



IBM High Rate Wireless LAN (PCI) Card

使用手冊

OPTIONS
by IBM

註: 在使用本資訊formation and the 及其支援的產品之前，請先閱讀 第B-1頁的『附錄B. Notices』 中的資訊。

安全資訊：請先閱讀

在安裝本產品之前，請先閱讀「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 přečtete příručku bezpečnostních instrukcí.
Læs sikkerhedsforskrifterne, før du installerer dette produkt.

Ennen kuin asennat tämän tuotteen, lue turvaohjeet kohdasta Safety Information.

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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前言

關於本書

本手冊包含了安裝和使用 IBM High Rate Wireless LAN (PCI) Card 的說明並提供下列語言的版本：

- 英文
- 德文
- 法文
- 西班牙文
- 義大利文
- 巴西葡萄牙文
- 繁體中文
- 日文

註冊您的選用設備

感謝您購買 OPTIONS by IBM。請用一點時間為產品註冊，並提供一些相關資訊，這將幫助 IBM 在未來提供您更好的服務。您的意見對我們的產品開發和服務十分寶貴，也促進您和我們更良好的溝通。您可以在下列 IBM 網站註冊您的選用設備：

<http://www.ibm.com/pc/register>

除非您在網站上的問卷指出，您不想收到進一步的資訊，否則 IBM 會提供您所註冊的產品的資訊及更新。

快速安裝手冊

本節包含了產品和軟體說明，以及安裝和使用指南。

產品說明

IBM High Rate Wireless LAN (PCI) Card 是可以用於任何標準 PCI 插槽的標準 PCI 卡。卡上有一個發光二極體 (LED) 指示燈以及外部天線。此 PCI 卡是用來建立符合 IEEE 802.11b LAN 標準的無線網路。它可以支援最高至 11 Mbps 的資料轉送速率。此 PCI 卡可與任何以「直接序列展頻 (DSSS)」電波技術為基礎，而符合 IEEE 802.11b 無線 LAN 標準的無線 LAN 系統完全相容。本卡可支援以下的無線 LAN 功能：

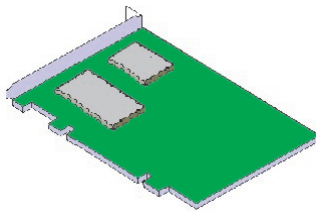
- 自動選取高、中、低速的傳輸速率選取機制
- 頻率通道選取 (2.4 GHz)
- 多重通道漫游
- 介面卡電源管理
- Wired Equivalent Privacy (WEP) 資料加密；使用 IEEE 802.11 無線 LAN 標準中所定義的 64 位元和 128 位元 WEP 加密演算法

除了本手冊以外，套件中還包含了以下項目：

- IBM High Rate Wireless LAN (PCI) Card
- *IBM 驅動程式和公用程式 CD*
- *IBM High Rate Wireless LAN (PCI) Card 安裝手冊*

如果任何項目遺失或損壞，請聯絡轉銷商。

本 PCI 卡是標準的 PCI 匯流排介面卡，而可以讓您將 IBM High Rate Wireless LAN (PCI) 安裝在電腦中。



安裝裝置驅動程式和軟體

您的電腦必須符合以下的需求才能使用 IBM High Rate Wireless LAN (PCI) Card：

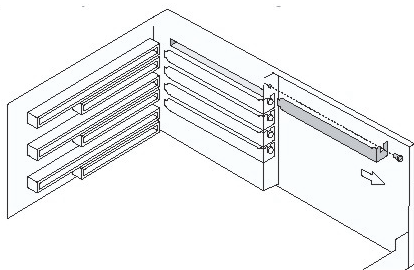
- 與 PCI 規格相容的 PCI 插槽

- Microsoft® Windows® 95、Windows 98、Microsoft Windows 2000 Professional、Windows Millennium Edition (Me) 或 Windows NT 作業系統 (Service Pack 6 或以上)
- 最少要有 5 MB 的可用磁碟空間以便安裝驅動程式和公用程式

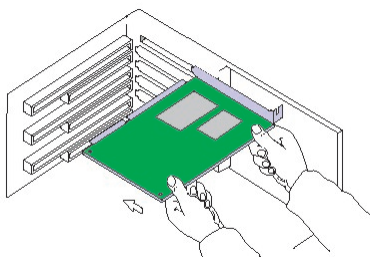
安裝 IBM High Rate Wireless LAN (PCI) Card

若要將 PCI 卡安裝至電腦，請小心地遵循以下步驟：

1. 關閉電腦。
2. 取下電腦的電源線和切斷所有外接式裝置與電腦間的連接。
3. 根據電腦隨附的使用者手冊說明，移除電腦的頂部或側面的外殼。
4. 選取可安裝介面卡的 PCI 插槽，然後移除金屬擋片。保留螺絲以便安裝介面卡。



5. 請務必移除了介面卡上的天線，然後將 PCI 介面卡的接頭輕輕地插入插槽中。

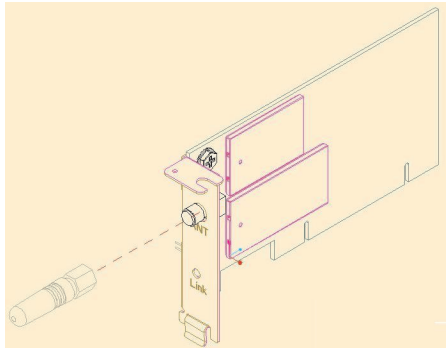


6. 使用您在步驟 4 中移除的螺絲來將介面卡固定在定位。
7. 請參閱『安裝和移除天線』以便取得安裝天線的相關資訊。
8. 根據電腦隨附的使用者手冊說明，重新裝回電腦的外殼。
9. 重新將所有的外接式裝置和電源線連接至電腦。
10. 開啓電腦以完成硬體安裝。

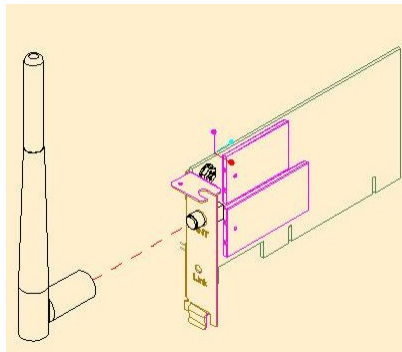
安裝和移除天線

您可以在此 Wireless LAN (PCI) Card 上使用兩種類型的天線：

- 螺旋天線：可用於 IBM NetVista™ X41 電腦



- 雙極天線：可用於其他 IBM 或非 IBM 電腦



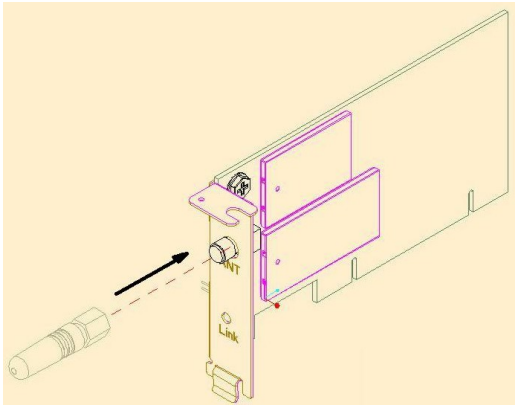
注意：

請務必先關閉電腦，再安裝或移除天線。如果未先關閉電腦就安裝或移除天線，就可能損傷或損壞 PCI 卡。請務必先安裝天線，再使用 High Rate Wireless LAN (PCI) Card。

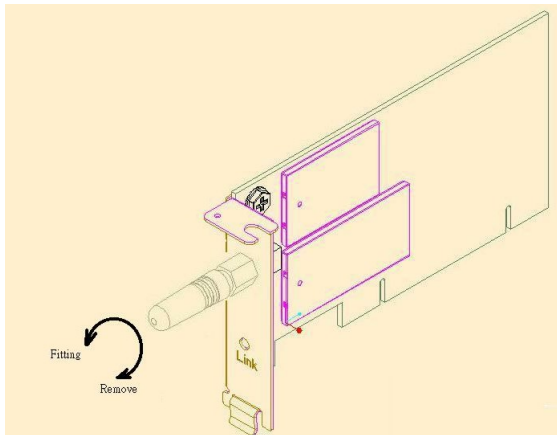
安裝和移除天線

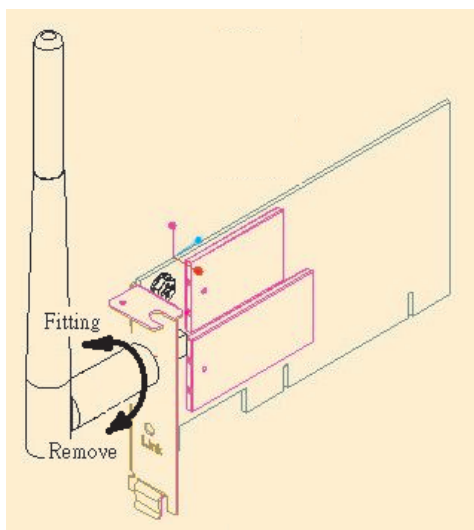
1. 請確定電腦已關閉。

2. 將天線的一端插入標示為 **ANT** 的天線接頭。



3. 安裝時請將天線以逆時鐘方向旋入到底。請不要鎖得太緊。





若要移除天線，請反向執行以上的程序。

安裝裝置驅動程式

請先完成硬體的安裝再開啓電腦，然後開始安裝裝置驅動程式和軟體。

安裝 Windows 95 和 Windows 98 的裝置驅動程式

使用此程序來安裝裝置驅動程式：

1. 在實際安裝 IBM High Rate Wireless LAN (PCI) 之後，Windows 會自動找到此卡。
2. 請將 *IBM 驅動程式和公程式 CD* 插入 CD 光碟機中。

3. 按一下 **Next**。



4. 選取「Search for the best driver for your device」。
5. 按一下 **Next**。



6. 選取 **Specify a location**。

- 輸入驅動程式的位置。位置是以“\Driver”的目錄路徑插入光碟的磁碟機。請參閱下圖中的範例。

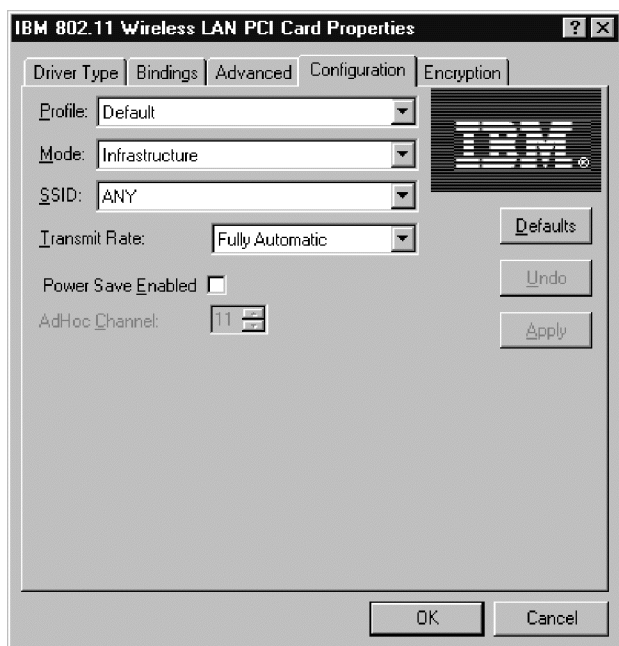


- Windows 會尋找以下的檔案用於裝置驅動程式安裝。
- 按一下 **Next**。



- 在公用程式頁中輸入任何特定的網路資訊，以安裝您的無線卡。
- 完成時，按一下 **OK**。

註：可以在稍後變更這些設定值，如 1-31 頁到 1-35 頁所述。



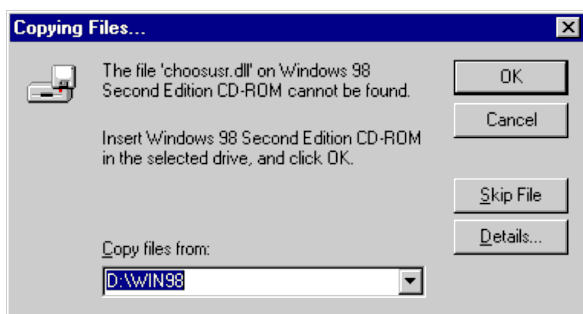
- Windows 將需要原始 Windows CD-ROM 來完成驅動程式安裝。請移除 *IBM* 驅動程式和公用程式光碟並且插入 Windows 光碟以完成安裝。



註：

Windows 可能無法找到適當的檔案，如果是這樣，請確定至 CD-ROM 光碟機的路徑是正確的，視作業系統而定，具有 \WIN98 或 \WIN95 的路徑。按一下

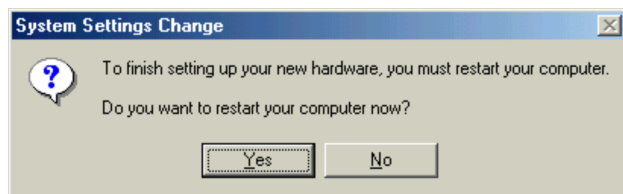
OK。



13. 按一下 **Finish**，完成安裝程序。



14. 選取 **Yes**，重新啓動電腦。



安裝 Windows Me 裝置驅動程式

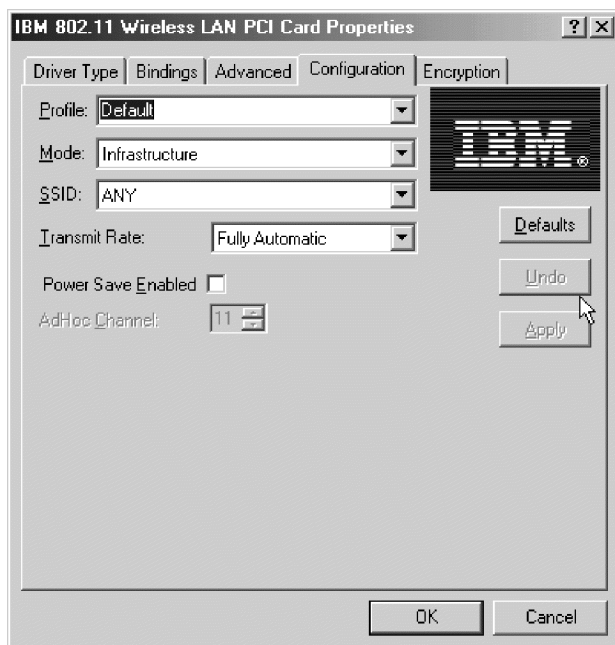
若要安裝 Microsoft Windows Millennium Edition (Me) 裝置驅動程式，請執行下列步驟：

1. 在實際安裝 IBM High Rate Wireless LAN (PCI) 之後，Windows 會自動找到此卡。
2. 請將 IBM 驅動程式和公用程式 CD 插入 CD 光碟機中。
3. 選取 **Automatic search for a better driver**。
4. 按一下 **Next**。



5. 在公用程式頁中輸入任何特定的網路資訊，以安裝您的無線卡。
6. 按一下 **OK**。

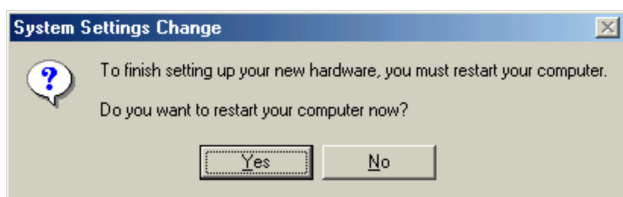
註：可以在稍後變更這些設定值，如 1-31 頁到 1-35 頁所述。



7. 按一下 **Finish**，完成安裝程序。



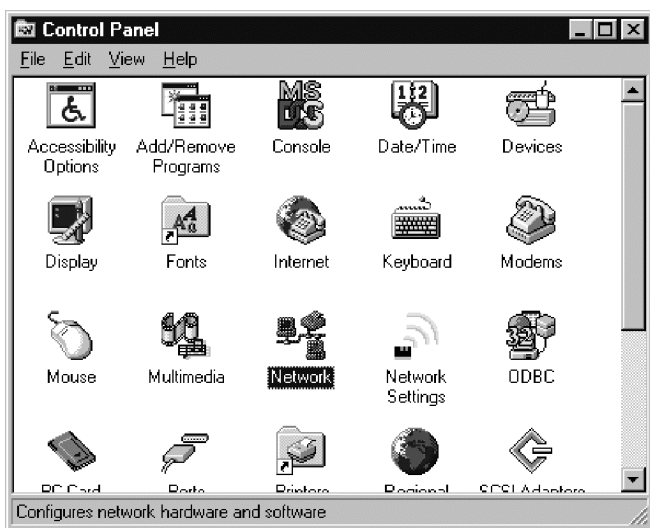
- 按一下 **Yes**，重新啟動電腦。



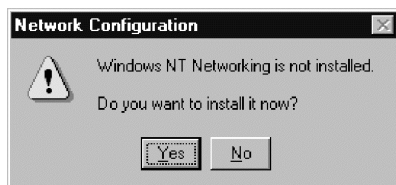
在已安裝網路的 Windows NT 中安裝裝置驅動程式

請使用此程序在執行已安裝網路的 Windows NT 4.0 的電腦中安裝裝置驅動程式：

- 按一下開始 → 設定 → 控制台。
- 按兩下 **Network** 圖示。

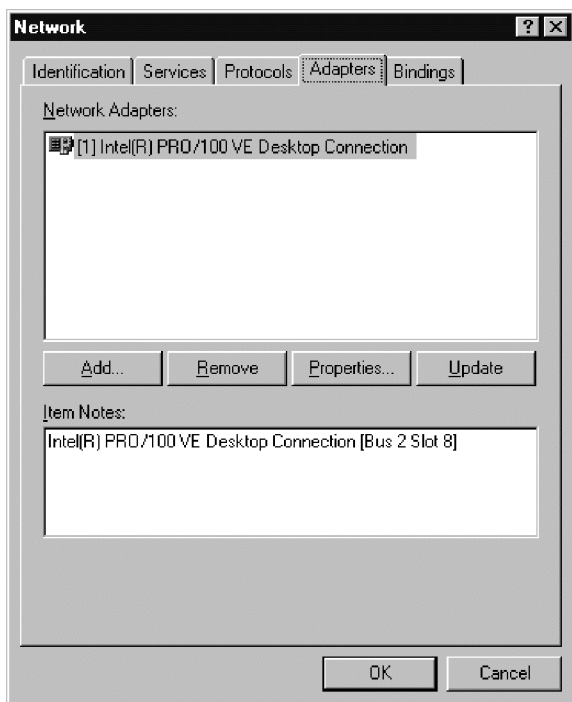


註：如果電腦中未安裝 Windows NT 網路，就會顯示以下的視窗。請諮詢網路管理者，以取得安裝 Windows NT 網路的進一步資訊。

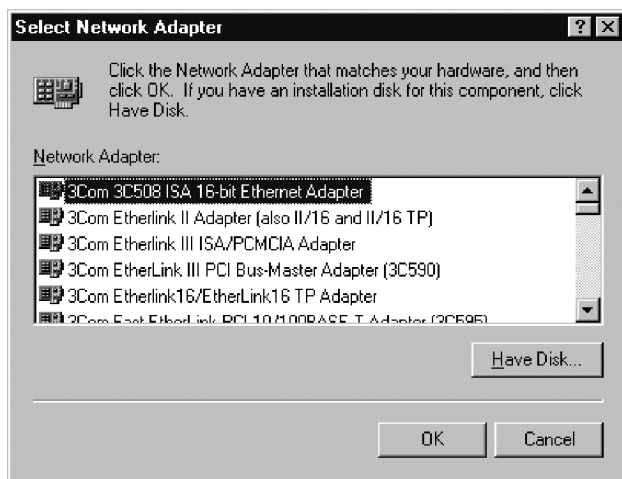


- 按一下 **Adapters** 標籤。

4. 按一下 **Add**，新增新的配接卡。

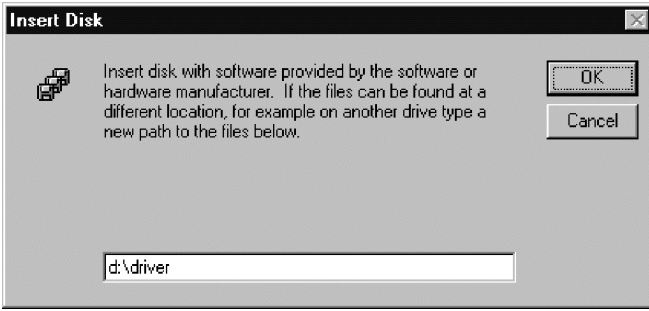


5. 按一下 **Have Disk**。



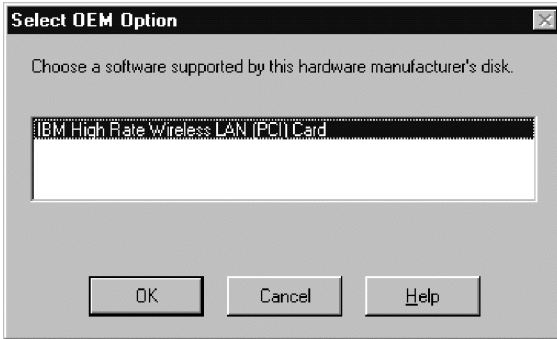
6. 輸入驅動程式的位置。位置是以 "Driver" 的目錄路徑插入光碟的磁碟機。請參閱下圖中的範例。

7. 按一下 **OK**。



8. 選取 **IBM High Rate Wireless LAN (PCI) Card**。

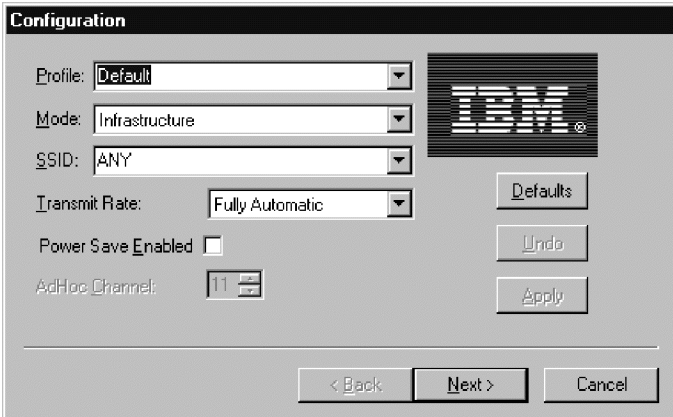
9. 按一下 **OK**。



10. 在公用程式頁中輸入任何特定的網路資訊，以安裝您的無線卡。

11. 按一下 **Next**。


註：可以在稍後變更這些設定值，如 1-31 頁到 1-35 頁所述。



The Configuration dialog box contains the following fields and controls:

- Profile: Default (dropdown)
- Mode: Infrastructure (dropdown)
- SSID: ANY (dropdown)
- Transmit Rate: Fully Automatic (dropdown)
- Power Save Enabled:
- AdHoc Channel: 11 (dropdown)
- Buttons: Defaults, Undo, Apply, < Back, Next >, Cancel

12. 如果您的無線網路需要加密 (WEP)，請依照 1-35 至 1-38 頁所述，修改設定值以符合網路需求。
13. 按一下 **Finish**。
如需其它資訊，請連絡您的網路管理者。

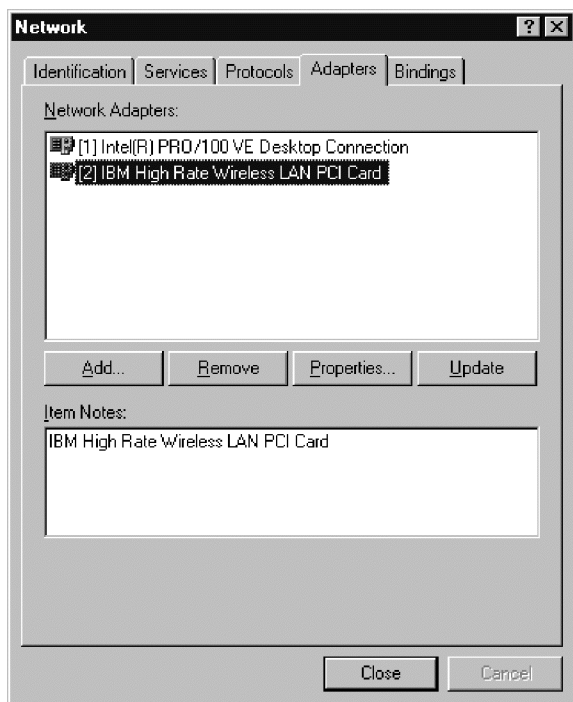


The Encryption dialog box contains the following fields and controls:

- Encryption (WEP): Disabled (dropdown)
- Radio buttons: Create Keys with Passphrase, Create Keys Manually
- Passphrase: [text field]
- Key 1: [text field]
- Key 2: [text field]
- Key 3: [text field]
- Key 4: [text field]
- Buttons: Undo, Apply, < Back, Finish, Cancel

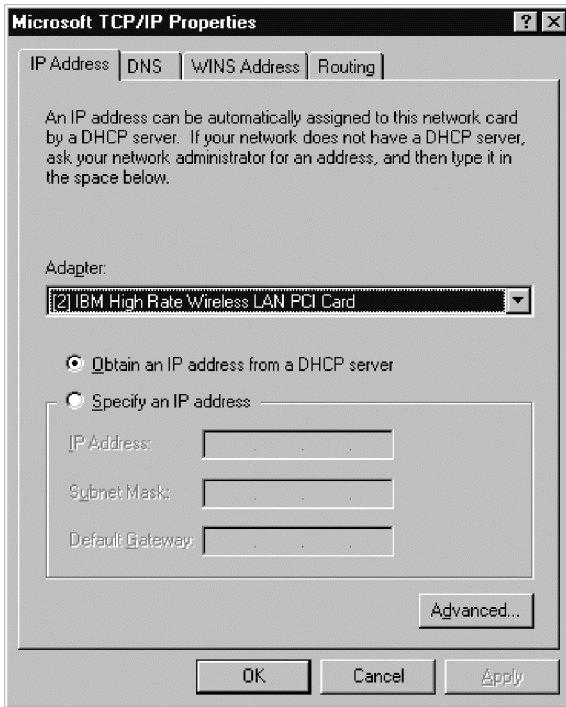
14. 在配接卡清單中，會顯示 IBM High Rate Wireless LAN PCI Card。

15. 按一下 **Close**，完成安裝程序。

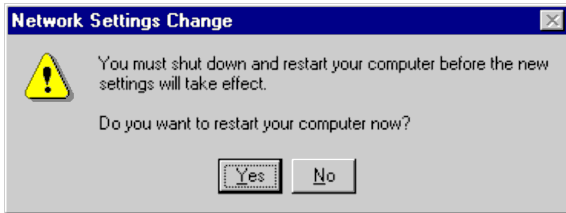


16. 如果您的網路上有 DHCP 伺服器，請選取「Obtain an IP address from a DHCP server」，否則，您可能要手動輸入 IP 資訊。如需進一步的資訊，請連絡您的網路管理者或網際網路服務提供廠商 (ISP)。

17. 按一下 **OK**。



18. 按一下 **Yes**，重新啓動電腦來完成安裝程序。



在 Windows 2000 安裝裝置驅動程式

請使用此程序在執行 Windows 2000 的電腦中安裝裝置驅動程式：

1. 在實際安裝 IBM High Rate Wireless LAN (PCI) 之後，Windows 會自動找到此卡。
2. 請將 IBM 驅動程式和公程式 CD 插入 CD 光碟機中。

3. 按一下 **Next**。

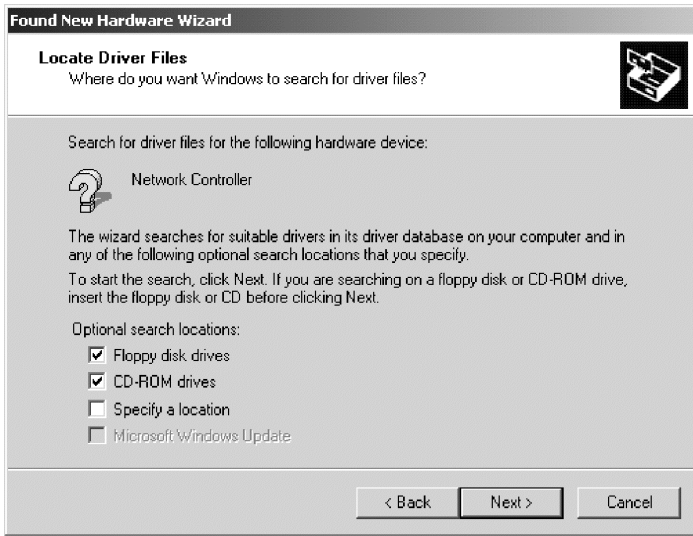


4. 選取「Search for a suitable driver for my device」。
5. 按一下下一步。

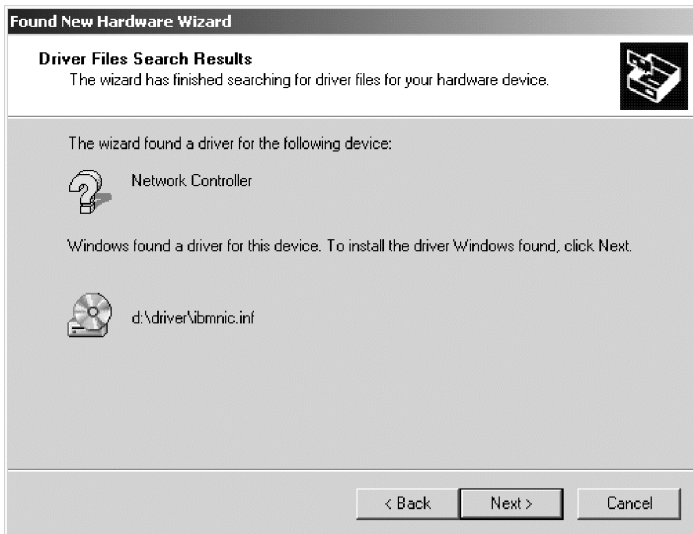


6. 驗證已選取「CD-ROM drives」勾選框。

7. 按一下 **Next**。



8. Windows 會尋找以下的檔案用於裝置驅動程式安裝。
9. 按一下 **Next**。



10. 在公用程式頁中輸入任何特定的網路資訊，以安裝您的無線卡，並且按一下 **Next**。

註：可以在稍後變更這些設定值，如 1-31 頁到 1-35 頁所述。

The screenshot shows a configuration window titled "Configuration" with the subtitle "IBM 802.11 Wireless LAN Card Settings". The window contains several settings:

- Profile: Default (dropdown menu)
- Mode: Infrastructure (dropdown menu)
- SSID: ANY (dropdown menu)
- Transmit Rate: Fully Automatic (dropdown menu)
- Power Save Enabled:
- AdHoc Channel: 11 (dropdown menu)

On the right side of the settings area, there is an IBM logo and three buttons: "Defaults", "Undo", and "Apply". At the bottom of the window, there are three buttons: "< Back", "Next >", and "Cancel".

11. 如果您的無線網路需要加密 (WEP)，請依照 1-35 至 1-38 頁所述，修改設定值以符合網路需求。
12. 按一下 **Next**。
13. 按一下 **Finish**，完成安裝程序。
如需其它資訊，請連絡您的網路管理者。

The screenshot shows an "Encryption" configuration window. It contains the following settings:

- Encryption (WEP): Disabled (dropdown menu)
- Create Keys with Passphrase
Passphrase:
- Create Keys Manually:
 - Key 1:
 - Key 2:
 - Key 3:
 - Key 4:

On the right side of the settings area, there is an IBM logo and two buttons: "Undo" and "Apply". At the bottom of the window, there are three buttons: "< Back", "Finish", and "Cancel".

安裝 TCP-IP 用於 Windows 95、Windows 98 或 Windows Me

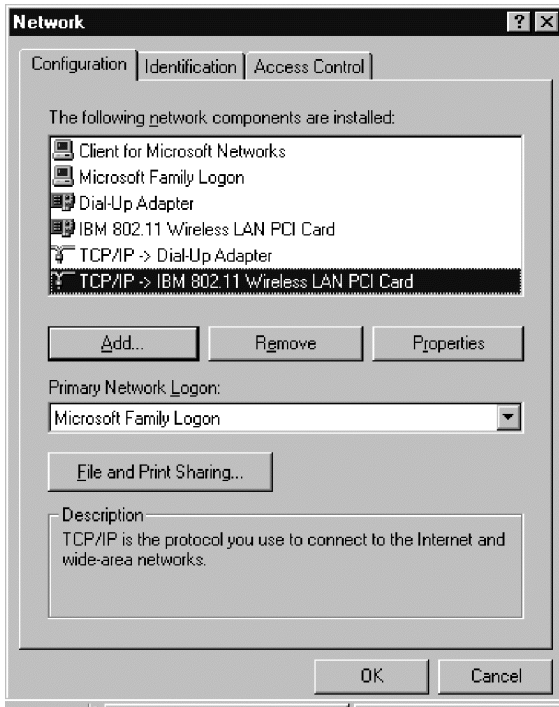
若要安裝 TCP-IP 用於 Windows 95、Windows 98 或 Windows Me，請執行下列步驟：

1. 從開始按鈕，跳至 開始->設定值->控制台。
2. 連按兩下 **Network** 圖示。



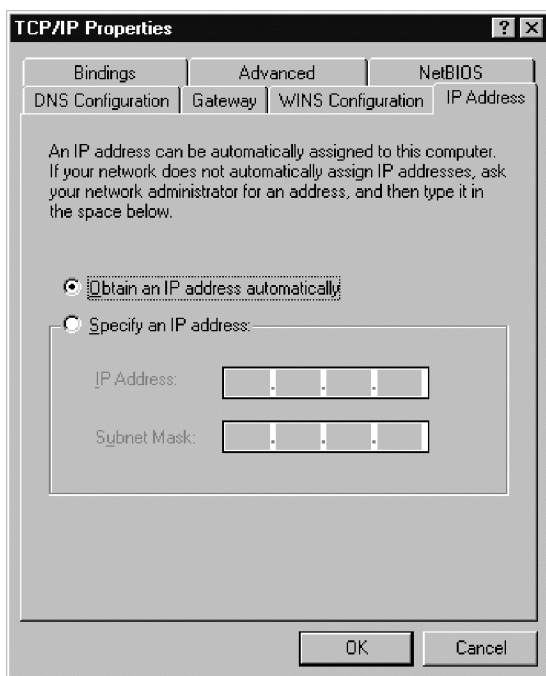
3. 選取 TCP/IP->IBM 802.11 Wireless LAN PCI Card。

4. 按一下 **Properties**。



5. 如果您的網路上有 DHCP 伺服器，請選取「Obtain an IP address automatically」，否則，您可能要手動輸入 IP 資訊。如需進一步的資訊，請連絡您的網路管理者或網際網路服務提供廠商 (ISP)。

6. 按一下 **OK** 以便完成。

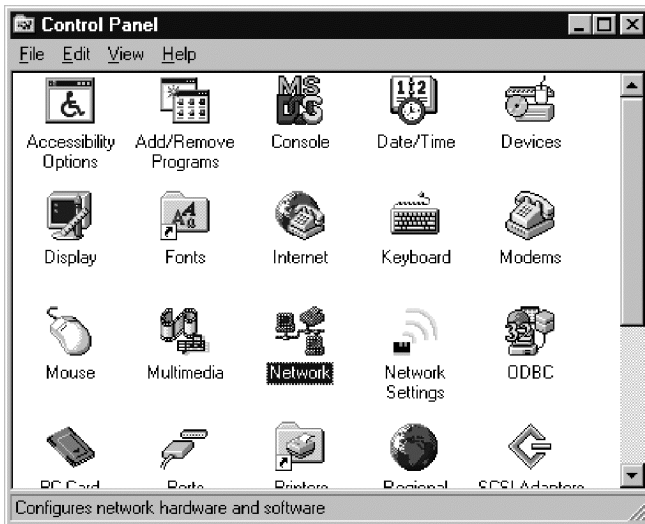


在 Windows NT 安裝 TCP-IP

若要在 Windows 中安裝 TCP-IP，請執行下列步驟：

1. 從開始按鈕，跳至開始->設定->控制台。

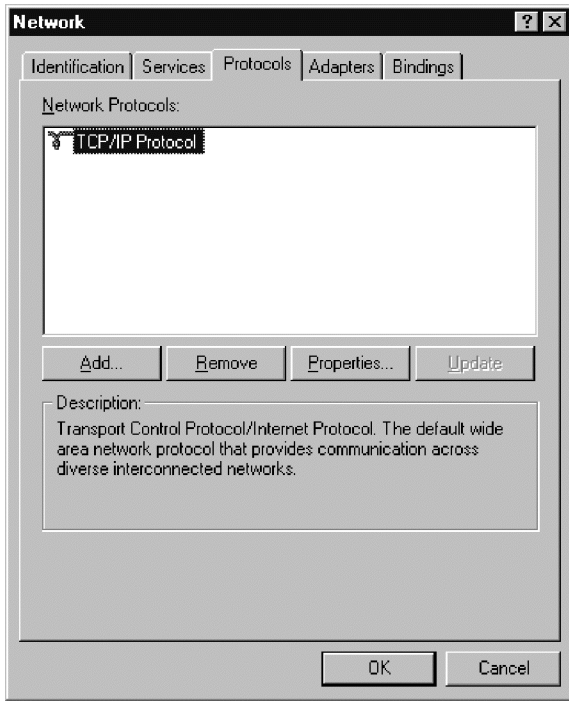
2. 連接兩下 **Network**。



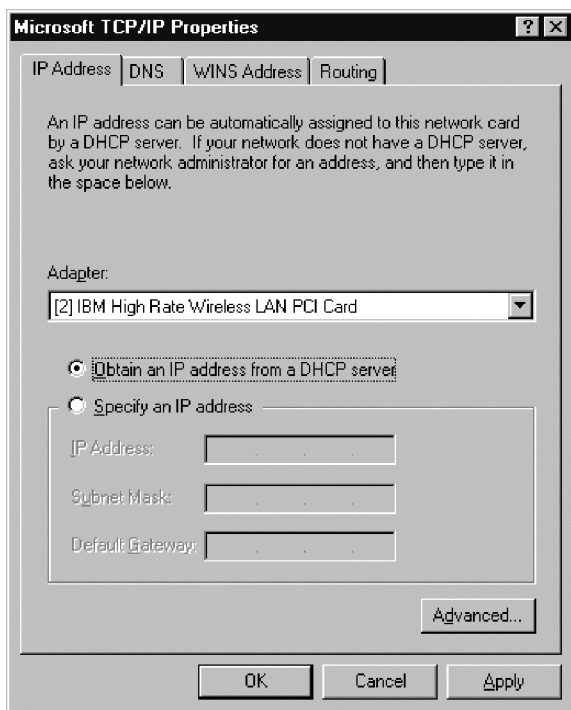
3. 選取 **Protocols**。

4. 選取 **TCP/IP Protocol**。

5. 按一下 **Properties**。



6. 在「Adapter」部分，選取 IBM High Rate Wireless LAN PCI Card。
7. 如果您的網路上有 DHCP 伺服器，請選取「Obtain an IP address from a DHCP server」，否則，您可能要手動輸入 IP 資訊。如需進一步的資訊，請連絡您的網路管理者或網際網路服務提供廠商 (ISP)。
8. 按一下 **OK** 以便完成。

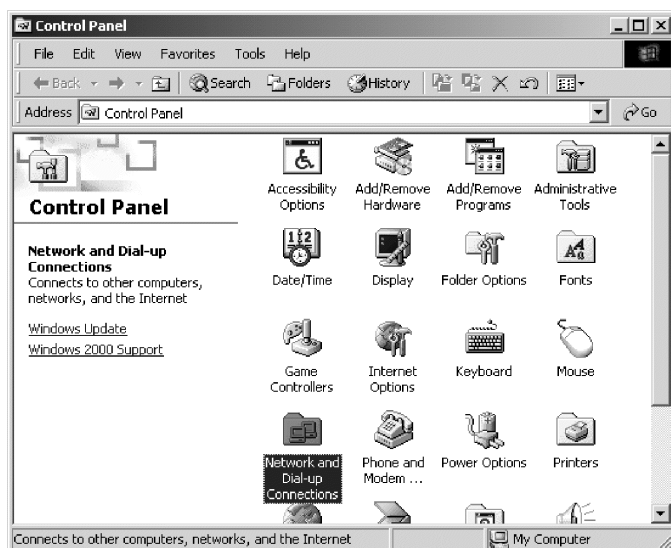


在 Windows 2000 安裝 TCP-IP

若要在 Windows 2000 中安裝 TCP-IP，請執行下列步驟：

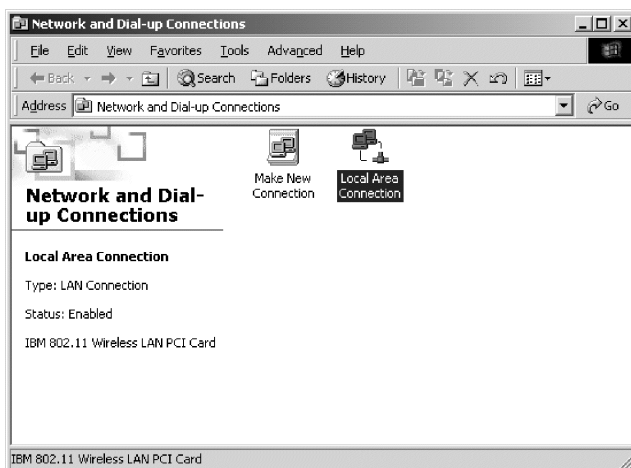
1. 跳至開始->設定->控制台。

2. 連接兩下 **Network and Dial-up Connections**。



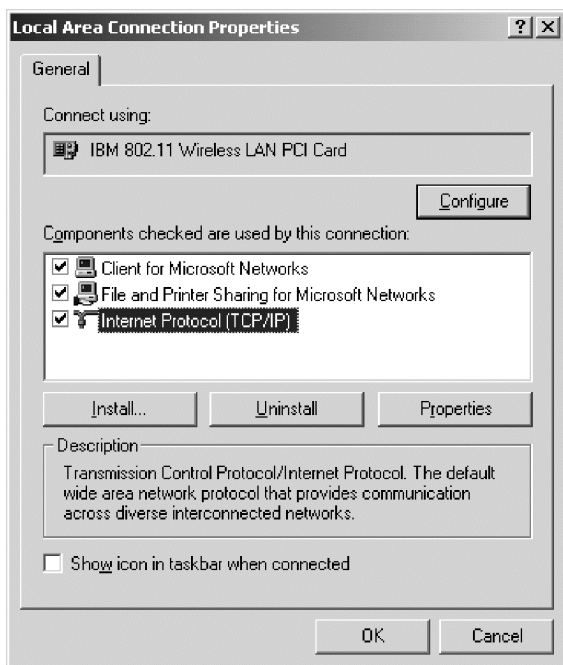
3. 使用滑鼠右鍵，按一下依據無線網路的 **Local Area Connection**。

4. 選取 **Properties**。



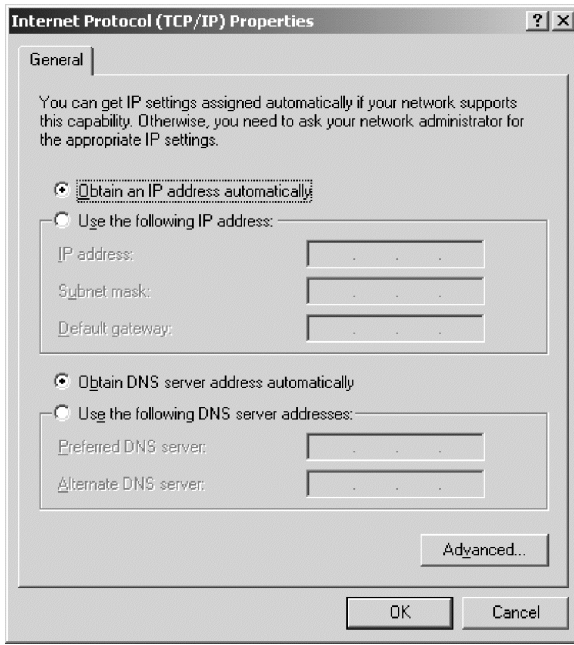
5. 選取 **Internet Protocol (TCP/IP)**。

6. 按一下 **Properties**。



7. 如果您的網路上有 DHCP 伺服器，請選取「Obtain an IP address automatically」，否則，您可能要手動輸入 IP 資訊。如需進一步的資訊，請連絡您的網路管理者或網際網路服務提供廠商 (ISP)。

8. 按一下 **OK** 以便完成。



安裝 IBM Wireless LAN Client Manager

在安裝了裝置驅動程式並且重新啓動電腦後，請使用此程序來安裝 IBM Wireless LAN Client Manager：

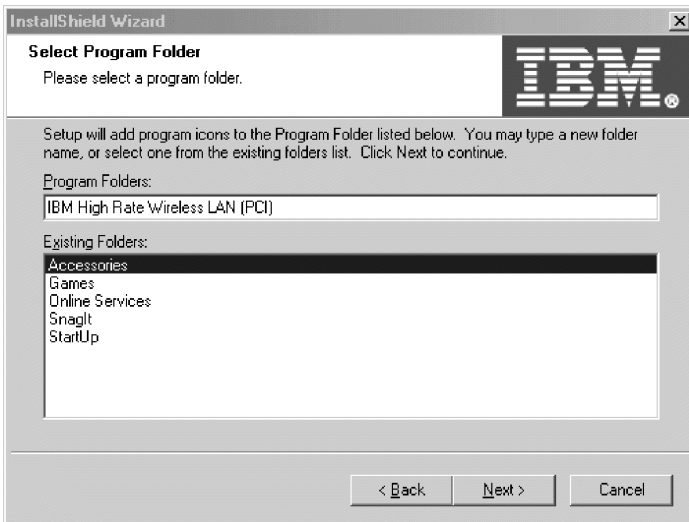
1. 請將 *IBM 驅動程式和公程式 CD* 插入 CD 光碟機。
2. 如果光碟未自動啓動，請參考光碟標籤以取得指示。
3. 選取安裝 **IBM Wireless LAN Client Manager**。

4. 按一下 **Next** 。



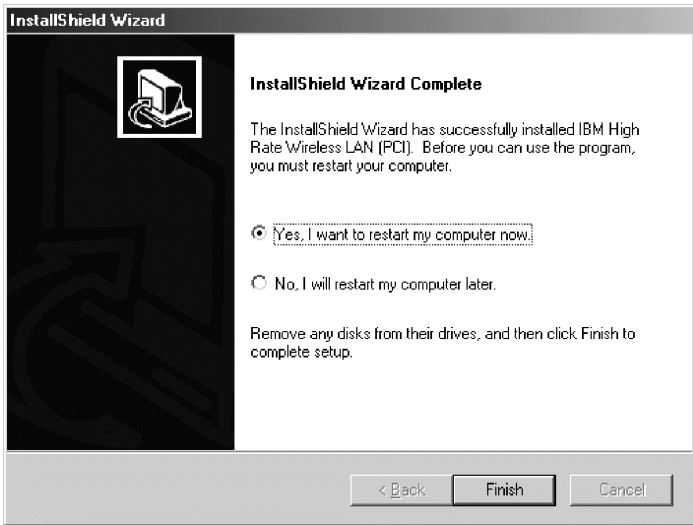
5. 選取必須安裝捷徑的「程式資料夾」。

6. 按一下 **Next** 。



7. 選取 **Yes, I want to restart my computer now** 。

8. 按一下 **Finish**，完成安裝程序。



使用 IBM Wireless LAN Client Manager

IBM Wireless LAN Client manager 的功能涵蓋了四個頁面：

1. Configuration
2. Encryption
3. Link
4. About

以下的內容會說明這些功能。

Configuration

本節說明了 Configuration 頁面中的設定。

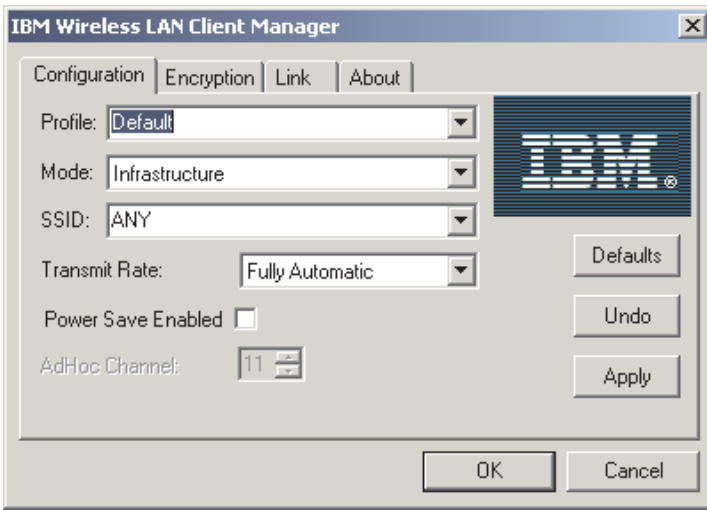
Profile

如果您要在需要不同配置設定的多重網路環境中使用 Wireless LAN (PCI) Card，您可以為每個環境定義專用的設定檔。例如，您可以為您的辦公室和住家中的工作空間各建立一個設定檔。

每個設定檔都有設定檔的名稱，並且包含了該環境中的網路名稱、網路類型、通訊通道、通訊資料傳輸速率、電源管理設定，以及任何加密鍵。起始配置會儲存在預設的設定檔中。

當您將電腦移動至另一個環境時，您可以選取適用於新環境的設定檔，以便快速地變更 Wireless LAN (PCI) Card 設定。

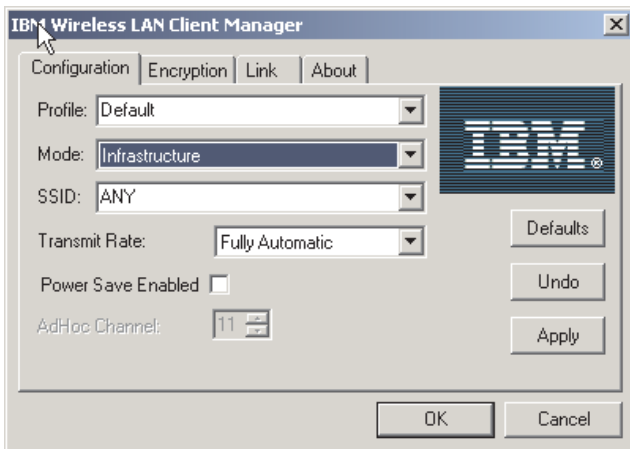
若要建立新設定檔，您只需要在 IBM Wireless LAN Client Manager 的視窗中鍵入設定檔名稱，並且選取適當的選項。



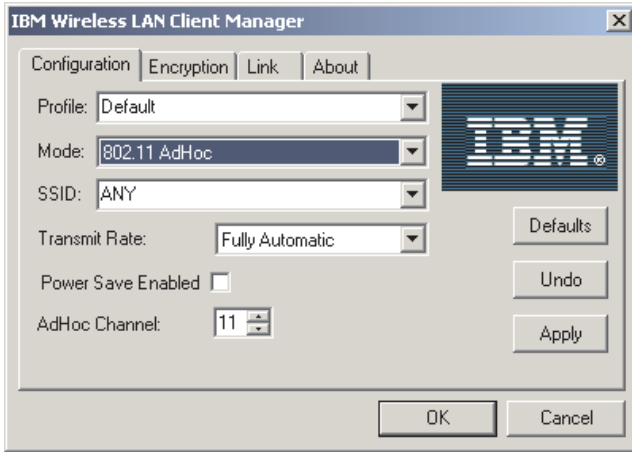
Mode

您可以選取兩種模式：

- **Infrastructure** - Infrastructure 網路包含了許多無線工作站，並且透過單一存取點或多個存取點以及無線主幹來進行交互連接。

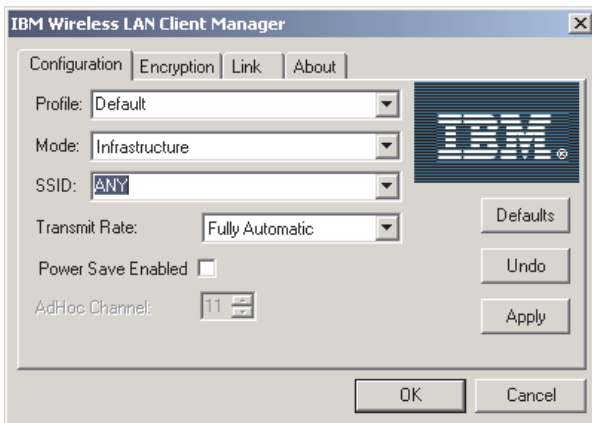


- **802.11 AdHoc** - AdHoc 網路中的工作站會透過無線媒介，在有效範圍中進行雙向的通訊。



SSID

若要讓電腦加入具有存取點的現有網路或建置 AdHoc 網路，請在 SSID 欄位中選取或鍵入網路名稱。如果 Wireless LAN (PCI) Card 是以 Infrastructure 模式運作，請使用 Infrastructure 網路名稱；如果您要讓 Wireless LAN (PCI) Card 連接至任何能找到的 IEEE 802.11 Infrastructure 網路，請使用 ANY 作為名稱（字母均為大寫）。



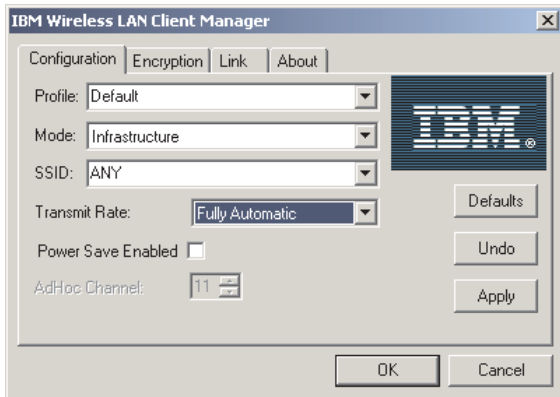
Transmit Rate

選取傳輸速率：

- Auto 1 or 2 Mb
- 5.5 Mb
- 11 Mb

- Fully Automatic

註：根據網路環境自動選取最佳化的傳輸速率。



Power Save Enabled

若要啓用電源管理，請選取 **Power Save Enabled** 核取方塊。



AdHoc Channel

只有當您在 Mode 欄位中選取 802.11 AdHoc 時，才能使用 **AdHoc Channel** 欄位。選取 1 至 14 之間的通道號碼。在部份國家中，您只能選取 11 個通道。



Encryption

本節說明了 Encryption 頁面中的設定。

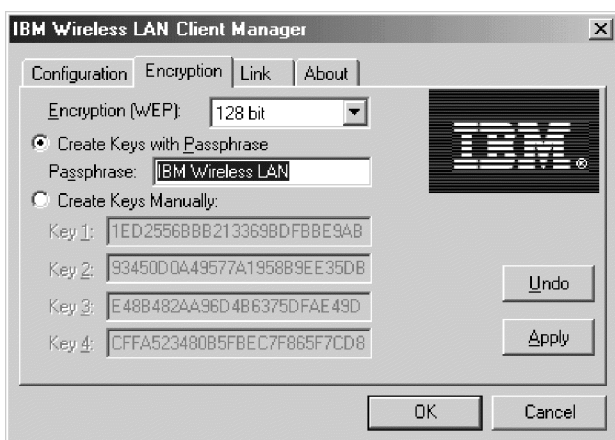


Encryption (WEP)

選取 **Disabled** 以便停用加密。選取 **64 bit** 或 **128 bit** 以便啓用加密。

Create Key with Passphrase

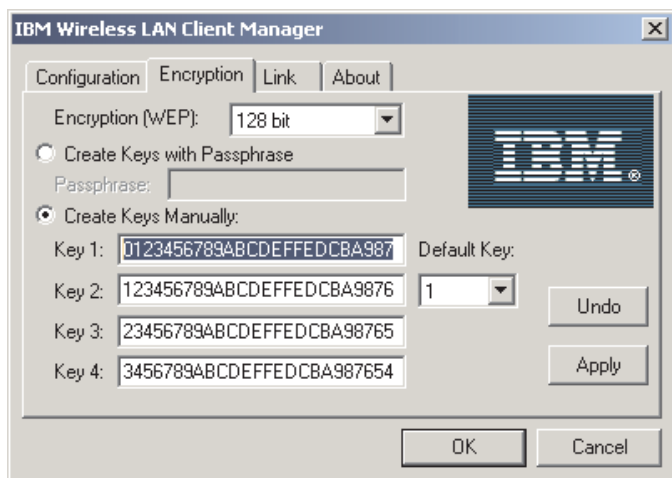
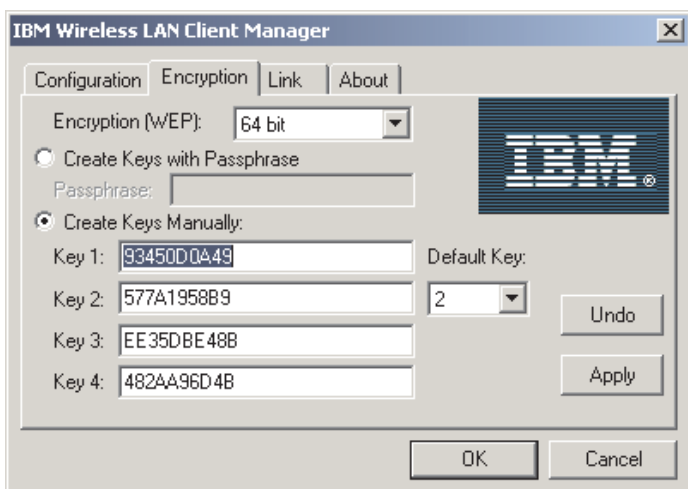
此視窗可讓您輸入包含任何字元的通用短語，並且自動為您產生隨機密鑰。



Create Key Manually

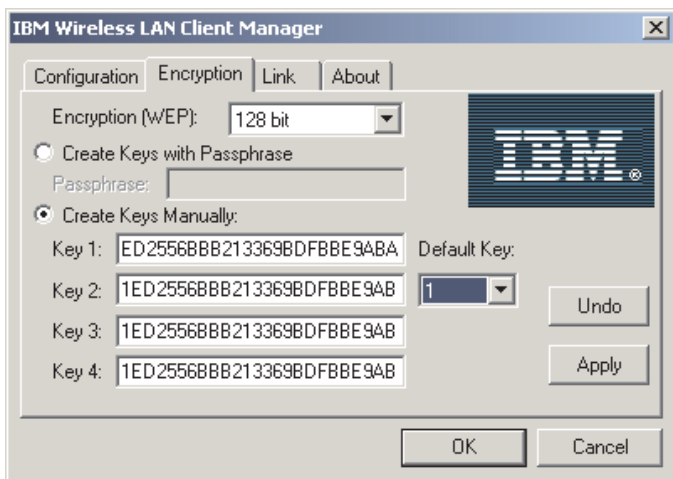
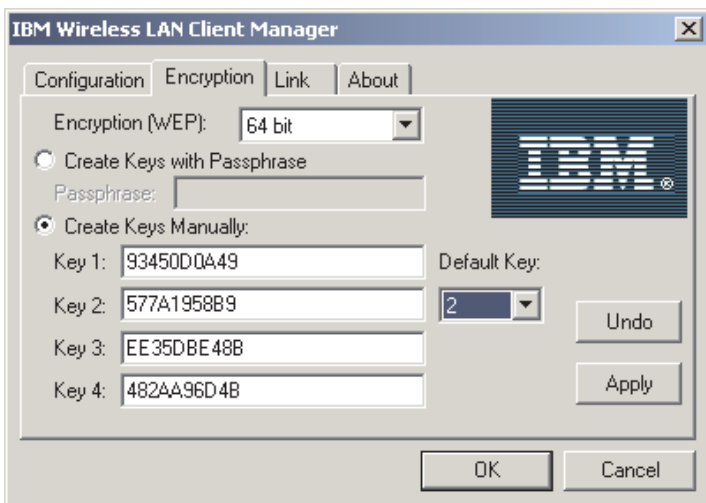
如果您啓用了加密並且選取了此選項，您最多可以指定四個密鑰，用來對透過無線網路所接收到的資料進行解密。密鑰必須為十六進位值。如果您選取了 64 位元加密，請指定 10 個數字的 16 進位值（例如 ABCD123456）。如果您選取了 128 位元的加密，請指定 24 個數字的 16 進位值（例如

ABCD123456ABCD123456987654) 。可輸入的有效字元只有 0-9 和 A-F。



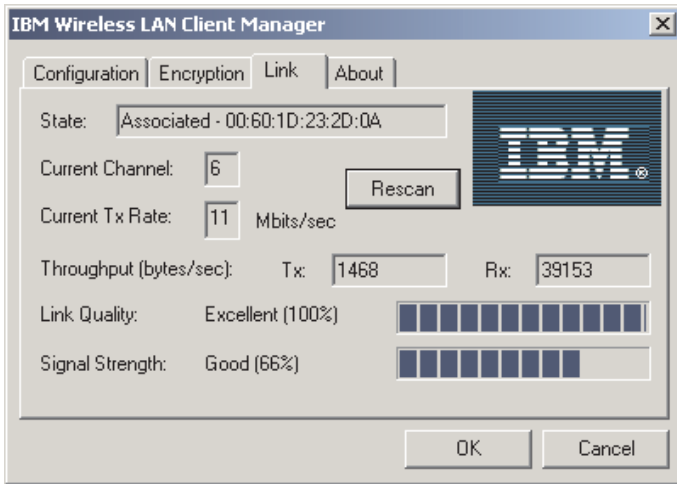
Default Key

選取要用來對電腦外送封包加密的金鑰。



Link Status

本節說明了 Link 頁面的設定。



State

本欄位會顯示電腦的現行連接狀態。以下均為可能的狀態：

- The current station is disabled
- Searching for initial connection
- Associated (連接至網路)
- Reassociation (現行的連接已轉送至另一個存取點)

Current channel

此欄位會顯示電腦所連接的網路通訊通道號碼。

Current Tx Rate

此欄位會顯示資料傳輸的速率 (Mbits/秒)。如果 Wireless LAN (PCI) Card 是以 AdHoc 模式運作，此欄位會因為只顯示了第一個訊框的傳輸速率而為不正確的值。

Throughput

此欄位會顯示傳送 (Tx) 和接收 (Rx) 資料的流量速率 (每秒的位元組數)。

Link Quality

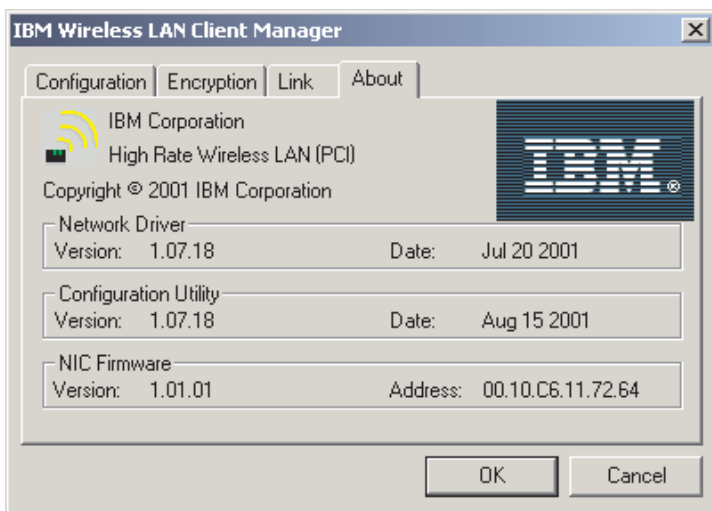
此欄位會顯示所連接網路的通訊品質。

Signal strength

此欄位會顯示所連接網路的訊號強度。

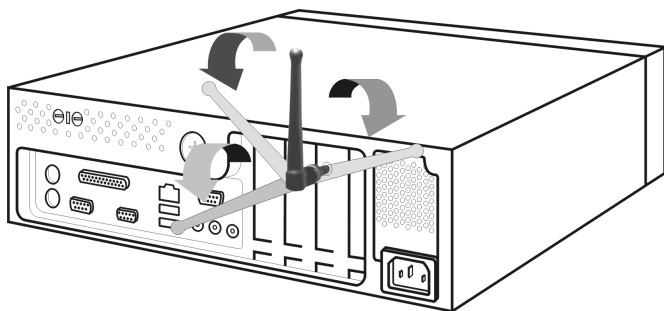
About

本頁會顯示 IBM Wireless LAN Client Manager 所有元件的版本和建置日期。



調整天線的方向以便獲得較佳的效能

預設的天線方向會指向正上方，而通常能提供最佳的訊號強度和品質。請查看圖示列並且調整天線的方向，以便獲得第1-41頁的『了解 IBM Wireless LAN Client Manager 系統列圖示』中所說明的最佳化連接。



了解 IBM Wireless LAN Client Manager 系統列圖示

下表說明了 IBM Wireless LAN Client Manager 系統列圖示。

圖示	說明
	無線連接良好
	無線連接尚可
	無線連接不良
	未建立無線連接

註：若要啓動 Client Manager，請按兩下圖示。

附錄A. Product warranty and support information

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.

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.

Machine - IBM High Rate Wireless LAN (PCI) User's Guide
--

Warranty period - One year

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/ 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. Online assistance can be obtained through the Personal Computing Support Web site and the IBM Automated Fax System.

Online technical support	
IBM Personal Computing Support Web site	http://www.ibm.com/pc/support/
IBM Automated Fax System	1-800-426-3395 (U.S. and Canada)

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® 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.

Support 24 hours a day, 7 days a week	
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 http://www.ibm.com/pc/support/ , and click Support Phone List .

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

This warranty statement consists of two parts: Part 1 and Part 2. Be sure to read Part 1 and the country-unique terms in Part 2 that apply to your country or region.

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

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.

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.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

*IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.*

The following paragraph does not apply to the United Kingdom or any country where such provisions are inconsistent with local law: INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION 『AS IS』 WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

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Any references in this publication to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product, and use of those Web sites is at your own risk.

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.

Trademarks

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

IBM
HelpCenter
NetVista

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

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

Electronic emission notices

IBM High Rate Wireless LAN (PCI) Card

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.

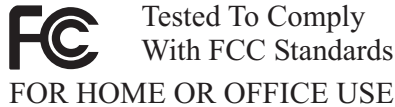
Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Proper cables and connectors are available from IBM authorized

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



Industry Canada Class B emission compliance statement

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

Avis de conformité a la réglementation d'Industrie Canada

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

Deutsche EMV-Direktive (electromagnetische Verträglichkeit)

Zulassungsbeseinigunglaut 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 Übereinstimmungmit 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.
--

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 Fall 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 - Direttiva 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.

이 기기는 가정용으로 전자파 적합등록을 기기로서

주거지역에서는 물론 모든 지역에서 사용 할 수 있습니다.

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づきクラス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。

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

附錄C. Wireless Regulatory Information

The device must be installed and used in strict accordance with the instructions as described hereafter. This product complies with the following radio frequency and safety standards:

USA - Federal Communications Commission (FCC)

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.
3. **FCC RF Radiation Exposure Statement:** This device and its antenna(s) must operate with a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users must be provided with specific operating instructions for satisfying RF exposure compliance.

Canada - Industry Canada (IC)

Low Power License-Exempt Radio communication Devices (RSS-210). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference received, including interference that may cause undesired operation of the device.

Europe - CE Declaration of Conformity

- Hereby Universal Scientific Industrial Co. Ltd. declares that the IBM High Rate Wireless LAN PCI adapter device integrated in this product is in conformity with the essential requirements and other relevant provisions of Directive 1999/5/EC. IBM cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product.
- Universal Scientific Industrial Co. Ltd. déclare par la présente que le dispositif IBM High Rate Wireless LAN PCI adapter device intégré à ce produit sont en conformité avec les principales exigences et autres dispositions appropriées de la Directive 1999/5/EC. IBM décline toute responsabilité en cas de modification non recommandée de ces produits.
- Universal Scientific Industrial Co. Ltd. erklären hiermit, dass die in diesem Produkt integrierte drahtlose IBM High Rate Wireless LAN PCI adapter device die Voraussetzungen sowie alle wichtigen Anforderungen der Richtlinie 1999/5/EC erfüllen.

IBM übernimmt keine Verantwortung für Fehler, die sich aus einer nicht empfohlenen, unsachgemäßen Modifizierung an diesem Produkt zur Erfüllung der Sicherheitsanforderungen ergeben.



USI[®] Universal Scientific Industrial Co., Ltd.

CE Declaration of Conformity

For the following equipment:
IEEE 802.11b Wireless LAN PCI Adapter

(Product Name)

PCI11200

(Model Designation)

is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to the European Council Directive 89/336/EEC, the Low Voltage Directive 73/23/EEC & The Amendment Directive 93/68/EEC, Radio & Telecommunication Terminal Equipment Directive (R&TTE) 1999/5/EC. For the evaluation regarding the Directives, the following standards were applied:

EN300 328-2 July 2000 V1.1.1

EN301 489-1 August 2000 V1.2.1

EN301 489-17 September 2000 V1.1.1

EN60950 2000

The following manufacturer is responsible for this declaration:

Universal Scientific Industrial Co., Ltd.

(COMPANY NAME)

136, Lane 351, Taiping Road, Sec.1, Tsao Tuen, Non-Tou, Taiwan

(COMPANY ADDRESS)

TEL : 886-49-2350876

FAX : 886-943226744

Fred Chen

Director

(NAME)

(TITLE)

Fred Chen
(SIGNATURE)

Oct. 3, 2001
(DATE)

CE 802.11b Frequency Restrictions

802.11b (maximum power > 10 mW and <100 mW)

Belgie B: Gebruik buiten gebouw alleen op kanalen 10 (2462 MHz) en 11 (2467 MHz). Voor privé-gebruik buiten gebouw over publieke grond over afstand kleiner dan 300m geen registratie bij BIPT/IBPT nodig; voor gebruik over afstand groter dan

300m is wel registratie bij BIPT/IBPT nodig. Voor publiek gebruik buiten gebouwen is licentie van BIPT/IBPT verplicht. Voor registratie of licentie kunt u contact opnemen met BIPT.

Belgium B: For outdoor usage only channel 10 (2462 MHz) and 11 (2467 MHz) is allowed. For private usage outside buildings across public grounds over less than 300m no special registration with IBPT/BIPT is required. Registration to IBPT/BIPT is required for private usage outside buildings across public grounds over more than 300m. An IBPT/BIPT licence is required for public usage outside building. For registration and license please contact IBPT/BIPT.

Belgique B: L'utilisation en extérieur est autorisée sur le canal 10 (2462 MHz) et 11 (2467 MHz). Dans le cas d'une utilisation privée, à l'extérieur d'un bâtiment, au-dessus d'un espace public, aucun enregistrement n'est nécessaire pour une distance de moins de 300m. Pour une distance supérieure à 300m un enregistrement auprès de l'IBPT est requise. Pour une utilisation publique à l'extérieur de bâtiments, une licence de l'IBPT est requise. Pour les enregistrements et licences, veuillez contacter l'IBPT.

France F: A l'intérieur des bâtiments, utilisation sans contrainte géographique avec puissance maximale de 100 mW dans la bande 2446,5-2483,5 MHz. A l'extérieur des bâtiments, utilisation non autorisée. Vous pouvez contacter l'Autorité de Régulation des Télécommunications (<http://www.art-telecom.fr>) pour tout autre cas particulier.

France F: Indoor, no geographical restriction with a maximum power of 100 mW within the band of 2446.5-2483.5 MHz. Outdoor, the band is not opened. Please contact ART for any other specific case.

Deutschland D: Anmeldung im Outdoor-Bereich notwendig, aber nicht genehmigungspflichtig.

Germany D: License required for outdoor installations.

Italia I: E' necessaria la concessione ministeriale anche per l'uso interno. L'uso per installazione in esterni non e' permessa.

Italy I: License required for indoor use. Use with outdoor installations not allowed.

The Netherlands: NLLicense required for outdoor installations.

Nederland: NLLicentie verplicht voor gebruik met buitenantennes.

Japan:

下記「電波干渉についての注意」は、重要な注意事項なので、このページを印刷して大切に保管してください。

電波干渉についての注意

この機器の使用周波数は2.4GHz帯です。この周波数帯ではレンジ等の産業・科学・医療用機器のほか、他の同種無線局、工場の製造ライン等で使用される免許を要する移動体識別用構内無線局、免許を要しない特定小電力無線局、アマチュア無線局等（以下「他の無線局」と略す）が運用されています。

- この機器を使用する前に、近くで「他の無線局」が運用されていないことを確認してください。
- 万一、この機器と「他の無線局」との間に電波干渉が発生した場合には、速やかにこの機器の使用チャンネルを変更するか、使用場所を変えるか、又は機器の運用を停止（電波の発射を停止）してください。
- 本製品に関してお困りの時は、次の連絡先までお問い合わせください。

連絡先：ダイヤルIBM

（最新の電話番号は、次のホームページでご確認ください。）

<http://www-6.ibm.com/jp/services/its/info/>)



この無線機器は2.4GHz帯周波数、DS-SS変調方式を採用しており、与干渉距離は40mです。



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