

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 has been uploaded on the Web site. To refer to it, go to <http://www.lenovo.com/think/support>, and then click **User Guides & Manuals**.

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 version la plus récente de la Notice relative à la réglementation a été chargée sur le site Web. Pour la consulter, accédez à <http://www.lenovo.com/think/support>, puis sur **User Guides & Manuals**.

USA - Federal Communications Commission (FCC)

This tablet contains the following wireless device and underwent the certification process of FCC CFR 47 Part 2 section 1093, Part 15 Subpart C and Subpart E under the respective FCC ID below.

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

- FCC ID: PU5–TP00045A1IT
 - Wireless LAN (802.11agn) Card (62205ANSFF)

The FCC ID is indicated as the label affixed on the bottom side of your tablet.

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

Preinstalled integrated Bluetooth feature

If you find the FCC ID: QDS-BRCM1046LE on the label at the bottom side of your tablet, your tablet integrates a Bluetooth Card (Model: BCM92070MD_LEN0).

The Bluetooth Card 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: QDS-BRCM1046LE.

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

Preinstalled NFC feature

If you find the FCC ID: MCLT77H395 on the label at the bottom side of your tablet, your tablet integrates a Near Field Communication (NFC) device (Model: T77H395).

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: MCLT77H395.

Digitizer function

If you find the FCC ID: PU5-TP00045A1WD on the label at the bottom side 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.

Exposure to Radio Frequency Radiation

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. ThinkPad Helix has been tested and found to meet the FCC RF exposure guidelines.

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

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.

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:

- Each device is restricted to indoor use due to its operation in the 5150 to 5250 MHz frequency range. FCC requires these products to be used indoors for the frequency range 5150 to 5250 MHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.
- 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)

IC certification number

This section presents the IC certification and model number of wireless device. Your tablet contains the following wireless device, and the IC certification number for the wireless device is affixed on the label at the bottom of your tablet.

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

- IC: 4182A-TP00045A1IT
 - Wireless LAN (802.11agn) Card (62205ANSFF)

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

Preinstalled integrated Bluetooth feature

If you find IC: 4324A-BRCM1046 on the label at the bottom side of your tablet, your tablet integrates a Bluetooth Card (Model: BCM92070MD_LEN0).

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

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

Preinstalled NFC feature

If you find an indication “IC: 4182A-TP00045A1WD” on the label at the bottom side of your tablet, your tablet integrates a Near Field Communication (NFC) device (Model: T77H395).

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

Digitizer function

If you find an indication “IC: 4182A-TP00045A1WD” on the label at the bottom side 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).

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.

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/>

Canada - Industrie Canada (IC)

Numéro de certification IC

Cette section fournit le numéro de modèle et le numéro de certification de chaque périphérique sans fil. Votre tablette contient les périphériques sans fil suivants et

le numéro de certification IC du périphérique sans fil est apposé sur l'étiquette sur le dessous de la tablette.

La carte réseau local sans fil et réseau étendu sans fil sont préinstallées par Lenovo et ne peuvent pas être retirées par l'utilisateur. Vous ne devez pas les remplacer par une autre fonction sans fil. Si la carte réseau local sans fil doit être remplacée pendant la période de garantie, l'opération doit être effectuée par un prestataire de services agréé par Lenovo.

- IC: 4182A-TP00045A11T
 - Wireless LAN (802.11agn) Card (62205ANSFF)

Remarques : La fonction de réseau local sans fil commercialisée au Canada ne prend pas en charge les canaux étendus (12ch, 13ch) et ne fonctionne donc pas sur de tels canaux.

Fonctions Bluetooth intégrées et préinstallées

Si la mention "IC: 4324A-BRCM1046" figure sur l'étiquette sous la tablette, cela implique qu'elle est dotée d'une carte Bluetooth (Modèle : BCM92070MD_LEN0).

La carte Bluetooth a été testée et déclarée conforme aux limites des appareils de radio-communication basse tension IC CNR-210 sans licence d'utilisation.

La carte Bluetooth est préinstallée par Lenovo et ne peut pas être retirée par l'utilisateur. Vous ne devez pas les remplacer par une autre fonction sans fil. Si la carte Bluetooth doit être remplacée pendant la période de garantie, l'opération doit être effectuée par un prestataire de services agréé par Lenovo.

Carte à puce sans NFC contact préinstallée

Si la mention "IC : 2878D-T77H395" figure sur l'étiquette sous la tablette, cela implique qu'elle est dotée d'un dispositif NFC (Near Field Communication) (modèle : T77H395).

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.

Fonction numériseur

Si la mention "IC: 4182A-TP00045A1WD" figure sur l'étiquette sous la 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).

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.

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/>

Electronic emissions notices

The following information refers to the ThinkPad Helix (machine types 3697, 3698, 3700, 3701, and 3702) with WWLAN, digitizer, and NFC features.

Federal Communications Commission (FCC) Declaration of Conformity

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



Industry Canada Class B emission compliance statement

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

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

Wireless interoperability

Wireless LAN PCI Express Mini Card is designed to be interoperable with any wireless LAN product that is based on Direct Sequence Spread Spectrum (DSSS), Complementary Code Keying (CCK), and/or Orthogonal Frequency Division Multiplexing (OFDM) radio technology, and is compliant to:

- The 802.11b/g Standard on Wireless LAN, as defined and approved by the Institute of Electrical and Electronics Engineers.
- The Wireless Fidelity (WiFi) certification as defined by the Wi-Fi Alliance.

Bluetooth device is designed to be interoperable with any Bluetooth product that is compliant to Bluetooth Specification 4.0 as defined by the Bluetooth SIG. Following profiles are supported by Bluetooth device:

- A2DP
- AVRCP
- HFP
- HID
- DUN
- PAN
- HCRP
- SPP
- OPP
- GATT
- Proximity
- Find Me
- Immediate Alert
- Battery Status

Usage environment and your health

Wireless LAN feature and Bluetooth feature emit 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 LAN feature and Bluetooth feature operate within the guidelines found in radio frequency safety standards and recommendations, Lenovo believes the integrated wireless features 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 LAN feature or Bluetooth feature may be restricted by the proprietor of the building or responsible representatives of the organization. These situations and areas may for example include:

- Using the integrated wireless features on board of airplanes, in hospitals or near petrol stations, blasting areas (with electro-explosive devices), medical implants or body-worn electronic medical devices, e.g. 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 on the use of wireless devices in a specific organization (e.g., airport or hospital), you are encouraged to ask for authorization to use wireless LAN feature or Bluetooth feature prior to turning on the tablet.

Precautions against electrostatic discharges (ESD) in inserting or removing the SIM card

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

Trademarks

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ThinkPad

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