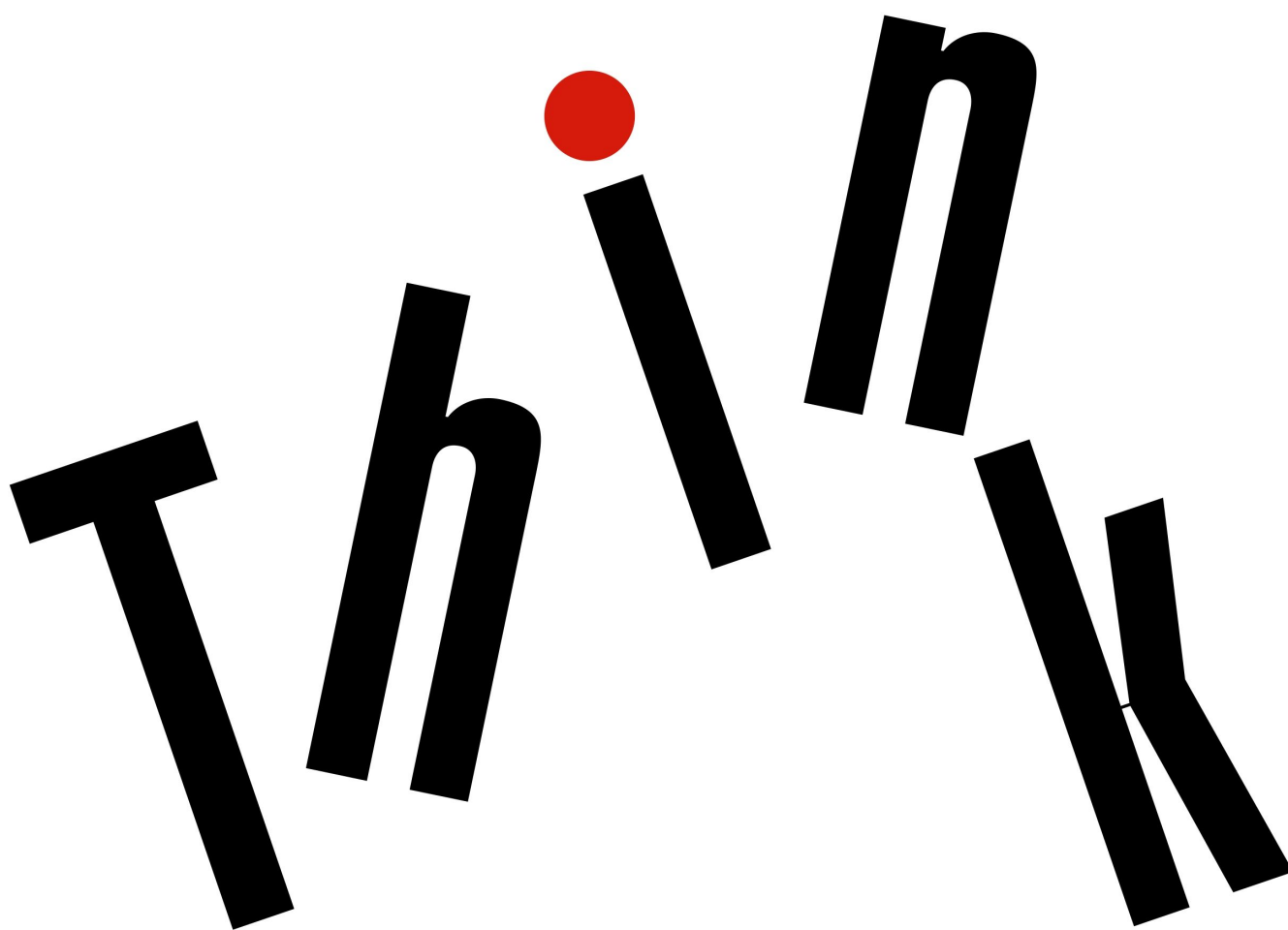




Regulatory Notice for Wireless LAN Modules



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About this manual

This manual contains regulatory information for the following ThinkPad® products.

ThinkPad notebook computer	8265NGW	QCNFA344A	QCNFA435	RTL8822BE	7265NGW
ThinkPad E470, E470c, E570, and E570c	•	•	•		
ThinkPad E475 and E575		•	•		
ThinkPad 13 2nd Gen	•				
ThinkPad S5 2nd Generation	•			•	
ThinkPad 11e 4th Gen			•		•
ThinkPad Yoga 11e 4th Gen			•		•

Chapter 1. Regulatory information for USA and Canada

Read first

Read this document before using your computer. This computer 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 computer 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 on-screen instructions.

Veuillez 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)

I. Approved wireless devices

This section presents the FCC ID and model number of each wireless device.

Preinstalled wireless LAN and Bluetooth module

- FCC ID: PD98265NG (Model: 8265NGW)
- FCC ID: PPD-QCNFA344AH (Model: QCNFA344A)
- FCC ID: PPD-QCNFA435 (Model: QCNFA435)
- FCC ID: TX2-RTL8822BE (Model: RTL8822BE)
- FCC ID: PD97265NGU (Model: 7265NGW)

Notes:

- The wireless LAN and the Bluetooth features operate at different frequencies exclusively, and transmit radio frequencies simultaneously.
- The following wireless LAN modules marketed in the USA and Canada do not support or function in the extended channels (channels 12ch, 13ch):
 - Models: QCNFA344A and QCNFA435

II. Preinstalled wireless LAN and Bluetooth module

The wireless LAN and Bluetooth module in your computer is preinstalled by Lenovo®, and you are prohibited to replace with other wireless adapter nor remove it. If the device requires replacement due to some problem during warranty, it must be serviced by a Lenovo authorized servicer.

i) FCC ID location

The FCC ID for the wireless LAN and Bluetooth module is shown on the enclosure of your computer. For the location of the FCC ID, see “FCC ID and IC Certification information” in *User Guide*.

ii) FCC RF Exposure compliance

The radiated output power of the wireless LAN module authorized to use for your computer is far below the FCC radio frequency exposure limits. Nevertheless, it shall be used in such a manner that the potential for human contact during normal operation is minimized as follows:

CAUTION:

- **For ThinkPad E470, E470c, E475, E570, E570c, E575, 13 2nd Gen, S5 2nd Generation, 11e 4th Gen, and Yoga 11e 4th Gen**

The total radiated energy from the antennas connected to the installed wireless LAN module, conforms to the FCC limit of the SAR (Specific Absorption Rate) requirement, regarding 47 CFR Part 2 section 1093, when the computer was tested in either conventional notebook or tablet computer orientations.

The transmission antennas for the wireless LAN module are located in the LCD cover. See “Locating the UltraConnect™ wireless antennas” in *User Guide*.

iii) 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 emission notices” on page 5.

When you use a wireless LAN module 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.

III. Simultaneous use of RF transmitters

Your computer is approved for simultaneous use of one of the approved wireless LAN modules and the approved Bluetooth device. For a list of those transmitters, refer to “I. Approved wireless devices” on page 1.

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

1. 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 computer.
2. You must follow the RF Safety instructions of the RF option device that are included in the user manual of the RF option device.
3. If the RF option device is prohibited to use in conjunction with another transmitters, you must turn off all other wireless features in your computer.

Canada — Industry Canada (IC)

IC Certification number

I. Approved wireless devices

This section presents the IC Certification and model number of each wireless device.

i) Preinstalled wireless LAN and Bluetooth module

- IC: 1000M-8265NG (Model: 8265NGW)
- IC: 4104A-QCNFA344A (Model: QCNFA344A)
- IC: 4104A-QCFNA435 (Model: QCNFA435)
- IC: 6317A-RTL8822BE (Model: RTL8822BE)

- IC: 1000M-7265NG (Model: 7265NGW)

Notes:

- The wireless LAN and the Bluetooth features operate at different frequencies exclusively, and transmit radio frequencies simultaneously.
- The following wireless LAN modules marketed in the USA and Canada do not support or function in the extended channels (channels 12ch, 13ch):
 - Models: QCNFA344A, QCNFA435

II. Preinstalled wireless LAN and Bluetooth module

The IC Certification number for the wireless LAN and Bluetooth module is shown on the enclosure of your computer. For the location of the IC Certification number, see “FCC ID and IC Certification information” in *User Guide*.

Attention: The wireless LAN and Bluetooth module in your computer is preinstalled by Lenovo, and you are prohibited to replace with other wireless adapter nor remove it. If the device requires replacement due to some problem during warranty, it must be serviced by a Lenovo authorized servicer.

III. Low power license-exempt radio communication devices (RSS-210, RSS-247)

Operation is subject to the following two conditions:

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

When you use a wireless LAN module in the 802.11 a/n transmission mode, not the following:

- The devices for the band 5150–5350 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 LE-LAN (Licence-Exempt Local Area Network) devices.
- 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.

IV. Exposure of humans to RF fields (RSS-102)

The 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 <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 5, Section 4 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.

Numéro d’homologation IC

I. Périphériques sans fil homologués

Cette section présente le numéro d’homologation IC et le numéro de modèle de chaque périphérique sans fil.

i) Module LAN sans fil et Bluetooth préinstallé

- IC: 1000M-8265NG (Model: 8265NGW)
- IC: 4104A-QCNFA344A (Model: QCNFA344A)
- IC: 4104A-QCFNA435 (Model: QCNFA435)
- IC: 6317A-RTL8822BE (Model: RTL8822BE)
- IC: 1000M-7265NG (Model: 7265NGW)

Remarques:

- Les fonctions de réseau local sans fil, et Bluetooth sont opérationnelles à des fréquences différentes exclusivement et émettent des fréquences radio simultanément.
- Les modules de réseau local sans fil suivants commercialisés aux États-Unis et au Canada ne prennent pas en charge les canaux étendus (12ch, 13ch):
 - Modèles: QCNFA344A, QCNFA435

II. Module LAN sans fil et Bluetooth préinstallé

Le numéro de certification IC pour le module LAN sans fil et Bluetooth est représentée sur le boîtier de votre ordinateur. Pour connaître l'emplacement du numéro de certification IC, voir "ID FCC et IC informations de certification" dans le *Guide de l'utilisateur*.

Attention: Le module sans fil LAN et Bluetooth sur votre ordinateur est préinstallé par Lenovo, et il vous est interdit de le remplacer par un autre sans fil adaptateur ni le supprimer. Si l'appareil nécessite un remplacement en raison d'un problème pendant la garantie, il doit être réparé par un technicien agréé Lenovo.

III. Appareils de radio-communication basse tension sans licence d'utilisation (CNR-210, CNR-247)

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

1. Cet appareil ne peut pas causer de perturbations électromagnétiques.
2. Cet appareil doit accepter toutes les perturbations reçues, y compris celles susceptibles d'occasionner un fonctionnement indésirable.

Lorsque vous utilisez une module de réseau local sans fil dans le mode de transmission 802.11 a/n, tenez compte des remarques suivantes:

- Les appareils destinés à la bande 5150–5350 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 LE-LAN (réseau de communication local sans licence) ou les endommager.
- 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.

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

Les ordinateurs utilisent 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 <http://www.hc-sc.gc.ca/>

L'énergie émise par les antennes reliées aux modules sans fil respecte la limite d'exposition aux radiofréquences émises par les appareils portables au Canada telle que définie par Industrie Canada dans la Section 4 du document CNR-102, version 5 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 emission notices

Federal Communications Commission (FCC) Declaration of Conformity

Models: 8265NGW, QCNFA344A, QCNFA435, RTL8822BE, and 7265NGW

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 unauthorized changes or modifications to this equipment. Unauthorized change or modifications could avoid 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
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Telephone: 1-919-294-5900



Usage environment and your health

This computer contains integrated wireless cards that operate within the guidelines identified by radio frequency (RF) safety standards and recommendations; therefore, Lenovo believes this product is safe for use by consumers. These standards and recommendations reflect the consensus of the worldwide scientific community, and result from deliberations of panels and committees of scientists, who continually review and interpret the extensive research literature.

In some situations or environments, the use of wireless devices might be restricted by the proprietor of a building or responsible representative of an organization. For example, these situations and areas might include the following:

- 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 on the use of wireless devices in a specific area (such as an airport or hospital), you are encouraged to use a wireless device prior to turning on the computer.



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