

## About this manual

This manual contains regulatory information for the ThinkPad® Helix.

## Read first - regulatory information

Read this document before using your tablet. This tablet complies with the radio frequency and safety standards of any country or region in which it has been approved for wireless use. Install and use your tablet according to the following instructions.

The latest Regulatory Notice manual is available on the Lenovo Web site. To download the manual, go to <http://www.lenovo.com/support>, and then follow the instructions on the screen.

Veillez lire le présent document avant d'utiliser votre ordinateur. Cet ordinateur est conforme aux normes de fréquence radio et de sécurité de tous les pays ou régions dans lesquels son utilisation sans fil a été homologuée. Installez et utilisez l'ordinateur en respectant les instructions qui suivent.

La dernière version du manuel Regulatory Notice est disponible sur le site Web de Lenovo. Pour la télécharger, rendez-vous sur <http://www.lenovo.com/support> et suivez les instructions à l'écran..

## USA - Federal Communications Commission (FCC)

This tablet contains the following wireless devices and underwent the certification process of FCC CFR 47 Part 2 section 1093, Part 15 Subpart C and Subpart E, Part 27, Part 22 Subpart H, and Part 24 Subpart E under each respective FCC ID below. The FCC ID is indicated on the rear cover of your tablet.

- FCC ID: PU5-TP00065A
  - Wireless LAN/Bluetooth combo module (model: 7265D2W)
- FCC ID: PU5-TP00065AUC
  - Wireless WAN module (model: EM7345 and model: 7265D2W)

**Note:** The wireless LAN modules marketed in the U.S.A. do not support or function in the extended channels (12ch, 13ch).

The preinstalled wireless LAN/Bluetooth combo module (model: 7265D2W) also has been tested and found to comply with the limits for the Class B digital device

regarding FCC Part 15 Subpart B. Refer to “Electronic emissions notices” on page 7. Also the device underwent the certification process for the Part 15 Subpart C under the FCC ID: PD97265D2.

The wireless module is preinstalled by Lenovo®, and is not removable by you. You are prohibited to replace it with any other wireless modules. If the wireless module requires replacement during warranty, it must be serviced by a Lenovo authorized servicer.

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## **Preinstalled NFC feature**

If you find the FCC ID: MCLT77H519 on the bottom cover of your tablet, your tablet integrates a Near Field Communication (NFC) device (Model: T77H519).

The NFC device has been tested and found to comply with the limits for the Class B digital device regarding FCC Part 15 Subpart B. Refer to “Electronic emissions notices” on page 7. Also the device underwent the certification process for the Part 15 Subpart C under the FCC ID: MCLT77H519.

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## **Digitizer function**

If you find the FCC ID: PU5-TP00065AWD on the bottom cover of your tablet, your tablet employs a digitizer function which is able to sense the Digitizer Pen shipped associated with your tablet. The digitizer emits extra low power radio frequency and complies with the FCC Part 15 Subpart C.

Also the digitizer has been tested and found to comply with the limits for the Class B digital device regarding FCC Part 15 Subpart B. For more information, refer to “Electronic emissions notices” on page 7.

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## **FCC RF exposure compliance**

The radiated output power of your tablet is below the FCC radio frequency exposure limits. Nevertheless, it should be used in such a manner that the potential for human contact is minimized during normal operation of your tablet.

**CAUTION:**

The radiated energy from the antennas conforms to the FCC limit of the SAR (Specific Absorption Rate) requirement regarding 47 CFR Part 2 Section 1093, when the tablet operates in the conventional setting. The SAR is determined to measure at the highest power level in each frequency band. However, the actual SAR level of your tablet in the operation bands is well below the maximum value in some measurement plots. The ThinkPad Helix tablet can adjust the cellular transmission power automatically, based upon the proximity to the human body and orientation. Namely, the closer distance from your body to the tablet will lower the cellular transmission power level. The tablet has been tested and found to meet the FCC RF exposure guidelines.

To know the location of transmission antennas for the wireless LAN module, see “Locating the UltraConnect™ wireless antennas” in the *User Guide*.

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## Emergency calls

The wireless WAN module does not support voice calls, hence their use for essential communication is not possible, including emergency calls regarding the E911 rule.

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## Simultaneous use of RF transmitters

Your tablet is approved for simultaneous use of the integrated wireless LAN and Bluetooth transmitters.

Make sure of the following conditions when you use any other external wireless option device:

- When you use any other RF option device, you are requested to confirm that the device conforms to the RF Safety requirement and is approved to use for your tablet.
- You must follow the RF Safety instructions of wireless option devices that are included in the user manual of the RF option device.
- If wireless options are prohibited to use in conjunction with another transmitters, you must turn off all other wireless features in your tablet.

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## Radio Frequency interference requirements

Each device has been tested and found to comply with the limits for a Class B digital device pursuant to FCC Part 15 Subpart B. Refer to “Electronic emissions notices” on page 7 .

When you use a wireless LAN adapter in the 802.11 a/n transmission mode, note that high power radars are allocated as primary users of the 5250 to 5350 MHz

and 5650 to 5850 MHz bands. These radar stations can cause interference with and/or damage this device.

## Canada - Industry Canada (IC)

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### IC certification number

Your tablet contains the following wireless devices, and the IC certification number for the wireless device is as below. The IC certification number is indicated on the rear cover of your tablet.

- IC: 4182A-TP00065A
  - Wireless LAN/Bluetooth combo module (model: 7265D2W)
- IC: 4182A-TP00065AUC
  - Wireless WAN module (model: EM7345 and model: 7265D2W)

**Note:** The wireless LAN modules marketed in Canada do not support or function in the extended channels (12ch, 13ch).

The preinstalled wireless LAN/Bluetooth combo module (model: 7265D2W) also has been tested and found to comply with the limits regarding IC RSS-210, Low-power Licence-exempt Radio communication Devices.

The wireless module is preinstalled by Lenovo, and is not removable by you. You are prohibited to replace it with any other wireless modules. If the wireless module requires replacement during warranty, it must be serviced by a Lenovo authorized servicer.

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### Preinstalled NFC feature

If you find an indication “IC: 2878D-T77H519” on the bottom cover of your tablet, your tablet integrates a Near Field Communication (NFC) device (Model: T77H519).

The NFC device has been tested and found to comply with the limits regarding IC RSS-210, Low-power Licence-exempt Radiocommunication Devices.

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### Digitizer function

If you find an indication “IC: 4182A-TP00065AWD” on the bottom cover of your tablet, your tablet employs a digitizer function which is able to sense the Digitizer Pen shipped associated with your tablet. The digitizer emits extra low power radio frequency and complies with the IC standard (RSS-210).

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

Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

The transmitter devices have been designed to operate with the antennas integrated in the tablet, and having a maximum gain of within 3 dBi.

The maximum antenna gain permitted for devices in the 5250-5350 MHz, 5470-5725 MHz, and 5725-5825 MHz bands complies with the e.i.r.p. limit in section A9.2 of RSS-210.

When you use a wireless LAN adapter in the 802.11 a/n transmission mode:

- The devices for the band 5150–5250 MHz are only for indoor usage to reduce potential for harmful interference to co-channel Mobile Satellite systems.
- High power radars are allocated as primary users (meaning they have priority) of 5250–5350 MHz and 5650–5850 MHz and these radars could cause interference and/or damage to LELAN (Licence-Exempt Local Area Network) devices.

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## **Exposure of humans to RF fields (RSS-102)**

The tablets 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 <http://www.hc-sc.gc.ca/>

The radiated energy from the antennas connected to the wireless modules conforms to the Canada Portable RF exposure limit regarding IC RSS-102 Issue 4 clause 4.1 set forth for an uncontrolled environment, and are safe for intended operation in the conventional setting. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

## **Canada - Industrie Canada (IC)**

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### **Numéro de certification IC**

Votre tablette contient les dispositifs sans fil suivants, dont le numéro de certification IC figure ci-dessous. Le numéro de certification IC se trouve sur le couvercle arrière de votre tablette.

- IC: 4182A-TP00065A
  - Carte combinée sans fil LAN/Bluetooth (modèle : 7265D2W)
- IC: 4182A-TP00065AUC
  - Carte réseau étendu sans fil modèle: EM7345 et modèle: 7265D2W)

**Remarques :** La fonctionnalité de réseau local sans fil offerte au Canada ne prend pas en charge les canaux étendus (12ch et 13ch).

La carte combinée sans fil LAN/Bluetooth préinstallée (modèle : 7265D2W) a été testée et déclarée conforme aux limites des appareils de radiocommunication basse tension sans licence d'utilisation définies par la norme CNR-210 d'Industrie Canada.

Cette carte sans fil est préinstallée par Lenovo®; vous ne pouvez pas la retirer. Il vous est interdit de la remplacer par une autre carte sans fil. Si la carte sans fil doit être remplacée durant la période de garantie, le remplacement doit être effectué par un préposé à l'entretien agréé par Lenovo.

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## **Carte à puce sans NFC contact préinstallée**

Si la mention « IC : 2878D-T77H519 » figure sur le carter inférieur de votre tablette, cela implique qu'elle est dotée d'un dispositif NFC (Near Field Communication) (modèle : T77H519).

Le dispositif NFC a été testé et déclaré conforme aux limites des appareils de radio-communication basse tension IC CNR-210 sans licence d'utilisation.

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## **Fonction numériseur**

Si la mention « IC : 4182A-TP00065AWD » figure sur le carter inférieur de votre tablette, cela implique qu'elle est dotée d'une fonction numériseur capable de détecter le stylet livré avec votre tablette. Le numériseur émet une fréquence radio de très faible puissance et est conforme à la norme IC (CNR-210).

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## **Appareils de radio-communication basse tension sans licence d'utilisation (CNR-210)**

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

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

Les appareils émetteurs ont été conçus pour fonctionner avec les antennes intégrées à la tablette et avoir un gain d'antenne maximal de 3 dBi.

Le gain d'antenne maximal autorisé pour les appareils dans les bandes de fréquence 5250-5350 MHz, 5470-5725 MHz et 5725-5825 MHz est conforme à la limite p.i.r.e (puissance isotrope rayonnée équivalente) définie dans la section A9.2 du CNR-210.

Lorsque vous utilisez une carte de réseau local sans fil dans le mode de transmission 802.11 a/n :

- Les appareils destinés à la bande 5150–5250 MHz devront être exclusivement utilisés en intérieur afin de réduire les risques de perturbations électromagnétiques gênantes sur les systèmes de satellite mobile dans un même canal.
- Les radars à forte puissance sont désignés comme les utilisateurs principaux (c'est-à-dire qu'ils sont prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz. Ils peuvent provoquer des perturbations électromagnétiques sur les appareils de type LELAN (réseau de communication local sans licence) ou les endommager.

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## **Conformité des appareils de radiocommunication aux limites d'exposition humaine aux radiofréquences (CNR-102)**

L'ordinateur utilise des antennes intégrales à faible gain qui n'émettent pas un champ électromagnétique supérieur aux normes imposées par Santé Canada pour la population. Consultez le Code de sécurité 6 sur le site Internet de Santé Canada à l'adresse suivante : <http://www.hc-sc.gc.ca/>

L'énergie émise par les antennes reliées aux cartes sans fil respecte la limite d'exposition aux radiofréquences émises par les appareils portables au Canada telle que définie par Industrie Canada dans la clause 4.1 du document CNR-102, version 4 pour un environnement non contrôlé et permet d'affecter sans danger le produit à l'usage auquel il est destiné. La réduction de l'exposition aux radiofréquences est possible si le produit peut être conservé aussi loin que possible du corps de l'utilisateur ou en définissant une puissance de sortie plus faible si une telle fonction est disponible.

## **Electronic emissions notices**

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### **Federal Communications Commission (FCC) Declaration of Conformity**

The following information refers to the ThinkPad Helix (machine types 20CG and 20CH) with WWLAN, digitizer, and NFC features.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an authorized dealer or service representative for help.

Lenovo is not responsible for any radio or television interference caused by using other than specified or 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:  
Lenovo (United States) Incorporated  
1009 Think Place - Building One  
Morrisville, NC 27560  
Phone Number: 919-294-5900



## Usage environment and your health

Wireless feature (such as Wireless WAN, Wireless LAN, Bluetooth, and so on) emits radio frequency electromagnetic energy like other radio devices. However, the level of energy emitted is far much less than the electromagnetic energy emitted by wireless devices like for example mobile phones.

Due to the fact that wireless feature operates within the guidelines found in radio frequency safety standards and recommendations, Lenovo believes they are safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.



In some situation or environment, the use of wireless feature might be restricted by the proprietor of the building or responsible representatives of the organization. These situations and areas might for example include:

- Using the integrated wireless modules on board of airplanes, in hospitals or near petrol stations, blasting areas (with electro-explosive devices), medical implants or body-worn electronic medical devices, such as pace makers.
- In any other environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies to the use of wireless devices in a specific organization (such as airport or hospital), you are encouraged to ask for authorization to use wireless feature prior to turning on the computer.

## **Precautions against electrostatic discharges (ESD) in inserting or removing the micro-SIM card**

Do not touch the micro-SIM card connectors. As a precaution, always make sure that your tablet is in your hand before you insert or remove the micro-SIM card.

## **Trademarks**

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