



Part Number: 62P9652

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## **Wireless Regulatory Notice for ThinkPad X30 Series Multiple Transmitters Model**

This notice is a supplementary document of the “ThinkPad® X30 Series Service and Troubleshooting Guide.”

The ThinkPad X30 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 are requested to install and use your ThinkPad computer in strict accordance with the instructions as described hereafter. Before you use the ThinkPad X30 computer, please read this document.

## 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.

### **i) Installation of the integrated wireless modules**

The integrated wireless modules (Wireless LAN Mini-PCI Card and Bluetooth card) are preinstalled by IBM, and you are not permitted to install nor replace the integrated modules by yourself.

If your integrated Wireless LAN Mini-PCI Card or Bluetooth card requires replacement via the proper step shown in “Chapter 3. Getting help and service from IBM” of the ThinkPad X30 Series Service and Troubleshooting Guide, IBM will request you to send your computer with the card(s) to IBM so that IBM will repair it.

### **ii) The FCC RF Safety Requirement**

The radiated output power of Wireless LAN Mini-PCI Card and Bluetooth card are far below the FCC radio frequency exposure limits. Nevertheless, the ThinkPad X30 computer shall be used in such a manner that the potential for human contact during normal operation is minimized as follows:

#### **Multiple Transmitters model**

If you find the FCC ID “ANOTK1TP10HOP” on the label at the bottom side of your ThinkPad computer, your computer is approved as a Multiple Transmitters device that is permitted to use the integrated Wireless LAN Mini-PCI Card and Bluetooth card with two or more wireless option PC Cards in the PC Card slot simultaneously. Please make sure of the following conditions on use of option wireless cards.

#### **Use of Wireless options**

Please make sure of the following when you use a Bluetooth option or wireless option PC Card in your ThinkPad computer.

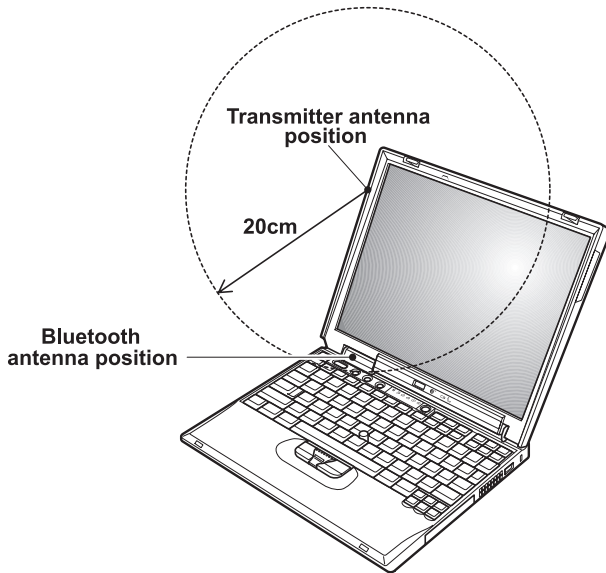
1. Visit the IBM® site at [www.ibm.com/pc/qtechinfo/MIGR-39377.html](http://www.ibm.com/pc/qtechinfo/MIGR-39377.html) and confirm the updated list of RF option devices that have been approved to cooperate with the integrated wireless feature.
2. When you use any other RF option device that is not listed on the IBM site, all other wireless features including the integrated transmitter in your ThinkPad computer are required to be turned off.
3. Users are requested to follow the RF Safety instructions on wireless option devices that are included in the RF option device’s user’s manual.

#### **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.**

The Bluetooth antenna is located in the left hinge portion of keyboard. Transmitted energy from the Bluetooth device is very low compared to other RF devices. Therefore a 20 cm separation from the Bluetooth antenna is not required.



### **iii) Interference Statement**

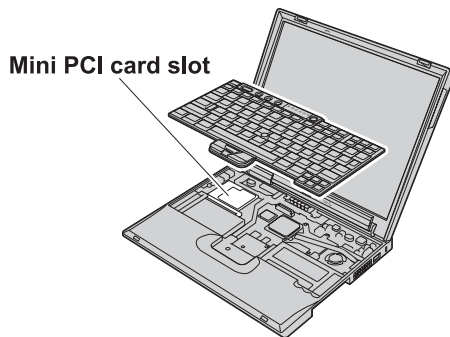
An improper installation or unauthorized use may cause harmful interference to radio communications. Also any tampering of the internal antenna will void the FCC certification and your warranty. Refer to the "Appendix D. Notices, Electronic emission notices" of the ThinkPad X30 Series Service and Troubleshooting Guide for more detail.

## Canada — Industry Canada (IC)

### Certification number

The term “ IC” before the equipment certification number only signifies that the Industry Canada technical specifications were met. The certification number “**IC: 349E-TK1TP10B**” on the label at the bottom of the computer is for the integrated Bluetooth module. The number for the integrated wireless LAN Mini-PCI Card is stuck on the Card installed in the Mini-PCI Card slot located under the keyboard, as shown below. To remove the keyboard, refer to “Removing the keyboard” of the Service and Troubleshooting Guide.

**Attention:** You can install or remove the wireless LAN Mini-PCI Card by yourself. If you install a wireless LAN Mini-PCI Card that is not authorized for the ThinkPad X30 Series computer, the computer does not start, but only displays an error message and emits beeps.



### Low Power License-Exempt Radiocommunication 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, including interference that may cause undesired operation of the device.

### Numéro d'homologation signifie

Le terme «IC» avant le numéro d'homologation signifie seulement que les normes d'Industrie Canada ont été respectées.

Le numéro d'homologation IC: 349E-TK1TP10B qui figure sur l'étiquette apposée sous l'ordinateur concerne le module Bluetooth intégré. Le numéro d'homologation pour la carte mini-PCI pour réseau local sans fil est collé sur la carte installée dans l'emplacement correspondant, comme indiqué dans la figure précédente.

**Attention :** Vous pouvez installer ou retirer la carte mini-PCI pour réseau local sans fil vous-même. Si vous avez installé une carte de ce type qui n'est

pas homologuée pour l'ordinateur ThinkPad X30 Series, l'ordinateur ne démarrera pas ; un message d'erreur sera affiché et des bips sonores seront émis.

### **Permis d'émission à faible puissance - Cas des appareils de communications radio (CNR-210)**

Le fonctionnement de ce type d'appareil est soumis aux deux conditions suivantes: (1) Cet appareil peut perturber les communications radio, et (2) cet appareil doit supporter toute perturbation, y compris les perturbations qui pourraient provoquer un dysfonctionnement.

## **Europe — EU Declaration of Conformity for IBM High rate wireless LAN mini PCI Adapter with modem II**

- Hereby, Intel, declares that this IBM High rate wireless LAN mini PCI Adapter with modem II is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
- Intel vakuuttaa täten että IBM High rate wireless LAN mini PCI Adapter with modem II tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
- Hierbij verklaart Intel dat het toestel IBM High rate wireless LAN mini PCI Adapter with modem II in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
- Bij deze verklaart Intel dat IBM High rate wireless LAN mini PCI Adapter with modem II voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijn 1999/5/EC.
- Par la présente Intel déclare que l'appareil IBM High rate wireless LAN mini PCI Adapter with modem II est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
- Par la présente, Intel déclare que ce IBM High rate wireless LAN mini PCI Adapter with modem II est conforme aux exigences essentielles et aux autres dispositions de la directive 1999/5/CE qui lui sont applicables.
- Härmed intygar Intel att denna IBM High rate wireless LAN mini PCI Adapter with modem II står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.
- Undertegnede Intel erklærer herved, at følgende udstyr IBM High rate wireless LAN mini PCI Adapter with modem II overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
- Hiermit erklärt Intel, dass sich dieser/diese/dieses IBM High rate wireless LAN mini PCI Adapter with modem II in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet. (BMW i)

- Hiermit erklärt Intel die Übereinstimmung des Gerätes IBM High rate wireless LAN mini PCI Adapter with modem II mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/EG. (Wien)
- ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Intel ΔΗΛΩΝΕΙ ΟΤΙ IBM High rate wireless LAN mini PCI Adapter with modem II ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
- Con la presente Intel dichiara che questo IBM High rate wireless LAN mini PCI Adapter with modem II è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
- Por medio de la presente Intel declara que el IBM High rate wireless LAN mini PCI Adapter with modem II cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
- Intel declara que este IBM High rate wireless LAN mini PCI Adapter with modem II está conforme com os requisitos essenciais e outras provisões da Directiva 1999/5/CE.

**CE 0682** 



**Declaration of Conformity**

We Xircom, Inc. of 2300 Corporate Center Drive, Thousand Oaks, CA 91320 declare that the 802.11b Wireless Ethernet + AC'97 Modem Mini PCI Type IIIA Adapter, model: **M3AWEBS56GA** is in conformance with the essential requirements of the European Council Directive:

1999/5/EC (R&TTE)	Radio and Telecommunications Terminal Equipment Directive (Following Annex II and IV of this Directive)
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The essential requirements being:

Safety of the user (article 3.1.a)	Following directive 73/23/EEC
Electromagnetic Compatibility (article 3.1.b)	Following directive 89/336/EEC
Effective use of the spectrum (article 3.2)	Following notified body opinion #: E812840N-EO from CETECOM ICT services GmbH (0682)

This declaration is based upon compliance to the following standards:

EN 60950 (1992 2 <sup>nd</sup> Edition with amendments 1, 2, 3, 4)	Safety Information Technology Equipment, Including Electrical Business Equipment.
EN 301 489-1, Aug. 2000 EN 301 489-17, Sept. 2000	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services: Part 1: Common technical requirements Part 17: Specific conditions for Wideband Data and Hiperlan equipment
EN 300 328-2, July 2000	Electromagnetic compatibility and Radio Spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques. Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
EN 55022 (C.I.S.P.R. 22 Class B)	RF Emissions Control
EN 55024 (1998)	Information Technology Equipment – Immunity Characteristics – Limits & methods of measurement
TBR 21	Analogue PSTN Standard with Advisory Notes in ETSI Guides EG 201 120 and EG 201 121
EG 201 120, & 201 121	E.T.S.I. ATAAB and National Advisory Notes for TBR 21

This declaration is made under our sole responsibility.  
Authorized Signature:

Date: 30 November, 2001



Eric Meyers,  
Director of Finance Europe  
Authorised to sign on behalf of  
Patrice C. Scantena  
Director of Xircom Inc.

**Throughout the European Economic Area, authorization for use is restricted as follows:**

- 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 autorisé 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	Bande de fréquence restreinte : seuls les canaux 10 à 11 (2457 et 2462 MHz respectivement) doivent être utilisés en France. Toute utilisation, qu'elle soit intérieure ou extérieure, est soumise à autorisation. Vous pouvez contacter l'Autorité de Régulation des Télécommunications ( <a href="http://www.art-telecom.fr">http://www.art-telecom.fr</a> ) pour la procédure à suivre.
- France F	Restricted frequency band: only channels 10 and 11 (2457 MHz and 2462 MHz respectively) may be used in France. License required for every installation, indoor and outdoor installations. Please contact ART for procedure to follow.
- Deutschland D	Anmeldung im Outdoor-Bereich notwendig, aber nicht genehmigungspflichtig. Bitte mit Händler die Vorgehensweise abstimmen.
- Germany D	License required for outdoor installations. Check with reseller for procedure to follow.



- Italia I	E' necessaria la concessione ministeriale anche per l'uso interno. Verificare con i rivenditori la procedura da seguire. L'uso per installazione in esterni non e' permessa.
- Italy I	License required for indoor use. Use with outdoor installations not allowed.
- the Netherlands NL	License required for outdoor installations. Check with reseller for procedure to follow.
- Nederland NL	Licentie verplicht voor gebruik met buitenantennes. Neem contact op met verkoper voor juiste procedure.

## Europe — EU Declaration of Conformity for Bluetooth Daughter Card

Hereby TDK Systems Europe, Ltd. declares that the Bluetooth 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.

TDK Systems Europe, Ltd. déclare par la présente que le dispositif Bluetooth intégré à ce produit est en conformité avec les prescriptions essentielles et autres dispositions appropriées de la Directive 1999/5/EC.

IBM décline toute responsabilité en cas de non-respect de cette directive résultant d'une modification non recommandée du produit.

TDK Systems Europe, Ltd. erklärt hiermit, dass die in diesem Produkt integrierte drahtlose Bluetooth-Einheit die Voraussetzungen sowie alle wichtigen Anforderungen der Richtlinie 1999/5/EC erfüllt.

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



**DECLARATION OF CONFORMITY**

We  
 [Manufacturer's name and address]

.....  
**TDK Systems Europe Ltd.**  
 .....  
**126 Colindale Avenue**  
 .....  
**Colindale**  
 .....  
**London NW9 5HD**  
 .....  
**United Kingdom**  
 .....

declare under our sole responsibility that, following consultation from Notified Body:

.....  
**Phoenix Test-Lab GmbH of Wilhelmshafen, Germany (NB ID 0700)**  
 .....

the product:  
 [Brandname, name and model]

.....  
 brandname: **IBM**  
 .....  
 model name: **Bluetooth Daughter Card**  
 .....

when mounted in IBM computer models:

.....  
**ThinkPad A30p Series; ThinkPad A30m Series; ThinkPad A31p Series;**  
 .....  
**ThinkPad T30 Series; ThinkPad X23 Series; ThinkPad X24 Series**  
 .....

to which this declaration relates, is in conformity with the following standard(s) or other normative document(s):

.....  
**ETS 300 328-1 V1.2.2 (2000-07)**  
 .....  
**ETS 300 826 11/1997**  
 .....  
**EN 60950:1992 + A1:1993, A2:1993, A3:1995, A4:1997, A11:1997**  
 .....  
**EU recommendation 1999/519/EC**  
 .....

following the provisions of **Directive 1999/5/EC**, also known as the "R&TTE Directive".

City: **London** Date: **April 5, 2001**  
 Name : **Peter de Wit** Title: **Approvals Manager**

Signature:  


## European Union

Bluetooth (maximum power < 10 mW)	
- France F	A l'intérieur des bâtiments, utilisation sans contrainte géographique avec puissance maximale de 10 mW dans la totalité de la bande 2400-2483.5 MHz. A l'extérieur des bâtiments, utilisation non autorisée.
- France F	Indoor, no geographical restriction with a maximum power of 10 mW within the whole band of 2400-2483.5 MHz. Outdoor, the band is not opened.
- Italia I	E' necessaria la concessione ministeriale anche per l'uso. L'uso per installazione in esterni non e' permessa.
- Italy I	License required for indoor use. Use with outdoor installations not allowed.

### Notice for Users in India

The equipment type approval does not imply that the frequencies will be cleared automatically/operating licence will be granted as these are matters to be examined on case by case basis on the receipt of the application to WPC.

### Notice for Users in Singapore

This equipment is for use only within the confined area of a building.