

User's Manual

(for ThinkPad R50 and T40 Series)

The attachment is the part of the user's manual of the specific host devices (IBM ThinkPad R50 and T40 Series) that indicates the regulatory notices concerning the FCC Part 15 and IC RSS-210/102.

The notice consists of two separate packages as follows.

PN (Part Number) 13N6186 : for ThinkPad R50 Series
13N6187 : for ThinkPad T40 Series

Only the former one is attached representatively for volume saving, but the contents of both are almost the same thanks to the same conceptual design of hardware configuration.



ThinkPad[®] R50 Series Regulatory Notice

First Edition (March 2004)

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Regulatory Notice for ThinkPad R50 Series

This notice is a supplementary document of the *ThinkPad® R50 Series Service and Troubleshooting Guide*. Please read this document before you use the ThinkPad R50 Series computer.

The ThinkPad R50 Series computer complies with the radio frequency and safety standards of any country or region in which it has been approved for wireless use. You must install and use your ThinkPad computer in strict accordance with the instructions as described hereafter.

Avis de réglementation pour les ThinkPad R50 Series

Le présent avis est un document qui vient compléter le *Guide de maintenance et d'identification des incidents* ThinkPad R50 Series. Veuillez lire ce document avant d'utiliser l'ordinateur ThinkPad R50 Series.

L'ordinateur ThinkPad R50 Series est conforme aux normes de sécurité et de radiofréquence du pays ou de la région où son utilisation sans fil est agréée. Vous devez installer et utiliser votre ordinateur ThinkPad en respectant scrupuleusement les instructions décrites ci-après.

Hinweis für ThinkPad R50 Series

Bei diesem Hinweis handelt es sich um ein ergänzendes Dokument für das Handbuch "*Service und Fehlerbehebung*" zu ThinkPad R50 Series. Lesen Sie vor dem Verwenden des ThinkPad R50 Series-Computers dieses Dokument.

Der ThinkPad R50 Series erfüllt die Funkfrequenz- und Sicherheitsstandards der Länder oder Regionen, in denen er für die Verwendung als drahtlose Einheit zugelassen ist. Der ThinkPad muss entsprechend den Installationsanweisungen und entsprechend den gültigen Richtlinien für drahtlose Einheiten installiert und verwendet werden.

Aviso de regulación para ThinkPad R50 Series

Este aviso es un documento adicional del manual *ThinkPad R50 Series Guía de servicio y de resolución de problemas*. Antes de utilizar el sistema ThinkPad R50 Series, lea este documento.

El sistema ThinkPad R50 Series satisface los estándares de seguridad y de frecuencia de radio de cualquier país o región en el que se haya aprobado su utilización para conexiones inalámbricas. El usuario debe instalar y utilizar el sistema ThinkPad siguiendo estrictamente las instrucciones que se describen a continuación.

Informazioni importanti sul ThinkPad R50 Series

Queste informazioni importanti costituiscono un documento integrativo della *Guida all'assistenza e alla risoluzione dei problemi per ThinkPad R50 Series*. Prima di utilizzare l'elaboratore ThinkPad R50 Series, leggere il presente documento.

L'elaboratore ThinkPad R50 Series è conforme agli standard di sicurezza e di frequenza radio di ciascun paese in cui è stato approvato per l'utilizzo della tecnologia senza fili. E', quindi, necessario installare ed utilizzare l'elaboratore ThinkPad in stretta osservanza alle istruzioni di seguito riportate.

ThinkPad R50 Series- tietokoneeseen liittyvistä viranomaismääräyksistä

Tämä asiakirja täydentää ThinkPad R50 Series *ThinkPad R50 Series-tietokoneen Käyttö ja vianmääritys* -julkaisun tietoja. Lue tämä asiakirjan sisältö, ennen kuin aloitat ThinkPad R50 Series -tietokoneen käytön.

ThinkPad R50 Series -tietokone on paikallisten radiotaajuus- ja turvallisuusstandardien mukainen niissä maissa ja niillä alueilla, joilla se on hyväksytty langattomaan yhteyskäyttöön. Käyttäjän on ehdottomasti noudatettava jäljempänä annettuja ohjeita ThinkPad-tietokoneen asennuksen ja käytön aikana.

Kennisgeving inzake de veiligheid van de ThinkPad R50 Series

Deze kennisgeving vormt een aanvulling op de *ThinkPad R50 Series Gids voor Service en Probleemoplossing*. Lees dit document alstublieft voordat u de ThinkPad R50 Series-computer in gebruik neemt.

De ThinkPad R50 Series-computer voldoet aan de veiligheidsnormen en de normen voor stralingsafgifte op radiofrequenties voor alle landen en regio's waarin draadloos gebruik van deze computer is toegestaan. Bij het installeren en gebruiken van de ThinkPad-computer dient u de hierna beschreven instructies stipt op te volgen.

Bemærkning vedr. ThinkPad R50 Serie-computeren

Denne bemærkning er et supplement til bogen *ThinkPad R50 Serie Guide til service og fejlfinding*. Læs dette dokument, før du bruger ThinkPad R50 Serie-computeren.

ThinkPad R50-computeren overholder radiofrekvens- og sikkerhedsstandarderne i de lande og områder, hvor den er godkendt til trådløs brug. Du skal installere og bruge ThinkPad-computeren i nøje overensstemmelse med den vejledning, der beskrives her.

Merknad om forskrifter for ThinkPad R50 Series

Denne merknaden er et tillegg til opplysningene i *ThinkPad R50 Series Håndbok for service og problemløsning*. Du må lese dette dokumentet før du bruker ThinkPad R50 Series-maskinen.

ThinkPad R50-maskinen er i overensstemmelse med standardene for radiofrekvenssignaler og sikkerhet i alle land eller regioner der den er godkjent for trådløs bruk. Du må installere og bruke ThinkPad-maskinen i henhold til instruksjonene nedenfor.

Information om radiokommunikations- och säkerhetsnormer för ThinkPad R50 Series

Det här dokumentet kompletterar informationen i handboken *ThinkPad R50 Series Service och felsökning*. Läs dokumentet innan du använder ThinkPad R50-datorn.

ThinkPad R50-datorn uppfyller radiokommunikations- och säkerhetsnormerna i de länder och regioner där datorn har blivit godkänd för trådlös användning. Du måste installera och använda ThinkPad-datorn enligt anvisningarna nedan.

Aviso Regulamentar para o ThinkPad R50 Series

Este aviso é um documento complementar do *ThinkPad R50 Series: Guia de Serviços e Resolução de Problemas*. Antes de utilizar o computador ThinkPad R50 Series, leia este documento.

O computador ThinkPad R50 Series está em conformidade com os padrões de segurança e radiofrequência de todos os países ou regiões em que foi aprovado para uso sem fio. É necessário instalar e utilizar o computador ThinkPad em conformidade total com as instruções, conforme descritas daqui em diante.

ThinkPad(R) R50 시리즈 규격에 관련된 사항

이 문서는 ThinkPad R50 시리즈 사용 설명서의 보충 설명서입니다.

ThinkPad R50 시리즈 컴퓨터를 사용하기 전에 반드시 이 문서를 읽어 보십시오.

ThinkPad R50 시리즈 컴퓨터는 무선을 사용할 수 있도록 인증된 어떠한 국가 또는 지역에서라도 사용될 수 있도록 전파 형식 등록과 안전 기준에 적합하게 만들어졌습니다. 반드시 사용 설명서에 언급된 지시 사항에 따라 ThinkPad 컴퓨터를 설치하고 사용해야 합니다.

ThinkPadR R50 系列条例声明

该声明是《ThinkPad R50 系列服务与故障检修指南》的补充文档。

在使用 ThinkPad R50 系列计算机之前请先阅读本文档。

ThinkPad R50 系列计算机符合任何批准无线使用的国家或地区的射频和安全标准。您必须严格按照以下描述的说明来安装和使用 ThinkPad 计算机。

ThinkPad R50 Series 管理的注意事項

本注意事項為「**ThinkPad R50 Series 服務與疑難排解手冊**」的補充文件。
請在使用**ThinkPad R50**系列電腦前，先閱讀此文件。

ThinkPad R50系列電腦會遵守已核准使用無線網路的國家或地區之無線頻率及安全標準。
您必須確實依照以下所說明的指示來安裝以及使用您的 ThinkPad 電腦。

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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.

Wireless modules for IBM ThinkPad R50 Series

This Regulatory Notice consists of two packages: Part Number 13N6186 (this notice) and Part Number 13N6245.

This document contains only information about model T60H786-U, (FCC ID: ANO20030500CMR, IBM 11b/g Wireless LAN Mini PCI Adapter).

For information about the following wireless adapters, see the other package, Part Number 13N6245.

FCC ID	Model Number
ANO20030400LEG	PH12127-E (IBM 11a/b/g Wireless LAN Mini PCI Adapter)
ANO20020201CLK	WM3B2100 (Intel® PRO/Wireless LAN 2100 3B Mini PCI Adapter)
ANO20040501CX2	WM3B2200BG (Intel PRO/Wireless 2200BG Mini-PCI Adapter from IBM)
ANO20020100MTN	BMDC200 (IBM Integrated <i>Bluetooth</i> III with 56K Modem)

For information concerning the wireless cards announced after the publication of this notice, visit the Web site at www.ibm.com/pc/qtechinfo/MIGR-43693.html

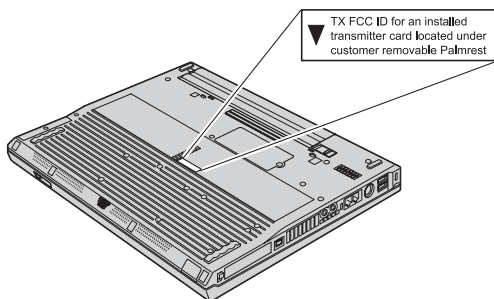
Note: IBM 11b/g Wireless LAN Mini PCI Adapter marketed in US and Canada does not support nor function in the extended channels (12ch, 13ch).

i) FCC ID of wireless modules

There is no FCC ID for Mini-PCI Cards shown on the enclosure of your ThinkPad computer. Instead you will find an indicator pointing to the location of the FCC ID on the bottom side of your ThinkPad computer as shown in the figure on the next page. The FCC IDs are affixed on each approved module installed in the Mini-PCI Card slot or the CDC slot.

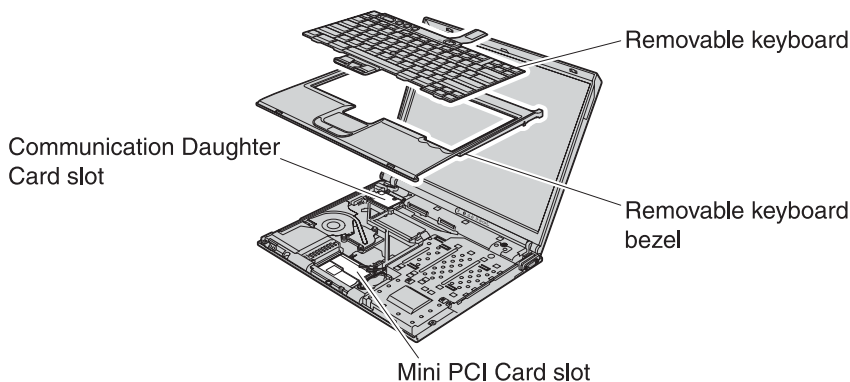
Mini-PCI Card:

FCC ID: ANO20030500CMR, Model: T60H786-U (IBM 11b/g Wireless LAN Mini PCI Adapter)



ii) Installation of approved wireless modules

If no integrated wireless LAN Mini-PCI Card or RF CDC module has been preinstalled in your ThinkPad computer, you can install one, provided by IBM as an option. Plug the wireless card option into the Mini-PCI Card slot or CDC slot located under the keyboard of your ThinkPad computer as shown below.



Attention: The ThinkPad R50 Series computer contains an authentication mechanism

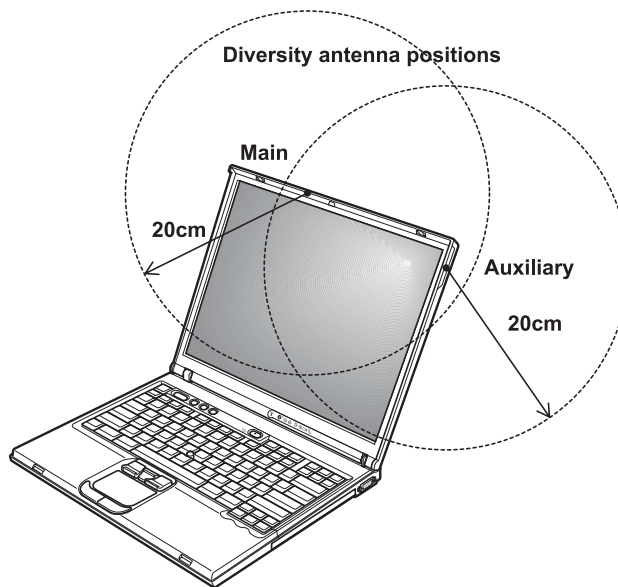
If you install an unauthorized wireless LAN Mini-PCI Card or RF CDC module that is not approved for use in the ThinkPad R50 Series computer, the computer will not start, but only displays an error message and emits beeps.

iii) The FCC RF safety requirement

The radiated output power of the Wireless LAN Mini-PCI Cards or RF CDC module authorized to use for the ThinkPad R50 Series computer is far below the FCC radio frequency exposure limits. Nevertheless, the ThinkPad R50 Series computer shall be used in such a manner that the potential for human contact during normal operation is minimized as follows:

Caution: To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm (8 inches) must be maintained between the antenna for the integrated Wireless LAN Mini PCI Card built in to the screen section and all persons. You are not allowed to disable “standby mode” for the power management function, if you cannot maintain the sufficient antenna separation (at least 20 cm) in any case the LCD is left opened or closed.

FCC ID: ANO20030500CMR, Model: T60H786-U (IBM 11b/g Wireless LAN Mini PCI Adapter)



Note: The transmission diversity function is implemented for the Card (FCC ID: ANO20030500CMR, Model: T60H786-U (IBM 11b/g Wireless LAN Mini PCI Adapter)). The function does not emit radio frequencies simultaneously from both antennas. One of the antennas is selected automatically or manually (by users) to have good quality of radiocommunication.

Use of wireless options

Your ThinkPad computer is approved for use of one of the granted Wireless LAN Mini-PCI Cards together with the granted *Bluetooth* module in the CDC slot and *Bluetooth* PC Card II option in the PC Card slot simultaneously. Make sure of the following conditions on use of these wireless features.

1. Visit the IBM site at www.ibm.com/pc/qtechinfo/MIGR-43693.html and confirm the updated list of RF option devices that have been approved to cooperate with the integrated wireless feature.
2. When you use any other RF option device that is not listed on the IBM site, all other wireless features including the integrated transmitter in your ThinkPad computer are required to be turned off.
3. Users must follow the RF Safety instructions on wireless option devices that are included in the RF option device's user's manual.

iv) Radio Frequency interference requirements

An improper installation or unauthorized use may cause harmful interference to radio communications. Also any tampering of the internal antenna will void the FCC certification and your warranty. Refer to the "Appendix C. Notices, Electronic emission notices" of the *ThinkPad R50 Series Service and Troubleshooting Guide* for more detail.

Canada — Industry Canada (IC)

This Regulatory Notice consists of two packages: Part Number 13N6186 (this notice) and Part Number 13N6245.

This document contains only information about model T60H786-U, (IC Certification Number: 349E-T60H786, IBM 11b/g Wireless LAN Mini PCI Adapter).

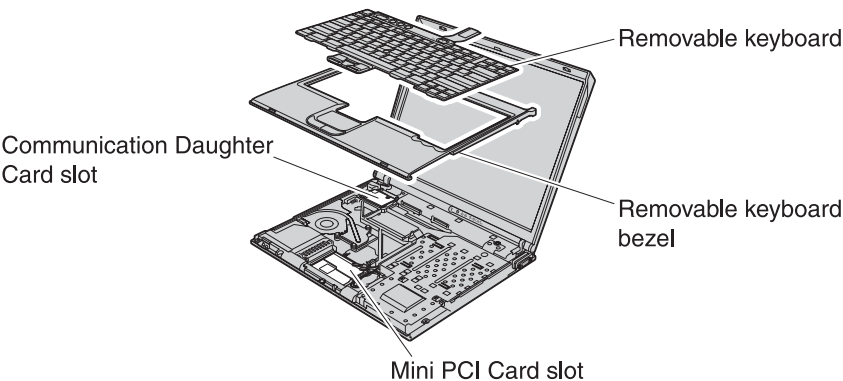
For information about the following wireless adapters, see the other package, Part Number 13N6245.

IC Certification Number	Model Number
ANO20030400LEG	PH12127-E (IBM 11a/b/g Wireless LAN Mini PCI Adapter)
ANO20020201CLK	WM3B2100 (Intel® PRO/Wireless LAN 2100 3B Mini PCI Adapter)
ANO20040501CX2	WM3B2200BG (Intel PRO/Wireless 2200BG Mini-PCI Adapter from IBM)
ANO20020100MTN	BMDC200 (IBM Integrated <i>Bluetooth</i> III with 56K Modem)

Note: IBM 11b/g Wireless LAN Mini PCI Adapter marketed in US and Canada does not support nor function in the extended channels (12ch, 13ch).

Certification number

The certification number of Industry Canada for each approved Mini-PCI wireless Card or RF Communication Daughter Card (CDC) is affixed on each module installed in the Mini-PCI Card slot or the CDC slot as shown below.



Attention: The ThinkPad R50 Series computer contains an authentication mechanism

You can install or remove each wireless feature by yourself. If you install an unauthorized wireless adapter that is not approved for use in the ThinkPad R50 Series computer, the computer will not start, but only displays an error message and emits beeps.

Low power license-exempt radiocommunication devices (RSS-210)

Common information

Operation is subject to the following two conditions:

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

Exposure of humans to RF fields (RSS-102)

ThinkPad R50 Series computers employ low gain integral antennas that do not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's Web site at www.hc-sc.gc.ca/rpb

Le présent texte de réglementation comprend deux documents : référence 13N6186 (le présent document) et référence 13N6245.

Ce document contient uniquement des informations sur le modèle T60H786-U (numéro d'homologation IC: 349E-T60H786, IBM 11b/g Wireless LAN Mini PCI Adapter).

Pour plus d'informations sur les cartes sans fil suivantes, consultez le second document (référence 13N6245).

Numéro d'homologation IC	Numéro de modèle
ANO20030400LEG	PH12127-E (IBM 11a/b/g Wireless LAN Mini PCI Adapter)
ANO20020201CLK	WM3B2100 (Intel® PRO/Wireless LAN 2100 3B Mini PCI Adapter)
ANO20040501CX2	WM3B2200BG (Intel PRO/Wireless 2200BG Mini-PCI Adapter from IBM)
ANO20020100MTN	BMDC200 (IBM Integrated <i>Bluetooth</i> III with 56K Modem)

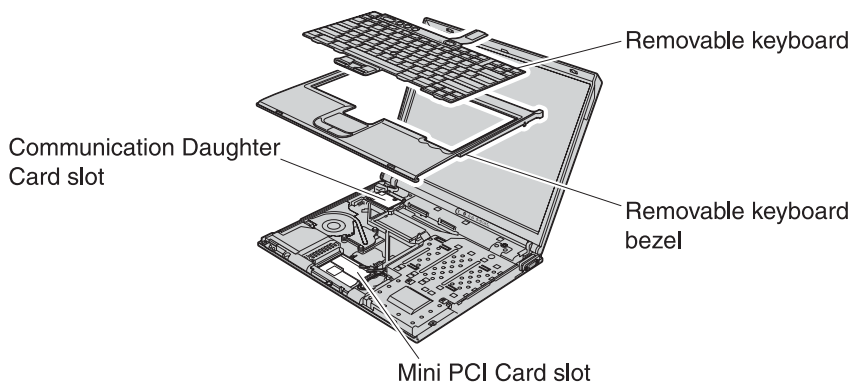
Remarque: La carte IBM 11b/g Wireless LAN Mini PCI Adapter commercialisée aux Etats-Unis et au Canada ne prend pas en charge/ne fonctionne pas sur les réseaux étendus (12 et 13 canaux).

Numéro d'homologation

Le numéro d'homologation d'Industrie Canada pour chaque carte Mini-PCI sans fil homologuée ou carte RF CDC (Communication Daughter Card) est indiqué sur chaque module installé dans l'emplacement Mini-PCI Card ou CDC comme illustré ci-dessous.

Les cartes sans fil applicables sont les suivantes:

- IC: 349E-T60H786, Model: T60H786-U (IBM 11b/g Wireless LAN Mini PCI Adapter)



Attention: L'ordinateur ThinkPad R50 Series contient un mécanisme d'authentification.

Vous pouvez installer ou désinstaller tout dispositif sans fil. Si vous installez une carte sans fil qui n'est pas homologuée pour l'ordinateur ThinkPad R50 Series, l'ordinateur ne démarrera pas; un message d'erreur sera affiché et des bips sonores seront émis.

Remarque relative aux appareils de communication radio de faible puissance sans licence (RSS-210)

Le fonctionnement de ce type d'appareil est soumis aux deux conditions suivantes:

1. Cet appareil ne doit pas perturber les communications radio, et
2. cet appareil doit supporter toute perturbation, y compris les perturbations qui pourraient provoquer son dysfonctionnement.

Exposition des êtres humains aux champs radioélectriques (RF) (RSS-102)

Le ThinkPad R50 Series utilise des antennes intégrales à faible gain qui n'émettent pas un champ électromagnétique supérieur aux normes imposées par le Ministère de la santé canadien pour la population. Consultez le Safety Code 6 sur le site Web du Ministère de la santé canadien à l'adresse "www.hc-sc.gc.ca/rpb".

Telecommunication notices

Federal Communications Commission (FCC) and Telephone Company Requirements (Part 68 of the FCC Rules)

1. The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone fax machine unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent, and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual.

In order to program this information into your computer, you should be sure to follow the installation instructions for your fax software package.
2. This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.
3. The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. The REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3).
4. If the built-in modem causes harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But, if advance notice isn't practical, you will be notified as soon as possible. You will be advised of your right to file a complaint with the FCC.
5. Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper operation of your equipment. If they do, you will be given advance notice so as to give you an opportunity to maintain uninterrupted service.
6. If you experience trouble with this built-in modem, contact your IBM Authorized Seller, or the IBM Corporation, 500 Columbus Avenue, Thornwood, NY 10594, 1-800-772-2227, for repair/warranty information. The telephone company may ask you to disconnect this equipment from

the network until the problem has been corrected, or until you are sure the equipment is not malfunctioning.

7. No customer repairs are possible to the modem. If you experience trouble with this equipment, contact your Authorized Seller or the IBM Corporation for information.
8. The modem may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs. Contact your state public utility commission or corporation commission for information.
9. When ordering network interface (NI) service from the Local Exchange Carrier, specify service arrangement USOC RJ11C.
10. A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.
11. If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this Data/Fax Modem does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.
12. The software contained in this Data/Fax Modem to allow user access to the network must be upgraded to recognize newly established network area codes and exchange codes as they are placed into service.

Industry Canada requirements

Notice

This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of communication. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution

Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

The Ringer Equivalence Number (REN) for this terminal equipment is 0.0. The REN assigned to each terminal equipment provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed five.

Avis

Le présent matériel est conforme aux spécifications techniques d'Industrie Canada applicables au matériel terminal. Cette conformité est confirmée par le numéro d'enregistrement. Le sigle IC, placé devant le numéro d'enregistrement, signifie que l'enregistrement s'est effectué conformément à une déclaration de conformité et indique que les spécifications techniques d'Industrie Canada ont été respectées. Il n'implique pas qu'Industrie Canada a approuvé le matériel.

Avant d'installer ce matériel, l'utilisateur doit s'assurer qu'il est permis de le raccorder aux installations de l'entreprise locale de télécommunication. Le matériel doit également être installé en suivant une méthode acceptée de raccordement. Dans certains cas, les fils intérieurs de l'entreprise utilisés pour un service individuel à ligne unique peuvent être prolongés au moyen d'un dispositif homologué de raccordement (cordon prolongateur téléphonique interne). L'abonné ne doit pas oublier qu'il est possible que la conformité aux conditions énoncées ci-dessus n'empêchent pas la dégradation du service dans certaines situations. Actuellement, les entreprises de télécommunication ne permettent pas que l'on raccorde leur matériel à des jacks d'abonné, sauf dans les cas précis prévus par les tarifs particuliers de ces entreprises.

Les réparations de matériel homologué doivent être effectuées par un centre d'entretien canadien autorisé désigné par le fournisseur. La compagnie de télécommunications peut demander à l'utilisateur de débrancher un appareil à la suite de réparations ou de modifications effectuées par l'utilisateur ou à cause de mauvais fonctionnement.

Pour sa propre protection, l'utilisateur doit s'assurer que tous les fils de mise à la terre de la source d'énergie électrique, des lignes téléphoniques et des canalisations d'eau métalliques, s'il y en a, sont raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales.

Avertissement

L'utilisateur ne doit pas tenter de faire ces raccordements lui-même; il doit avoir recours à un service d'inspection des installations électriques, ou à un électricien, selon le cas.

L'indice d'équivalence de la sonnerie (IES) du présent matériel est de 0.0. L'IES assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être raccordés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5.

Trademarks

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Part Number: 13N6186

Printed in USA

(1P) P/N: 13N6186

