# Bull 32X SCSI–2 CD–ROM Drive Installation and Using Guide

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# Bull 32X SCSI–2 CD–ROM Drive Installation and Using Guide

Hardware

December 2002

BULL CEDOC 357 AVENUE PATTON B.P.20845 49008 ANGERS CEDEX 01 FRANCE

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## **Safety Information**

#### DANGER

An electrical outlet that is not correctly wired could place hazardous voltage on metal parts of the system or the devices that attach to the system. It is the responsibility of the customer to ensure that the outlet is correctly wired and grounded to prevent an electrical shock.

Before installing or removing signal cables, ensure that the power cables for the system unit and all attached devices are unplugged.

When adding or removing any additional devices to or from the system, ensure that the power cables for those devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the existing system before you add a device.

Use one hand, when possible, to connect or disconnect signal cables to prevent a possible shock from touching two surfaces with different electrical potentials.

During an electrical storm, do not connect cables for display stations, printers, telephones, or station protectors for communications lines. D05

#### Laser Safety Information

#### CAUTION:

This product may contain a CD-ROM which is a class 1 laser product. C29

#### Laser Compliance

All lasers are certified in the U.S. to conform to the requirements of DHHS 21 CFR Subchapter J for class 1 laser products. Outside the U.S., they are certified to be in compliance with the IEC 825 (first edition 1984) as a class 1 laser product. Consult the label on each part for laser certification numbers and approval information.

#### CAUTION:

All IBM laser modules are designed so that there is never any human access to laser radiation above a class 1 level during normal operation, user maintenance, or prescribed service conditions. Data processing environments can contain equipment transmitting on system links with laser modules that operate at greater than class 1 power levels. For this reason, never look into the end of an optical fiber cable or open receptacle. Only trained service personnel should perform the inspection or repair of optical fiber cable assemblies and receptacles. C25

# **Handling Static-Sensitive Devices**

**Attention:** Static electricity can damage the device and your system unit. To avoid damage, keep this device in its anti-static protective bag until you are ready to install it. To reduce the possibility of electrostatic discharge, follow the precautions listed below:

- Limit your movement. Movement can cause static electricity to build up around you.
- Handle the device carefully, holding it by its edges or its frame.
- Do not touch solder joints, pins, or exposed printed circuitry.
- Do not leave the device where others can handle and possibly damage the device.
- While the CD-ROM drive is still in its anti-static package, touch it to an unpainted metal part of the system unit for at least two seconds. (This drains static electricity from the package and from your body.)
- Remove the device from its package and install it directly into your system unit without setting it down. If it is necessary to set the device down, place it on its static-protective package. (If your device is an adapter, place it component-side up.) Do not place the device on your system unit cover or on a metal table.
- Take additional care when handling devices during cold weather, as heating reduces indoor humidity and increases static electricity.

# **About This Book**

This book provides information about the 32X SCSI-2 CD-ROM Drive, and how to properly set the jumpers, install the CD-ROM drive, and use the CD-ROM drive. Use this book along with your specific system unit and operating system documentation.

#### **ISO 9000**

ISO 9000 registered quality systems were used in the development and manufacturing of this product.

#### **Related Publications**

The following publications contain related information:

- · System unit documentation for information specific to your hardware configuration
- AIX operating system documentation for information specific to your software configuration

The AIX documentation library is available at the following Web address: http://publib16.boulder.ibm.com/pseries/en\_US/infocenter/base. Select **AIX documentation**. AIX documentation is also contained on the AIX Documentation CD which was shipped with your AIX operating system. The documentation is made accessible by loading the documentation CD onto the hard disk or by mounting the CD into a CD-ROM compatible drive.

## Trademarks

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• AIX

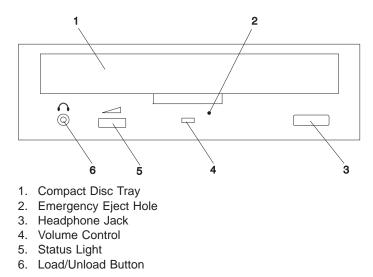
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## **Chapter 1. Overview**

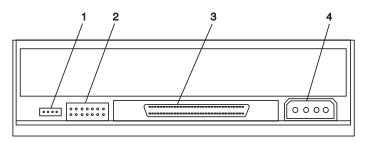
This chapter describes the features of the 32X SCSI-2 CD-ROM Drive and provides instructions for handling the drive and CD-ROM discs. The CD-ROM is a half-high, 5.25-inch, 8-bit, single-ended, tray-loading drive. Its distinctive features include the following:

- · SCSI-2 interface supports both synchronous and asynchronous data transfer
- High-speed data transfer rate of 2100KB per second (14X) at inner diameter and 4800KB per second (32X) at outer diameter due to constant RPM spin rate
- · High-speed synchronous burst rate of 10MB per second
- · Average random access time of 90ms
- · Can be installed in either a vertical or horizontal orientation
- Loading tray accommodates both 8cm discs (in the horizontal orientation only) and 12cm discs
- · Reads multi-session discs
- Reads CD-recordable discs
- Reads CD-RW discs
- Supports all major CD-ROM formats: Mode 1, Mode 2, XA, CDDA, and audio
- · Contains headphone output and line output for audio
- **Note:** This device is available as an auto-docking feature on some systems. See your system documentation for information about the auto-docking feature.

## Front View of the CD-ROM Drive



## Rear View of the CD-ROM Drive



Note: Audio is currently not enabled on server systems.

- 1. Audio Line-Out Connector
- 2. Jumper Block and Pins
- 3. 68-pin SCSI Interface Connector
- 4. Power Connector

# Chapter 2. Preparing to Install the 32X SCSI-2 CD-ROM Drive

This chapter covers all the things you need to do before you install your 32X SCSI-2 CD-ROM Drive. Preparing to install the drive involves the following tasks:

- · Verifying your hardware requirements
- Verifying your software requirements
- · Making sure your package is complete
- · Gathering tools and documentation
- · Planning your SCSI device layout
- · Determining your SCSI device address

#### **Verifying Your Hardware Requirements**

The 32X SCSI-2 CD-ROM Drive requires the following hardware:

- An available bay large enough to hold a 5-1/4 inch half-high device
- A SCSI-2 adapter, which is either *built into* or *on a separate adapter card inside* your system unit
- A SCSI interface cable

### **Verifying Your Software Requirements**

The 32X SCSI-2 CD-ROM Drive is supported on several operating systems, including AIX 3.2.5 or later. Ensure that your operating system supports this CD-ROM drive before you install it. Contact your service representative for assistance.

#### **Checking Your Package**

Check that your package contains the following items:

- The 32X SCSI-2 CD-ROM Drive
- · Mounting screws
- · A CD-ROM test disc
- · An 50 to 68 pin interposer
- · A registration card
- 7 jumpers (included on the jumper block)

Contact the place of purchase if an item is missing or damaged.

**Note:** Be sure to retain your proof of purchase, as it might be required to receive warranty service.

#### Gathering Tools and Documentation

To install the drive, you need the following items:

- · Flat-blade screwdriver
- · Your system unit documentation
- · Your operating system documentation

**Note:** If you are installing the auto-docking version of this device on your system, the remainder of this chapter does not apply to your system. See your system documentation for information about the auto-docking feature.

#### **Planning Your SCSI Device Layout**

SCSI devices include such hardware as disk drives, tape drives, CD-ROM drives, scanners, and printers. Some SCSI devices can be connected to or installed inside your system unit, while others can be installed externally. The devices are attached, in a daisy-chain configuration, to a SCSI adapter installed inside the system unit.

Each device in the chain has a unique SCSI address (also called a SCSI ID). When you connect more than one SCSI device, it is important that you plan the location and address of each device in the chain. You must also be sure to connect a terminator at each end of the chain. If you are using an internally connected device the SCSI adapter provides the termination for that end. The last attached device must terminate the other end of the chain.

If your configuration includes both internal and external devices, you must connect a terminator to the last external device and terminate the internal SCSI cable. The adapter terminates one end of the chain and the last device terminates the other end.

## **Determining Your SCSI Device Address**

Before you install the 32X SCSI-2 CD-ROM Drive, you must set the SCSI address on the drive. First, you must determine which SCSI addresses are available to use. Then you choose an address and install jumpers on the drive to set the selected address. You can use any available SCSI address as long as no two SCSI devices on the same chain use the same address. No device can use address 7, which is reserved for the SCSI adapter.

SCSI addresses are in sequential order from highest to lowest priority. Refer to Table 1 below for the priority associated with each SCSI address. For the best performance, choose the highest unused SCSI address between 6 and 0.

Note: Use only SCSI addresses 6 through 0 for this device.

Priority	SCSI Address	SCSI Device Name
Highest Priority	7	Adapter
Ŷ	6	
Ŷ	5	
Ŷ	4	
Ŷ	3	
Ŷ	2	
V	1	

Table 1. Data Access Priorities for SCSI Addresses

Priority	SCSI Address	SCSI Device Name
¥	0	
¥	15	
Ŷ	14	
¥	13	
Ŷ	12	
¥	11	
¥	10	
¥	9	
Lowest Priority	8	

Table 1. Data Access Priorities for SCSI Addresses (continued)

To find an available SCSI address on an AIX system, do the following:

1. At a system prompt, type:

lsdev -Cs scsi

Press Enter. Information similar to the following displays:

hdisk1 Available 00-01-00-1,0 1.0 GB SCSI Disk Drive

This information is interpreted as follows:

Column 1: device name (*hdisk1*) Column 2: device status (Available) Column 3: SCSI information (00-01-00-1,0) Column 4: device type (1.0 GB SCSI Disk Drive)

In this example, the SCSI address for the device name (*hdisk1*) is 1 as shown in the 1,0 portion of the string in column 3. The 0 in the 1,0 portion of the string is the SCSI bus number for that device.

 Find an available SCSI address for the CD-ROM drive and choose the highest-priority unused address for yours. On Table 1 on page 4, record the address you chose for your CD-ROM drive, as well as the names and addresses of any other installed SCSI devices. Save this information for future reference.

#### Setting the SCSI Address

After you choose an available SCSI address for your CD-ROM drive, you can install the jumpers on the drive to match the selected address. The SCSI address can be set from 0 to 6. Address 7 is reserved for the adapter. The 32X SCSI-2 CD-ROM Drive SCSI address is factory-set at 5. Refer to "Determining Your SCSI Device Address" on page 4 if you need instructions for selecting another SCSI address.

To set a SCSI address, you install jumpers onto pin positions 1, 2, or 3, located on the jumper block, to set each position to *Onor Off.* (See Table 2.) To set a position to On, insert a jumper onto both the top and bottom pins. To set a position to Off, insert the jumper onto the top pin only.

**Note:** Jumpers are also installed in other positions on the jumper block to enable or disable other functions.

Refer to "Rear View and Jumper Pin Positions on the 32X SCSI-2 CD-ROM Drive" on page 7 and to Table 2 as you go through the following steps to set the SCSI address on this drive:

Attention: Be sure to read "Handling Static-Sensitive Devices" on page vii before you begin.

- 1. Remove the drive from its bag.
- 2. Place the drive on top of the bag on a flat surface.
- 3. Refer to "Rear View and Jumper Pin Positions on the 32X SCSI-2 CD-ROM Drive" on page 7. Locate pin positions 1, 2, and 3 on the drive. They are the first three positions on the left side of the jumper block as you view the drive from the back. The SCSI address is factory-set to 5.
- 4. Using Table 2 as your guide, install jumpers in the correct positions to set the SCSI address you previously chose.

SCSI Address	Position 1	Position 3	Position 3
0	Off	Off	Off
1	On	Off	Off
2	Off	On	Off
3	On	On	Off
4	Off	Off	On
5	On	Off	On
6	Off	On	On

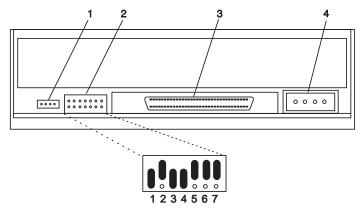
#### Table 2. SCSI Address Settings

- 5. Make sure the jumper on position **4** is set to On. This position enables proper parity.
- The jumper in position 5 should be set to Off. This sets the default sector size of the drive to 2K bytes. (Setting this position to On would make the default sector size 512 bytes.)
- 7. Make sure the jumper in position **6** is set to Off. Because this position does not enable or disable any function, you can use it as a spare jumper.
- 8. The jumper in position **7** should be set to Off. Because this position does not enable or disable any function, you can use it as a spare jumper.

You can remove spare jumpers and store them in a safe place or install them in the Off position on any unused pin position.

#### Rear View and Jumper Pin Positions on the 32X SCSI-2 CD-ROM Drive

The following figure shows the jumpers as they are set at the factory.



- 1. Audio Line Out Connector
- 2. Jumper Block and Jumper Pins
- 3. 68-pin SCSI Interface Connector
- 4. Power Connector

# Chapter 3. Installing the 32X SCSI-2 CD-ROM Drive

This chapter takes you through the steps of installing your 32X SCSI-2 CD-ROM Drive, which involves the following tasks:

- Setting the SCSI address (if necessary), see "Setting the SCSI Address" on page 5).
- · Installing the drive in your system unit
- · Connecting the CD-ROM drive
- Setting the vertical retaining tabs for a vertically mounted drive (optional installation)
- · Configuring the device driver software
- Verifying a successful installation
- **Note:** If you are installing the auto-docking version of this device on your system, the remainder of this chapter does not apply to your system. See your system documentation for information about the auto-docking feature.

#### Installing and Connecting the Drive

**Note:** Refer to your system unit documentation for safety information before you install and connect your CD-ROM Drive.

After you set the SCSI address on your drive, you can install it into your system unit. The 32X SCSI-2 CD-ROM Drive must be installed into an available system unit bay and connected to a SCSI cable and power cable. Refer to "Rear View and Jumper Pin Positions on the 32X SCSI-2 CD-ROM Drive" on page 7 as you go through the following steps to install and connect the drive:

1. Follow your operating system instructions for shutting down your system, then turn off the power to your system unit. On an AIX system, type:

shutdown -F

at the system prompt, press Enter. When halt completed displays, turn off the system unit power and unplug the power cord from the wall outlet.

- 2. Remove the covers of your system unit. Follow the instructions provided in your system unit documentation.
- 3. Install the drive in an available bay in your system unit. See the instructions in your system unit documentation for installing an internal device.
  - **Note:** Be sure to use the screws provided with this drive. Using the wrong size screws might cause damage to the drive.

If you are installing the drive into a vertical bay, see "Extending the Vertical Retaining Tabs" on page 11 for important additional instructions before using.

- 4. Plug the SCSI interface cable into the SCSI interface connector located on the back of the drive.
- 5. Plug the power cable into the power connector located on the back of the drive.
- 6. If an audio card is installed in your system, plug the audio cable into the audio connector located on the back of the drive.

- 7. Follow the directions provided in your system unit documentation to reinstall the covers of your system unit.
- 8. Plug the power cord back into the wall outlet.
- 9. Turn on the power to your system unit so that the operating system can update the system configuration.

Save this book and store any extra parts in a safe place in case you ever change your configuration.

## Configuring the 32X SCSI-2 CD-ROM Drive

To configure the CD-ROM drive after installation, reboot your system unit. Device drivers are provided in the AIX operating system and other operating systems that support the CD-ROM drive. Your operating system recognizes the drive and automatically updates your system unit configuration.

## Verifying the Installation

See the instructions provided in your system unit documentation for verifying the successful installation of the drive. To verify the installation on an AIX system, type:

lsdev -Cs scsi

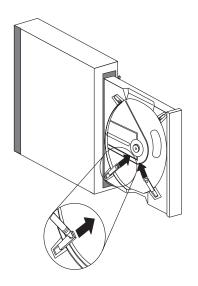
at the system prompt. Press Enter. A list of SCSI devices displays. An *Available* status indicates that the drive is installed and ready to use.

## **Extending the Vertical Retaining Tabs**

You can install the drive so that it operates in either a horizontal or vertical orientation. When the drive is operated in a vertical orientation, two retaining tabs on the CD-ROM tray must be extended to hold the compact disc during loading and unloading.

To extend the retaining tabs, do the following:

- 1. With the system-unit power on, press the Load/Unload button on the drive to eject the tray.
- 2. With a ball point pen or similar object, extend the two lower vertical retaining tabs.
  - **Note:** Do not extend the two upper tabs when you operate the drive in the vertical position. Do not extend *any* of the tabs when you operate the drive in the horizontal position.



## **Chapter 4. Installing Device Driver Software**

Device driver software is provided in AIX and other operating systems that support this CD-ROM drive. However, if you should have to install device drivers, follow the installation procedures provided in your operating system documentation. This chapter provides instructions for installing device drivers on an AIX system.

## Installing Device Drivers on an AIX System

To install device drivers, do the following:

- 1. At the system prompt, log in as a root user.
- 2. Insert the device driver media into the appropriate media device.
- 3. To start SMIT, type:

smit devinst

at the prompt. Press Enter. The Install Additional Device Software panel displays. The **INPUT device/directory for software** option is highlighted for selection.

- 4. Press F4 to display a list of input devices from which you can select. The cursor is already positioned on the input device entry field.
- Either type the name of the input device in the entry field or select the appropriate device, then press Enter. The Install Additional Device Software panel displays the device you selected in the INPUT device/directory for software field. The SOFTWARE to install option is highlighted.
- 6. Press F4 to display a list of the device packages you can install.
- 7. To display a Find dialog box, type:

/

in the field where the cursor is positioned.

8. Type the following device package name:

devices.scsi.disk.rte

- Press F7 to select the device package name, press Enter. The Install Additional Device Software panel displays the completed required fields.
- 10. Press Enter. The ARE YOU SURE list displays.
- 11. Press Enter. The COMMAND STATUS panel displays. The term RUNNING is highlighted, indicating that the software is being installed and configured.
- 12. When RUNNING changes to 0K, scroll to the bottom of the panel and locate the Installation Summary. If the installation was successful, SUCCESS displays at the bottom of the panel in the Result column of the Installation Summary.
- 13. Remove the device driver software media from the media device.
- 14. Press F10 to exit SMIT.
- 15. To shut down and restart your system, type:

shutdown -Fr

Press Enter. If you want to verify the installation, follow the steps provided in "Verifying the Installation" on page 10.

# Chapter 5. Using the32X SCSI-2 CD-ROM Drive

This chapter provides instructions for handling the 32X SCSI-2 CD-ROM Drive, as well as the CD-ROM discs.

**Note:** This device is available as an auto-docking feature on some systems. See your system documentation for information about the auto-docking feature.

#### **Understanding the Status Lights**

The status lights indicate information about the operational status of the drive, as described in the following table:

Status Light Condition	Meaning
Off	Drive is in standby mode with or without a disc loaded.
Blinking (Green)	Any of the following:
	<ul> <li>Drive tray is inserted. The light blinks while the drive completes the initialization checkout.</li> </ul>
	<ul> <li>Drive is reading data. The light blinks while data is being read.</li> </ul>
	<ul> <li>Drive is in Play Audio Mode. The light blinks while the audio is playing.</li> </ul>
On (Amber)	Hardware error condition found during initialization.

## Other Handling Considerations

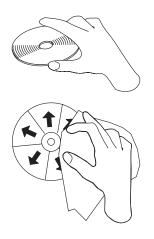
Be sure to take the following additional precautions when you use the CD-ROM drive:

- · Remove compact discs from the tray before you move the drive anywhere.
- · Do not place the drive where any of the following conditions exist:
  - High temperature
  - High humidity
  - Excessive dust
  - Excessive vibration or sudden shock
  - Inclined surface
  - Direct sunlight
- Do not insert foreign objects into the drive.
- Do not stack objects on the drive.
- · Do not remove the drive covers or attempt to service the drive yourself.

## Handling Compact Discs

Compact discs are high-density media that must be handled with care and kept clean to ensure that they remain readable. Use the following precautions to ensure reliability:

- · Hold the compact disc by the edges.
- Do not touch the surface of the compact disc.
- To remove dust or fingerprints, wipe the compact disc from the center to the outside of the compact disc, as shown.



Attention: Wiping the compact disc in a circular direction can cause loss of data.

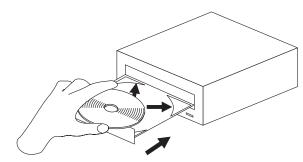
- · Do not write on the surface.
- · Do not store or place the compact disc in direct sunlight.
- Do not use benzene, thinners, or other cleaners to clean the compact disc.
- · Do not bend the compact disc.

#### Loading a Compact Disc Horizontally

To load a compact disc into a horizontally mounted drive, do the following:

- 1. Press the Load/Unload button to open the tray. The tray slides out of the drive.
- 2. Place the compact disc in the tray with the label facing up.
- 3. To close the tray, press the Load/Unload button, or gently push in the tray.
- **Note:** Be sure that none of the vertical retaining tabs are extended when you use the drive in the horizontal position. See "Extending the Vertical Retaining Tabs" on page 11

page 11.

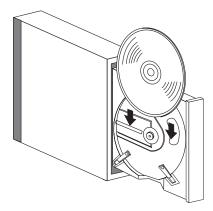


### Loading a Compact Disc Vertically

**Note:** The CD-ROM drive must be in the horizontal position if you are using an 8cm disc.

To load a compact disc into a vertically mounted drive, do the following:

- 1. Press the Load/Unload Button to open the tray. The tray slides out of the drive. Make sure the lower vertical retaining tabs are extended. See "Extending the Vertical Retaining Tabs" on page 11.
- 2. Insert the compact disc behind the tabs, label side out.
- 3. To close the tray, press the Load/Unload button, or gently push in the tray.



## **Opening the Tray Manually**

The tray should automatically open when you press the Load/Unload button. If it does not automatically open, follow these steps to manually open it:

1. Follow your operating system instructions for shutting down your system, then turn off the power to your system unit. Unplug the power cord from the wall outlet.

- 2. Insert the straightened end of a paper clip into the emergency eject hole until you feel some resistance. If you are not sure where the emergency eject hole is located, see "Front View of the CD-ROM Drive" on page 2.
- 3. Continue to push in the paper clip while you pull out the tray with your fingernail.
- 4. Pull the tray completely open and remove the disc. It is normal for the tray to make a clicking sound while you are pulling it open.

### Playing an Audio CD

To play an audio CD, you must either have headphones connected to the headphone jack located on the front of the drive or an audio card connected to the line-out connector located on the back of the drive. You must also have an audio software application installed.

The headphone jack provides the connection for headphones using a 3.5 mm (1/8-inch) stereo mini-plug. The volume control adjusts the audio output level for the headphones.

# **Appendix A. Communications Statements**

The following statement applies to this product. The statement for other products intended for use with this product appears in their accompanying documentation.

#### Federal Communications Commission (FCC) Statement

- **Note:** 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 instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television 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 the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - · Consult an authorized dealer or service representative for help.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Proper cables and connectors are available from authorized dealers. Neither the provider nor the manufacturer are responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

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.

Responsible Party:

- · International Business Machines Corporation
- New Orchard Road
- Armonk, New York 10504
- Telephone: (919) 543-2193



#### **European Union (EU) Statement**

This product is in conformity with the protection requirements of EU Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility. The manufacturer cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the fitting of option cards supplied by third parties. Consult with your dealer or sales representative for details on your specific hardware.

This product has been tested and found to comply with the limits for Class B Information Technology Equipment according to CISPR 22 / European Standard EN 55022. The limits for Class B equipment were derived for typical residential environments to provide reasonable protection against interference with licensed communication devices.

#### International Electrotechnical Commission (IEC) Statement

This product has been designed and built to comply with IEC Standard 950.

#### United Kingdom Telecommunications Safety Requirements

This equipment is manufactured to the International Safety Standard EN60950 and as such is approved in the UK under the General Approval Number NS/G/1234/J/100003 for indirect connection to the public telecommunication network.

The network adapter interfaces housed within this equipment are approved separately, each one having its own independent approval number. These interface adapters, supplied by the manufacturer, do not use or contain excessive voltages. An excessive voltage is one which exceeds 70.7 V peak ac or 120 V dc. They interface with this equipment using Safe Extra Low Voltages only. In order to maintain the separate (independent) approval of the manufacturer's adapters, it is essential that other optional cards, not supplied by the manufacturer, do not use main voltages or any other excessive voltages. Seek advice from a competent engineer before installing other adapters not supplied by the manufacturer.

#### Avis de conformité aux normes du ministère des Communications du Canada

Cet appareil numérique de la classe B est conform à la norme NMB-003 du Canada.

#### **Canadian Department of Communications Compliance Statement**

This Class B digital apparatus complies with Canadian ICES-003.

#### VCCI Statement

この装置は、情報処理装置等電波障害自主規制協議会(VCCI)の基準に 基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的 としていますが、この装置がラジオやテレビジョン受信機に近接して使用される と、受信障害を引き起こすことがあります。 取扱説明書に従って正しい取り扱いをして下さい。

The following is a summary of the VCCI Japanese statement in the box above.

This product is a Class B Information Technology Equipment and conforms to the standards set by the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). This product is aimed to be used in a domestic environment. When used near a radio or TV receiver, it may becaome the cause of radio interference. Read the instructions for correct handling.

#### **Radio Protection for Germany**

Dieses Gerät ist berechtigt in Übereinstimmung mit dem deutschen EMVG vom 9.Nov.92 das EG-Konformitätszeichen zu führen.

Der Aussteller der Konformitätserklärung ist die IBM Germany.

Dieses Gerät erfüllt die Bedingungen der EN 55022 Klasse B.

## **Appendix B. Notices**

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