Adaptec Web site at www.adaptec.com or the Adaptec Support Knowledgebase at ask.adaptec.com for additional troubleshooting information.

USB2connect and Deep Sleep

The USB2connect adapter does not support Deep Sleep on Power Macintosh G4 computers. When you use the USB2connect installer as described on [page 22](#), the DisableSleep driver (shown at right) is installed and the Deep Sleep feature is disabled. After you install the USB2connect driver, if you try to put a Power Macintosh G4 into Deep Sleep, you will see the message shown below.



USB2connect DisableSleep Driver

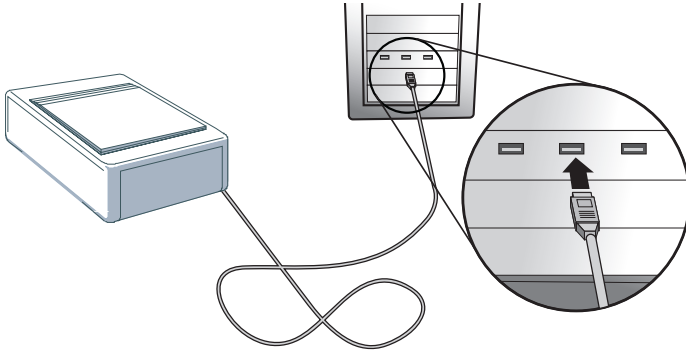


Uninstalling the USB2connect Adapter

If you want to remove USB connectivity from your Macintosh computer and continue using Deep Sleep, simply remove the USB2connect adapter from your computer and the DisableSleep extension is not used.

Connecting USB Devices

You can connect standard USB 1.1 or high-speed USB 2.0 devices to the connectors of the USB2connect adapter, as shown below.



Hotplugging

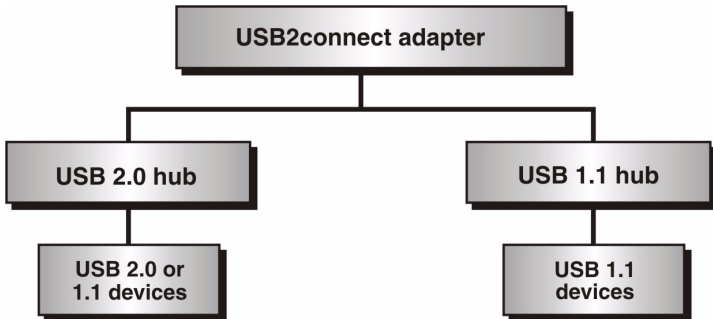
The USB2connect adapter supports hot-plugging, allowing USB devices to be attached and recognized while the computer is on. Device manufacturers support hot-plugging in different ways. Refer to the instructions for each device for attaching and mounting recommendations.



Note: Moving a device from one adapter connector to another can cause the operating system to initiate a new hardware installation process. Refer to the [Readme](#) file for details.

Hubs

The following figure shows the recommended configuration for connecting USB 1.1 and USB 2.0 devices. Note that you *could* connect USB 2.0 devices to a USB 1.1 hub, but the USB 2.0 devices would run at slower USB 1.1 speeds.



Troubleshooting

If you encounter difficulties installing or using your USB2connect adapter, check the following:

- Is the card seated evenly in the PCI slot?
- Did the driver fail to load? If so, try moving the card to a different PCI slot.
- Is bus mastering support provided and enabled for the PCI slot containing USB2connect? Check your motherboard documentation for information.
- Did you encounter problems with a USB device when it is connected to a hub? If so, connect the affected device directly to the USB2connect adapter.
- *AUA-5100 only*—Did you attach a device to a disabled connector? See [Installing Jumpers – AUA-5100 only on page 3](#) for details on enabling and disabling connectors.
- Did you encounter problems loading the drivers on your Windows 2000 operating system? If so, refer to the Readme file on the USB2connect CD. Also, check the Windows 2000 event log and the troubleshooting section of your operating system user's guide.



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