

IBM 64MB NVIDIA Quadro4 200NVS VGA  
或 DVI-I 雙頭圖形配接卡



# 安裝手冊



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註: 使用本資訊和它支援的產品之前, 請閱讀第 B-1 頁的附錄 B, 『Notices』下面的資訊。

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## 安全資訊

安裝本產品之前，請閱讀「安全資訊」。

مج، يجب قراءة دات السلامة

Antes de instalar este produto, leia as Informações de Segurança.

在安裝本產品之前，請仔細閱讀 **Safety Information**  
(安全信息)。

Prije instalacije ovog produkta obavezno pročitajte Sigurnosne Upute.

Před instalací tohoto produktu si přečtěte příručku bezpečnostních instrukcí.

Læs sikkerhedsforskrifterne, før du installerer dette produkt.

Ennen kuin asennat tämän tuotteen, lue turvaohjeet kohdasta 安全資訊。

Avant d'installer ce produit, lisez les consignes de sécurité.

Vor der Installation dieses Produkts die Sicherheitshinweise lesen.

Πριν εγκαταστήσετε το προϊόν αυτό, διαβάστε τις πληροφορίες ασφάλειας  
(safety information).

לפני שתתקינו מוצר זה, קראו את הוראות הבטיחות.

A termék telepítése előtt olvassa el a Biztonsági előírásokat!

Prima di installare questo prodotto, leggere le Informazioni sulla Sicurezza.

製品の設置の前に、安全情報をお読みください。

본 제품을 설치하기 전에 안전 정보를 읽으십시오.

Пред да се инсталира овој продукт, прочитајте информацијата за безбедност.

Lees voordat u dit product installeert eerst de veiligheidsvoorschriften.

Les sikkerhetsinformasjonen (Safety Information) før du installerer dette produktet.

Przed zainstalowaniem tego produktu, należy zapoznać się  
z książką "Informacje dotyczące bezpieczeństwa" (Safety Information).

Antes de instalar este produto, leia as Informações sobre Segurança.

Перед установкой продукта прочтите инструкции по  
технике безопасности.

Pred inštaláciou tohto zariadenia si pečítajte Bezpečnostné predpisy.

Pred namestitvijo tega proizvoda preberite Varnostne informacije.

Antes de instalar este producto lea la información de seguridad.

Läs säkerhetsinformationen innan du installerar den här produkten.

安裝本產品之前，請先閱讀「安全資訊」。



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## 關於本書

本手冊包含安裝和使用 IBM 64MB NVIDIA Quadro4 200NVS VGA 或 DVI-I 雙頭圖形配接卡的說明。

有下列語言版本的產品說明和安裝說明：

- 英文
- 法文
- 德文
- 西班牙文
- 義大利文
- 捷克斯洛伐克文
- 斯洛伐克文
- 巴西葡萄牙文
- 繁體中文
- 日文
- 簡體中文

也有包含說明和服務、保證以及注意事項資訊的附錄。

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## 為您的選用設備註冊

感謝您購買這項 IBM 產品。請用一點時間註冊您的產品並提供我們資訊，此資訊將有助於 IBM 將來為您提供更好的服務。您的寶貴意見對於我們在開發產品和提供與您切身相關的服務，以及發展出更方便與您通訊的方法來說很有價值。請到 IBM 網站 <http://www.ibm.com/pc/register> 為您的選用設備註冊。

除非您在網站指示您不要接收進一步資訊，否則 IBM 將會傳給您關於您的註冊產品的資訊和更新版本。



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## 安裝配接卡

本章包含安裝 64MB NVIDIA Quadro4 200NVS 圖形配接卡與軟體的產品說明和指示。

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### 產品說明

64MB NVIDIA Quadro4 200NVS 圖形配接卡使用圖形加速埠 (AGP) 4x 技術和 Quadro4 200NVS 處理器，提供高效能的數位影像和 3D 圖形。此圖形配接卡具備 3D 和 2D 圖形加速的 256 位元圖形處理能力，以及轉換和光源引擎。它的 MPEG-2/DVD 動畫補償特性更強化全動畫視訊播放功能。此圖形配接卡也支援在含有轉接頭的數位顯示器上使用 DVI-D 介面。

除了本手冊外，選用設備包裝中還包含下列各項：

- 圖形配接卡
- 具有 Quadro4 200NVS 處理器的 64MB NVIDIA Quadro4 200NVS 圖形配接卡的安裝光碟
- 安全資訊手冊
- 雙重類比 (VGA) 纜線

**註：**若要訂購 64MB NVIDIA Quadro4 200NVS 圖形配接卡的雙重數位纜線，請到 IBM 網站 <http://www.ibm.com/shop/us/maintenancepartsdigital>，然後輸入 FRU 產品編號 48P7587，或撥電話 1-800-388-7080。

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### 準備安裝

在安裝圖形配接卡之前，請採取下列預防措施以避免靜電損壞電子零件：

- 在接觸任何電子零件之前，請先採取釋放人身靜電的安全措施。方法是用手接觸電腦金屬外框的部份。
- 除非您已經準備要安裝圖形配接卡，否則應將配接卡保存在防靜電的包裝容器中。而當您將配接卡從電腦中拆卸下來之後，也應將配接卡安置於原來的防靜電包裝中。
- 在處理搬運圖形配接卡時，應以手持配接卡邊緣的部份而避免接觸其中的電路或元件。

## 安裝 64MB NVIDIA Quadro4 200NVS 圖形配接卡

若要安裝 64MB NVIDIA Quadro4 200NVS 圖形配接卡，請完成下列程序：

1. 完成下列步驟以準備在電腦內安裝配接卡：
  - a. 關閉所有附屬裝置的電源，然後關閉電腦的電源。
  - b. 拔掉電腦以及附屬裝置所有的電線及電源線。
  - c. 拆除電腦的外殼。有關如何拆卸電腦外殼的說明，請參閱隨附於電腦的說明文件。

如果您使用的是 IBM® 的電腦，有關開啓電腦外殼、拆卸原有的配接卡和安裝新配接卡的相關作業，請參閱使用手冊中的相關章節。

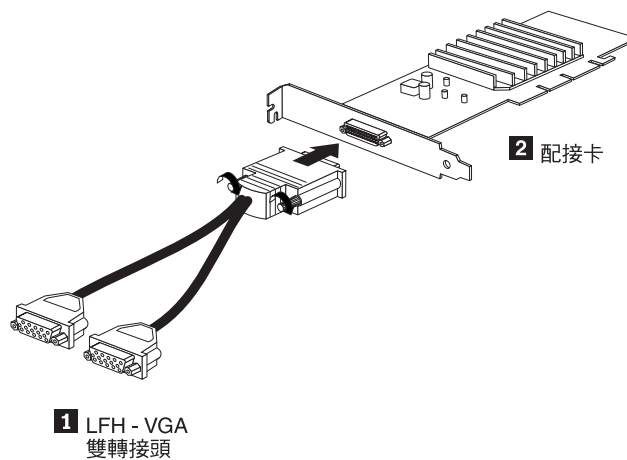
2. 先移除原先安裝的圖形配接卡。如果電腦主機板有內建 VGA 圖形能力，請確定已停用 VGA 圖形能力。有關如何停用使用電腦中 VGA 圖形能力的相關資訊，請參閱隨附於您電腦包裝中的相關文件。
3. 選擇 AGP 擴充槽。

**警告：** 如果將圖形配接卡插入規格錯誤的插槽中，可能會損壞配接卡或電腦本身。

若要識別您電腦中的擴充槽型式以及所有的位置，請參閱隨附於您電腦包裝中的文件。

**警告：** 請務將連接器接腳旁的塑膠卡栓也插入擴充槽中。

4. 拆除選取的擴充槽的擴充槽外殼。妥善保存卸下來的螺絲與安裝托架。
5. 將圖形配接卡安置於選取的擴充槽上方。將圖形配接卡向下壓入插槽內，應確定配接卡已穩固插入插槽中。
6. 使用由擴充槽蓋板所卸下的螺絲，將圖形配接卡的托架固定於電腦外框上，上緊螺絲。
7. 回裝電腦的外殼。
8. 若要將顯示器連接到系統，請執行下列步驟：
  - a. 按照下圖所示，將 LFH-VGA 雙轉接頭 **1** 插入配接卡 **2**。



**註：** 如果連接到數位 (DVI) 顯示器，您必須使用 LFH-DVI-I 雙轉換纜線（單獨銷售）。您可以在第 1-1 頁的『產品說明』之下找到訂購資訊。

- b. 將顯示器接線插入有標示 "1" 的適當轉接頭。

- c. 再將顯示器接線另一端的接頭插備您顯示器上對應的接頭插孔中。

請參閱隨附於您顯示器的說明文件，以確定顯示器已正確地安裝。

9. 完成下列步驟以準備使用電腦：
  - a. 將其他附屬裝置與電腦之間的配線插好。
  - b. 將電腦、顯示器以及其他附屬裝置的電源線插入電源插座。
  - c. 開啓電腦以及所有附屬裝置的電源。

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## 安裝裝置驅動程式

本節包含在使用 Microsoft® Windows® 98SE、Microsoft Windows 2000 Professional、Microsoft Windows NT® Workstation 和 Microsoft Windows Millennium Edition (Me) 等系統，安裝 64MB NVIDIA Quadro4 200NVS 圖形配接卡的裝置驅動程式之說明。請參考與您使用的作業系統相關的章節。

### 安裝 Windows 98SE 版的裝置驅動程式

若要安裝使用 Windows SE 系統的裝置驅動程式，請完成下列程序：

1. 從 Windows 桌面中，按一下**開始**，按一下**設定**，然後按一下**控制台**。
2. 連按兩下**顯示器**，然後再按**設定**標籤。
3. 按一下**進階**，再按**配接卡**標籤，接著再按**變更**。
4. 按一下**下一步**，再按**顯示所有驅動程式名單**，我要自己選擇適合的驅動程式，然後再按**下一步**。
5. 按一下**顯示所有的裝置**。
6. 在「製造廠商」清單中，選取「**標準的視訊卡類型**」。
7. 從「型號」清單中選取 **Standard PCI Graphics Adapter (VGA)**，然後再按**下一步**。
8. 按一下**下一步**，即會安裝驅動程式，接著再按**完成**。
9. 按一下**套用**，接著再按**關閉**。
10. 請先停止作業系統再關機。
11. 請移除先前的圖形配接卡再插入新卡。
12. 當 Windows 98 重新啓動後，按一下**開始**，然後再按**設定**，接著再按**控制台**。
13. 連按兩下**顯示器**，然後再按**設定**標籤。
14. 按一下**進階**，再按**配接卡**標籤，接著再按**變更**。
15. 按一下**下一步**，再按**顯示所有驅動程式名單**，我要自己選擇適合的驅動程式，接著再按**下一步**。
16. 請插入光碟。按一下**從磁片安裝**，然後以選取或輸入的方式指定光碟上裝置驅動程式所在的路徑，然後再按**確定**。  
  
**註:** 如果 Windows 找不到 64MB NVIDIA Quadro4 200NVS 圖形配接卡的檔案，請確定 CD-ROM 的路徑是否正確以及是否放入正確的光碟。
17. 從光碟中選擇您所使用的作業系統。當 Windows 找到所需的檔案時，請按一下**確定**，接著再按**下一步**。Windows 會自動將所需的檔案複製到硬碟中。
18. 按一下**完成**，再按**套用**，接著再按**關閉**。
19. 按一下**是**，重新啓動電腦。

## 安裝 Windows 2000 版的裝置驅動程式

若要安裝使用 Windows 2000 系統的裝置驅動程式，請完成下列程序：

1. 從 Windows 桌面中，按一下**開始**，按一下**設定**，然後按一下**控制台**。
2. 連按兩下**顯示器**，然後再按**設定**標籤。
3. 按一下**進階**，再按**介面卡**標籤，接著再按**內容**。
4. 按一下**驅動程式**標籤，接著再按**更新驅動程式**。
5. 按一下**下一步**。
6. 選取**請顯示這個裝置目前的驅動程式清單**，讓我從清單中指定驅動程式。
7. 按一下**從磁片安裝**。
8. 請插入光碟，然後以選取或輸入的方式指定光碟機的路徑。
9. 按一下**瀏覽**，然後再按**開啓**，接著再按**確定**。
10. 從「機型」清單，選取 **NVIDIA Quadro4 200NVS**，然後按一下**下一步**。

**註：**如果 Windows 找不到 64MB NVIDIA Quadro4 200NVS 圖形配接卡的檔案，請確定 CD-ROM 的路徑是否正確以及是否放入正確的光碟。

11. 按一下**下一步**，然後按**完成**。
12. 按一下**是**，重新啓動電腦。

## 安裝 Windows NT 版的裝置驅動程式

若要安裝使用 Windows NT 系統的裝置驅動程式，請完成下列程序：

1. 從 Windows 桌面中，按一下**開始**，按一下**設定**，然後按一下**控制台**。
2. 連按兩下**顯示**，然後再按**設定值**標籤。
3. 按一下**顯示類型**。
4. 按一下**變更**。
5. 在「製造商」清單中，選取「**標準顯示類型**」，並在「顯示」清單中指定 **VGA 相容顯示卡**。
6. 按一下**確定**，在下一個畫面中，再按**確定**。
7. 關閉所有的視窗、停止作業系統再關機。
8. 請移除先前的圖形配接卡再插入新卡。
9. 開啓電腦的電源。
10. 啓動 Windows NT。
11. 當 Windows NT 重新啓動後，按一下**開始**，再按**設定**，接著再按**控制台**。
12. 連按兩下**顯示**，然後再按**設定值**標籤。
13. 按一下**顯示類型**，再按**變更**。
14. 請插入光碟。按一下**從磁片安裝**。
15. 按一下**瀏覽**後，再按光碟機。
16. 連按兩下**驅動程式**，連按兩下 **Quadro4 200NVS**，然後連按兩下**作業系統**。

**註：**如果 Windows 找不到 64MB NVIDIA Quadro4 200NVS 圖形配接卡的檔案，請確定 CD-ROM 的路徑是否正確以及是否放入正確的光碟。

17. 按一下**開啓**，再按一下**確定**。
18. 選取 **NVIDIA Quadro4 200NVS**，然後按一下**是**來複製檔案。檔案會複製到硬碟。
19. 按一下**確定**並關閉所有視窗，然後按一下**是**，重新啓動電腦。電腦即可重新啓動。

## 安裝 Windows Me 版的裝置驅動程式

若要安裝使用 Windows Me 系統的裝置驅動程式，請完成下列程序：

1. 從 Windows 桌面中，按一下**開始**，按一下**設定**，然後按一下**控制台**。
2. 連按兩下**顯示器**，然後再按**設定**標籤。
3. 按一下**進階**，然後選取**配接卡**標籤，接著再按**變更**。
4. 選取**指定驅動程式的位置**（**進階**），接著再按**下一步**。
5. 選取**顯示所有驅動程式名單**，**我要自己選擇適合的驅動程式**，然後再按**下一步**。
6. 選取**顯示所有的裝置**。
7. 從「製造廠商」清單中選取**標準顯示器類型**。
8. 從「型號」清單中選取 **Standard PCI Graphics Adapter (VGA)**，然後再按**下一步**。
9. 按一下**下一步**，然後按**完成**。
10. 請先停止作業系統再重新啟動電腦。
11. 請移除先前的圖形配接卡再插入新卡。
12. 當 Windows Me 重新啟動後，按一下**開始**，然後按**設定**，接著再按**控制台**。
13. 連按兩下**顯示器**，然後再按**設定**標籤。
14. 按一下**進階**，再按**配接卡**標籤，接著再按**變更**。
15. 選取**指定驅動程式的位置**，然後再按**下一步**。
16. 選取**顯示所有驅動程式名單**，**我要自己選擇適合的驅動程式**，然後再按**下一步**。
17. 選取**顯示所有的裝置**。
18. 請插入光碟。按一下**從磁片安裝**，然後以選取或輸入的方式指定光碟上裝置驅動程式所在的路徑。
19. 按一下**瀏覽**，連按兩下**驅動程式**，然後連按兩下 **Quadro4 200NVS**。  
  
註：如果 Windows 找不到 64MB NVIDIA Quadro4 200NVS 圖形配接卡的檔案，請確定 CD-ROM 的路徑是否正確以及是否放入正確的光碟。
20. 連按兩下您所使用的作業系統，然後按一下**確定**。
21. 按一下**確定**，再按一下**確定**，然後再按**下一步**。Windows 會開始複製檔案。
22. 一旦複製完成，請按一下**完成**，然後按**是**，即可重新啟動電腦。

## 安裝 Windows XP 版的裝置驅動程式

若要安裝使用 Windows XP 系統的裝置驅動程式，請完成下列程序：

1. 啟動 Windows XP。
2. 插入隨圖形配接卡附贈的裝置驅動程式光碟。
3. 按一下**開始**，然後按一下**控制台**。
4. 選取**外觀和主題**。
5. 從「或選取「控制台」圖示」區段選取**顯示**。
6. 選取**設定值**標籤。
7. 按一下**進階**，按一下**介面卡**標籤，然後按一下**內容**。
8. 按一下**驅動程式**標籤，然後按一下**更新驅動程式**。
9. 選取**從清單或特定位置安裝**（**進階**）。

10. 按一下下一步。
11. 選取在這些位置中搜尋最好的驅動程式。
12. 選取搜尋可卸除式媒體（軟碟、CD-ROM...）。
13. 按一下下一步。
14. 按一下完成。
15. 按一下關閉。
16. 按一下是，重新啓動電腦。

### 使用控制台的傳統檢視

若要將控制台設定為傳統檢視，請完成下列程序：

1. 從 Windows 桌面中，按一下開始，然後按一下控制台。
2. 選取外觀和主題。
3. 連按兩下顯示，然後按一下設定值標籤。
4. 按一下進階，按一下介面卡標籤，然後按一下更新驅動程式。
5. 選取從清單或特定位置安裝（進階）。
6. 按一下下一步。
7. 選取在這些位置中搜尋最好的驅動程式。
8. 選取搜尋可卸除式媒體（軟碟、CD-ROM...）。
9. 按一下下一步。
10. 按一下完成。
11. 按一下關閉。
12. 按一下是，重新啓動電腦。

### 解除安裝的說明

若要解除安裝裝置驅動程式，請完成下列程序：

1. 按一下開始，選取設定，然後按一下控制台，或是對於 Windows XP 來說，請按一下開始，然後按一下控制台。
2. 連按兩下或選取新增或移除程式，然後選取 **NVIDIA XXXXX** 顯示驅動程式，其中 XXXXX 您的作業系統。
3. 按一下新增/移除或變更/移除。
4. 按一下是，確認您想要移除所指定的裝置驅動程式。
5. 按一下是，重新啓動電腦。



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## 附錄 A. Warranty information

This section contains the warranty period for your product, information about obtaining warranty service and support, and the IBM Statement of Limited Warranty.

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### Warranty period

Contact your place of purchase for warranty service information. Some IBM Machines are eligible for on-site warranty service depending on the country or region where service is performed.

<b>Machine</b> - 64MB NVIDIA Quadro4 200NVS VGA or DVI-I Dual Head Graphics Adapter by IBM
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<b>Warranty period</b> - One year
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### Service and support

The following information describes the technical support that is available for your product, during the warranty period or throughout the life of the product. Refer to your IBM Statement of Limited Warranty for a full explanation of IBM warranty terms.

#### Warranty information on the World Wide Web

The IBM Machine Warranties Web site at [http://www.ibm.com/servers/support/machine\\_warranties/](http://www.ibm.com/servers/support/machine_warranties/) contains a worldwide overview of the IBM Limited Warranty for IBM Machines, a glossary of terms used in the Statement of Limited Warranty, Frequently Asked Questions (FAQ), and links to Product Support Web pages. The IBM Statement of Limited Warranty is available from this Web site in 29 languages in Portable Document Format (PDF).

#### Online technical support

Online technical support is available during the life of your product through the Personal Computing Support Web site at <http://www.ibm.com/pc/support/>.

During the warranty period, assistance for replacement or exchange of defective components is available. In addition, if your IBM option is installed in an IBM computer, you might be entitled to service at your location. Your technical support representative can help you determine the best alternative.

#### Telephone technical support

Installation and configuration support through the IBM HelpCenter<sup>®</sup> will be withdrawn or made available for a fee, at IBM's discretion, 90 days after the option has been withdrawn from marketing. Additional support offerings, including step-by-step installation assistance, are available for a nominal fee.

To assist the technical support representative, have available as much of the following information as possible:

- Option name
- Option number
- Proof of purchase
- Computer manufacturer, model, serial number (if IBM), and manual
- Exact wording of the error message (if any)
- Description of the problem
- Hardware and software configuration information for your system

If possible, be at your computer. Your technical support representative might want to walk you through the problem during the call.

For the support telephone number and support hours by country, refer to the following table. If the number for your country or region is not listed, contact your IBM reseller or IBM marketing representative. Response time may vary depending on the number and nature of the calls received.

<b>Support 24 hours a day, 7 days a week</b>	
Canada (Toronto only)	416-383-3344
Canada (all other)	1-800-565-3344
U.S.A. and Puerto Rico	1-800-772-2227
All other countries and regions	Go to <a href="http://www.ibm.com/pc/support/">http://www.ibm.com/pc/support/</a> , and click <b>Support Phone List</b> .

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## IBM Statement of Limited Warranty Z125-4753-06 8/2000

### Part 1 - General Terms

This Statement of Limited Warranty includes Part 1 - General Terms and Part 2 - Country-unique Terms. The terms of Part 2 replace or modify those of Part 1. The warranties provided by IBM in this Statement of Limited Warranty apply only to Machines you purchase for your use, and not for resale, from IBM or your reseller. The term 『Machine』 means an IBM machine, its features, conversions, upgrades, elements, or accessories, or any combination of them. The term 『Machine』 does not include any software programs, whether pre-loaded with the Machine, installed subsequently or otherwise. Unless IBM specifies otherwise, the following warranties apply only in the country where you acquire the Machine. Nothing in this Statement of Limited Warranty affects any statutory rights of consumers that cannot be waived or limited by contract. If you have any questions, contact IBM or your reseller.

**The IBM Warranty for Machines:** IBM warrants that each Machine 1) is free from defects in materials and workmanship and 2) conforms to IBM's Official Published Specifications ( 『Specifications』 ). The warranty period for a Machine is a specified, fixed period commencing on its Date of Installation. The date on your sales receipt is the Date of Installation unless IBM or your reseller informs you otherwise.

If a Machine does not function as warranted during the warranty period, and IBM or your reseller are unable to either 1) make it do so or 2) replace it with one that is at least functionally equivalent, you may return it to your place of purchase and your money will be refunded.

**Extent of Warranty:** The warranty does not cover the repair or exchange of a Machine resulting from misuse, accident, modification, unsuitable physical or operating environment, improper maintenance by you, or failure caused by a product for which IBM is not responsible. The warranty is voided by removal or alteration of Machine or parts identification labels.

**THESE WARRANTIES ARE YOUR EXCLUSIVE WARRANTIES AND REPLACE ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THESE WARRANTIES GIVE YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM JURISDICTION TO JURISDICTION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF EXPRESS OR IMPLIED WARRANTIES, SO THE ABOVE EXCLUSION OR LIMITATION MAY NOT APPLY TO YOU. IN THAT EVENT, SUCH WARRANTIES ARE LIMITED IN DURATION TO THE WARRANTY PERIOD. NO WARRANTIES APPLY AFTER THAT PERIOD.**

**Items Not Covered by Warranty:** IBM does not warrant uninterrupted or error-free operation of a Machine. Any technical or other support provided for a Machine under warranty, such as assistance via telephone with 『how-to』 questions and those regarding Machine set-up and installation, will be provided **WITHOUT WARRANTIES OF ANY KIND.**

**Warranty Service:** To obtain warranty service for a Machine, contact IBM or your reseller. If you do not register your Machine with IBM, you may be required to present proof of purchase.

During the warranty period, IBM or your reseller, if approved by IBM to provide warranty service, provides without charge certain types of repair and exchange service to keep Machines in, or restore them to, conformance with their Specifications. IBM or your reseller will inform you of the available types of service for a Machine based on its country of installation. At its discretion, IBM or your reseller will 1) either repair or exchange the failing Machine and 2) provide the service either at your location or a service center. IBM or your reseller will also manage and install selected engineering changes that apply to the Machine.

Some parts of IBM Machines are designated as Customer Replaceable Units (called 『CRUs』), e.g., keyboards, memory, or hard disk drives. IBM ships CRUs to you for replacement by you. You must return all defective CRUs to IBM within 30 days of your receipt of the replacement CRU. You are responsible for downloading designated Machine Code and Licensed Internal Code updates from an IBM Internet Web site or from other electronic media, and following the instructions that IBM provides.

When warranty service involves the exchange of a Machine or part, the item IBM or your reseller replaces becomes its property and the replacement becomes yours. You represent that all removed items are genuine and unaltered. The replacement may not be new, but will be in good working order and at least functionally equivalent to the item replaced. The replacement assumes the warranty service status of the replaced item. Many features, conversions, or upgrades involve the removal of parts and their return to IBM. A part that replaces a removed part will assume the warranty service status of the removed part.

Before IBM or your reseller exchanges a Machine or part, you agree to remove all features, parts, options, alterations, and attachments not under warranty service.

You also agree to

1. ensure that the Machine is free of any legal obligations or restrictions that prevent its exchange;
2. obtain authorization from the owner to have IBM or your reseller service a Machine that you do not own; and
3. where applicable, before service is provided:
  - a. follow the problem determination, problem analysis, and service request procedures that IBM or your reseller provides;
  - b. secure all programs, data, and funds contained in a Machine;
  - c. provide IBM or your reseller with sufficient, free, and safe access to your facilities to permit them to fulfill their obligations; and
  - d. inform IBM or your reseller of changes in a Machine's location.

IBM is responsible for loss of, or damage to, your Machine while it is 1) in IBM's possession or 2) in transit in those cases where IBM is responsible for the transportation charges.

Neither IBM nor your reseller is responsible for any of your confidential, proprietary or personal information contained in a Machine which you return to IBM or your reseller for any reason. You should remove all such information from the Machine prior to its return.

**Limitation of Liability:** Circumstances may arise where, because of a default on IBM's part or other liability, you are entitled to recover damages from IBM. In each such instance, regardless of the basis on which you are entitled to claim damages from IBM (including fundamental breach, negligence, misrepresentation, or other contract or tort claim), except for any liability that cannot be waived or limited by applicable laws, IBM is liable for no more than

1. damages for bodily injury (including death) and damage to real property and tangible personal property; and
2. the amount of any other actual direct damages, up to the charges (if recurring, 12 months' charges apply) for the Machine that is subject of the claim. For purposes of this item, the term 『Machine』 includes Machine Code and Licensed Internal Code.

This limit also applies to IBM's suppliers and your reseller. It is the maximum for which IBM, its suppliers, and your reseller are collectively responsible.

**UNDER NO CIRCUMSTANCES IS IBM LIABLE FOR ANY OF THE FOLLOWING: 1) THIRD-PARTY CLAIMS AGAINST YOU FOR DAMAGES (OTHER THAN THOSE UNDER THE FIRST ITEM LISTED ABOVE); 2) LOSS OF, OR DAMAGE TO, YOUR RECORDS OR DATA; OR 3) SPECIAL, INCIDENTAL, OR INDIRECT DAMAGES OR FOR ANY ECONOMIC CONSEQUENTIAL DAMAGES, LOST PROFITS OR LOST SAVINGS, EVEN IF IBM, ITS SUPPLIERS OR YOUR RESELLER IS INFORMED OF THEIR POSSIBILITY. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.**

### **Governing Law**

**Governing Law:** Both you and IBM consent to the application of the laws of the country in which you acquired the Machine to govern, interpret, and enforce all of your and IBM's rights, duties, and obligations arising from, or relating in any manner to, the subject matter of this Agreement, without regard to conflict of law principles.

## **Part 2 - Country-unique Terms**

### **AMERICAS**

#### **BRAZIL**

**Governing Law:** *The following is added after the first sentence:*

Any litigation arising from this Agreement will be settled exclusively by the court of Rio de Janeiro.

### **NORTH AMERICA**

**Warranty Service:** *The following is added to this Section:*

To obtain warranty service from IBM in Canada or the United States, call 1-800-IBM-SERV (426-7378).

## **CANADA**

**Governing Law:** *The following replaces 『laws of the country in which you acquired the Machine』 in the first sentence:*

laws in the Province of Ontario.

## **UNITED STATES**

**Governing Law:** *The following replaces 『laws of the country in which you acquired the Machine』 in the first sentence:*

laws of the State of New York.

## **ASIA PACIFIC**

### **AUSTRALIA**

**The IBM Warranty for Machines:** *The following paragraph is added to this Section:*

The warranties specified in this Section are in addition to any rights you may have under the Trade Practices Act 1974 or other similar legislation and are only limited to the extent permitted by the applicable legislation.

**Limitation of Liability:** *The following is added to this Section:*

Where IBM is in breach of a condition or warranty implied by the Trade Practices Act 1974 or other similar legislation, IBM's liability is limited to the repair or replacement of the goods or the supply of equivalent goods. Where that condition or warranty relates to right to sell, quiet possession or clear title, or the goods are of a kind ordinarily acquired for personal, domestic or household use or consumption, then none of the limitations in this paragraph apply.

**Governing Law:** *The following replaces 『laws of the country in which you acquired the Machine』 in the first sentence:*

laws of the State or Territory.

### **CAMBODIA, LAOS, AND VIETNAM**

**Governing Law:** *The following replaces 『laws of the country in which you acquired the Machine』 in the first sentence:*

laws of the State of New York.

*The following is added to this Section:*

Disputes and differences arising out of or in connection with this Agreement shall be finally settled by arbitration which shall be held in Singapore in accordance with the rules of the International Chamber of Commerce (ICC). The arbitrator or arbitrators designated in conformity with those rules shall have the power to rule on their own competence and on the validity of the Agreement to submit to arbitration. The arbitration award shall be final and binding for the parties without appeal and the arbitral award shall be in writing and set forth the findings of fact and the conclusions of law.

All proceedings shall be conducted, including all documents presented in such proceedings, in the English language. The number of arbitrators shall be three, with each side to the dispute being entitled to appoint one arbitrator.

The two arbitrators appointed by the parties shall appoint a third arbitrator before proceeding upon the reference. The third arbitrator shall act as chairman of the proceedings. Vacancies in the post of chairman shall be filled by the president of the ICC. Other vacancies shall be filled by the respective nominating party. Proceedings shall continue from the stage they were at when the vacancy occurred.

If one of the parties refuses or otherwise fails to appoint an arbitrator within 30 days of the date the other party appoints its, the first appointed arbitrator shall be the sole arbitrator, provided that the arbitrator was validly and properly appointed.

The English language version of this Agreement prevails over any other language version.

## **HONG KONG AND MACAU**

**Governing Law:** *The following replaces 『laws of the country in which you acquired the Machine』 in the first sentence:*

laws of Hong Kong Special Administrative Region.

## **INDIA**

**Limitation of Liability:** *The following replaces items 1 and 2 of this Section:*

1. liability for bodily injury (including death) or damage to real property and tangible personal property will be limited to that caused by IBM's negligence;
2. as to any other actual damage arising in any situation involving nonperformance by IBM pursuant to, or in any way related to the subject of this Statement of Limited Warranty, IBM's liability will be limited to the charge paid by you for the individual Machine that is the subject of the claim.

## **JAPAN**

**Governing Law:** *The following sentence is added to this Section:*

Any doubts concerning this Agreement will be initially resolved between us in good faith and in accordance with the principle of mutual trust.

## **NEW ZEALAND**

**The IBM Warranty for Machines:** *The following paragraph is added to this Section:*

The warranties specified in this Section are in addition to any rights you may have under the Consumer Guarantees Act 1993 or other legislation which cannot be excluded or limited. The Consumer Guarantees Act 1993 will not apply in respect of any goods which IBM provides, if you require the goods for the purposes of a business as defined in that Act.

**Limitation of Liability:** *The following is added to this Section:*

Where Machines are not acquired for the purposes of a business as defined in the Consumer Guarantees Act 1993, the limitations in this Section are subject to the limitations in that Act.

## **PEOPLE'S REPUBLIC OF CHINA (PRC)**

**Governing Law:** *The following replaces this Section:*

Both you and IBM consent to the application of the laws of the State of New York (except when local law requires otherwise) to govern, interpret, and enforce all your and IBM's rights, duties, and obligations arising from, or relating in any manner to, the subject matter of this Agreement, without regard to conflict of law principles.

Any disputes arising from or in connection with this Agreement will first be resolved by friendly negotiations, failing which either of us has the right to submit the dispute to the China International Economic and Trade Arbitration Commission in Beijing, the PRC, for arbitration in accordance with its arbitration rules in force at the time. The arbitration tribunal will consist of three arbitrators. The language to be used therein will be English and Chinese. An arbitral award will be final and binding on all the parties, and will be enforceable under the Convention on the Recognition and Enforcement of Foreign Arbitral Awards (1958).

The arbitration fee will be borne by the losing party unless otherwise determined by the arbitral award.

During the course of arbitration, this Agreement will continue to be performed except for the part which the parties are disputing and which is undergoing arbitration.

#### **EUROPE, MIDDLE EAST, AFRICA (EMEA)**

##### ***THE FOLLOWING TERMS APPLY TO ALL EMEA COUNTRIES:***

The terms of this Statement of Limited Warranty apply to Machines purchased from IBM or an IBM reseller.

**Warranty Service:** If you purchase an IBM Machine in Austria, Belgium, Denmark, Estonia, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland or United Kingdom, you may obtain warranty service for that Machine in any of those countries from either (1) an IBM reseller approved to perform warranty service or (2) from IBM. If you purchase an IBM Personal Computer Machine in Albania, Armenia, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Georgia, Hungary, Kazakhstan, Kirghizia, Federal Republic of Yugoslavia, Former Yugoslav Republic of Macedonia (FYROM), Moldova, Poland, Romania, Russia, Slovak Republic, Slovenia, or Ukraine, you may obtain warranty service for that Machine in any of those countries from either (1) an IBM reseller approved to perform warranty service or (2) from IBM.

If you purchase an IBM Machine in a Middle Eastern or African country, you may obtain warranty service for that Machine from the IBM entity within the country of purchase, if that IBM entity provides warranty service in that country, or from an IBM reseller, approved by IBM to perform warranty service on that Machine in that country. Warranty service in Africa is available within 50 kilometers of an IBM authorized service provider. You are responsible for transportation costs for Machines located outside 50 kilometers of an IBM authorized service provider.

**Governing Law:** The applicable laws that govern, interpret and enforce rights, duties, and obligations of each of us arising from, or relating in any manner to, the subject matter of this Statement, without regard to conflict of laws principles, as well as Country-unique



terms and competent court for this Statement are those of the country in which the warranty service is being provided, except that in 1) Albania, Bosnia-Herzegovina, Bulgaria, Croatia, Hungary, Former Yugoslav Republic of Macedonia, Romania, Slovakia, Slovenia, Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan, the laws of Austria apply; 2) Estonia, Latvia, and Lithuania, the laws of Finland apply; 3) Algeria, Benin, Burkina Faso, Cameroon, Cape Verde, Central African Republic, Chad, Congo, Djibouti, Democratic Republic of Congo, Equatorial Guinea, France, Gabon, Gambia, Guinea, Guinea-Bissau, Ivory Coast, Lebanon, Mali, Mauritania, Morocco, Niger, Senegal, Togo, and Tunisia, this Agreement will be construed and the legal relations between the parties will be determined in accordance with the French laws and all disputes arising out of this Agreement or related to its violation or execution, including summary proceedings, will be settled exclusively by the Commercial Court of Paris; 4) Angola, Bahrain, Botswana, Burundi, Egypt, Eritrea, Ethiopia, Ghana, Jordan, Kenya, Kuwait, Liberia, Malawi, Malta, Mozambique, Nigeria, Oman, Pakistan, Qatar, Rwanda, Sao Tome, Saudi Arabia, Sierra Leone, Somalia, Tanzania, Uganda, United Arab Emirates, United Kingdom, West Bank/Gaza, Yemen, Zambia, and Zimbabwe, this Agreement will be governed by English Law and disputes relating to it will be submitted to the exclusive jurisdiction of the English courts; and 5) in Greece, Israel, Italy, Portugal, and Spain any legal claim arising out of this Statement will be brought before, and finally settled by, the competent court of Athens, Tel Aviv, Milan, Lisbon, and Madrid, respectively.

***THE FOLLOWING TERMS APPLY TO THE COUNTRY SPECIFIED:***

**AUSTRIA AND GERMANY**

**The IBM Warranty for Machines:** *The following replaces the first sentence of the first paragraph of this Section:*

The warranty for an IBM Machine covers the functionality of the Machine for its normal use and the Machine's conformity to its Specifications.

*The following paragraphs are added to this Section:*

The minimum warranty period for Machines is six months. In case IBM or your reseller is unable to repair an IBM Machine, you can alternatively ask for a partial refund as far as justified by the reduced value of the unrepaired Machine or ask for a cancellation of the respective agreement for such Machine and get your money refunded.

**Extent of Warranty:** *The second paragraph does not apply.*

**Warranty Service:** *The following is added to this Section:*

During the warranty period, transportation for delivery of the failing Machine to IBM will be at IBM's expense.

**Limitation of Liability:** *The following paragraph is added to this Section:*

The limitations and exclusions specified in the Statement of Limited Warranty will not apply to damages caused by IBM with fraud or gross negligence and for express warranty.

*The following sentence is added to the end of item 2:*

IBM's liability under this item is limited to the violation of essential contractual terms in cases of ordinary negligence.

## EGYPT

**Limitation of Liability:** *The following replaces item 2 in this Section:*

as to any other actual direct damages, IBM's liability will be limited to the total amount you paid for the Machine that is the subject of the claim. For purposes of this item, the term 『Machine』 includes Machine Code and Licensed Internal Code.

*Applicability of suppliers and resellers (unchanged).*

## FRANCE

**Limitation of Liability:** *The following replaces the second sentence of the first paragraph of this Section:*

In such instances, regardless of the basis on which you are entitled to claim damages from IBM, IBM is liable for no more than: *(items 1 and 2 unchanged).*

## IRELAND

**Extent of Warranty:** *The following is added to this Section:*

Except as expressly provided in these terms and conditions, all statutory conditions, including all warranties implied, but without prejudice to the generality of the foregoing all warranties implied by the Sale of Goods Act 1893 or the Sale of Goods and Supply of Services Act 1980 are hereby excluded.

**Limitation of Liability:** *The following replaces items one and two of the first paragraph of this Section:*

1. death or personal injury or physical damage to your real property solely caused by IBM's negligence; and
2. the amount of any other actual direct damages, up to 125 percent of the charges (if recurring, the 12 months' charges apply) for the Machine that is the subject of the claim or which otherwise gives rise to the claim.

*Applicability of suppliers and resellers (unchanged).*

*The following paragraph is added at the end of this Section:*

IBM's entire liability and your sole remedy, whether in contract or in tort, in respect of any default shall be limited to damages.

## ITALY

**Limitation of Liability:** *The following replaces the second sentence in the first paragraph:*

In each such instance unless otherwise provided by mandatory law, IBM is liable for no more than:

1. *(unchanged)*
2. as to any other actual damage arising in all situations involving nonperformance by IBM pursuant to, or in any way related to the subject matter of this Statement of Warranty, IBM's liability, will be limited to the total amount you paid for the Machine that is the subject of the claim.

*Applicability of suppliers and resellers (unchanged).*

*The following replaces the third paragraph of this Section:*

Unless otherwise provided by mandatory law, IBM and your reseller are not liable for any of the following: (items 1 and 2 unchanged) 3) indirect damages, even if IBM or your reseller is informed of their possibility.

## **SOUTH AFRICA, NAMIBIA, BOTSWANA, LESOTHO AND SWAZILAND**

**Limitation of Liability:** *The following is added to this Section:*

IBM's entire liability to you for actual damages arising in all situations involving nonperformance by IBM in respect of the subject matter of this Statement of Warranty will be limited to the charge paid by you for the individual Machine that is the subject of your claim from IBM.

## **UNITED KINGDOM**

**Limitation of Liability:** *The following replaces items 1 and 2 of the first paragraph of this Section:*

1. death or personal injury or physical damage to your real property solely caused by IBM's negligence;
2. the amount of any other actual direct damages or loss, up to 125 percent of the charges (if recurring, the 12 months' charges apply) for the Machine that is the subject of the claim or which otherwise gives rise to the claim;

*The following item is added to this paragraph:*

3. breach of IBM's obligations implied by Section 12 of the Sale of Goods Act 1979 or Section 2 of the Supply of Goods and Services Act 1982.

*Applicability of suppliers and resellers (unchanged).*

*The following is added to the end of this Section:*

IBM's entire liability and your sole remedy, whether in contract or in tort, in respect of any default shall be limited to damages.



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## 附錄 B. Notices

This publication was developed for products and services offered in the U.S.A.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

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*IBM Corporation*

*North Castle Drive*

*Armonk, NY 10504-1785*

*U.S.A.*

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Any performance data contained herein was determined in a controlled environment. Therefore, the result obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore,

some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

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## Trademarks

The following terms are trademarks of International Business Machines Corporation in the United States, other countries, or both:

IBM

Lotus, Freelance, and Word Pro are trademarks of Lotus Development Corporation and/or IBM Corporation in the United States, other countries, or both.

C-bus is a trademark of Corollary, Inc. in the United States, other countries, or both.

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

Microsoft, Windows, and Windows NT are trademarks of Microsoft Corporation in the United States, other countries, or both.

PC Direct is a trademark of Ziff Communications Company in the United States, other countries, or both and is used by IBM Corporation under license.

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UNIX is a registered trademark of The Open Group in the United States and other countries.

Other company, product, or service names may be trademarks or service marks of others.

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## 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 IBM 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 IBM authorized dealers. IBM is not 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, NY 10504  
Telephone: 1-919-543-2193



Tested To Comply  
With FCC Standards

FOR HOME OR OFFICE USE

#### **Industry Canada Class B emission compliance statement**

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

#### **Avis de conformite a la reglementation d'Industrie Canada**

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

#### **Deutsche EMV-Direktive (electromagnetische Verträglichkeit)**

Zulassungsbesccheinigung laut dem Deutschen Gesetz über die elektromagnetische Verträglichkeit von Geräten (EMVG) vom 30. August 1995 (bzw. der EMC EG Richtlinie 89/336):

Dieses Gerät ist berechtigt in Übereinstimmung mit dem Deutschen EMVG das EG-Konformitätszeichen - CE - zu führen. Verantwortlich für die Konformitätserklärung nach Paragraph 5 des EMVG ist die:

IBM Deutschland Informationssysteme GmbH, 70548 Stuttgart.

Informationen in Hinsicht EMVG Paragraph 3 Abs. (2) 2:

Das Gerät erfüllt die Schutzanforderungen nach EN 50082-1 und EN 55022 Klasse B.
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EN 50082-1 Hinweis:

『Wird dieses Gerät in einer industriellen Umgebung betrieben (wie in EN 50082-2 festgelegt), dann kann es dabei eventuell gestört werden. In solch einem FA11 ist der Abstand bzw. die Abschirmung zu der industriellen Störquelle zu vergrößern.』

Anmerkung:

Um die Einhaltung des EMVG sicherzustellen sind die Geräte, wie in den IBM Handbüchern angegeben, zu installieren und zu betreiben.

### **European Union - emission directive**

This product is in conformity with the protection requirements of EU Council Directive 89/336/ECC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

IBM can not accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the fitting of non-IBM option cards.

This product has been tested and found to comply with the limits for Class B Information Technology Equipment according to 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.

### **Union Européenne - Directive Conformité électromagnétique**

Ce produit est conforme aux exigences de protection de la Directive 89/336/EEC du Conseil de l'UE sur le rapprochement des lois des États membres en matière de compatibilité électromagnétique.

IBM ne peut accepter aucune responsabilité pour le manquement aux exigences de protection résultant d'une modification non recommandée du produit, y compris l'installation de cartes autres que les cartes IBM.

Ce produit a été testé et il satisfait les conditions de l'équipement informatique de Classe B en vertu de Standard européen EN 55022. Les conditions pour l'équipement de Classe B ont été définies en fonction d'un contexte résidentiel ordinaire afin de fournir une protection raisonnable contre l'interférence d'appareils de communication autorisés.

### **Unione Europea - Directiva EMC (Conformidad electromagnética)**

Este producto satisface los requisitos de protección del Consejo de la UE, Directiva 89/336/CEE en lo que a la legislación de los Estados Miembros sobre compatibilidad electromagnética se refiere.

IBM no puede aceptar responsabilidad alguna si este producto deja de satisfacer dichos requisitos de protección como resultado de una modificación no recomendada del producto, incluyendo el ajuste de tarjetas de opción que no sean IBM.

Este producto ha sido probado y satisface los límites para Equipos Informáticos Clase B de conformidad con el Estándar Europeo EN 55022. Los límites para los equipos de Clase B se han establecido para entornos residenciales típicos a fin de proporcionar una protección razonable contra las interferencias con dispositivos de comunicación licenciados.

### **Union Europea - Normativa EMC**



Questo prodotto è conforme alle normative di protezione ai sensi della Direttiva del Consiglio dell'Unione Europea 89/336/CEE sull'armonizzazione legislativa degli stati membri in materia di compatibilità elettromagnetica.

IBM non accetta responsabilità alcuna per la mancata conformità alle normative di protezione dovuta a modifiche non consigliate al prodotto, compresa l'installazione di schede e componenti di marca diversa da IBM.

Le prove effettuate sul presente prodotto hanno accertato che esso rientra nei limiti stabiliti per le apparecchiature di informatica Classe B ai sensi della Norma Europea EN 55022. I limiti delle apparecchiature della Classe B sono stati stabiliti al fine di fornire ragionevole protezione da interferenze mediante dispositivi di comunicazione in concessione in ambienti residenziali tipici.

Korean B급 규격 증명서

이 장치는 옥내용으로 보증되었으며 모든 환경에서 사용할 수 있습니다.

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**Japanese statement of compliance for products less than or equal to 20 A per phase**

**高調波ガイドライン適合品**







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