

# Lenovo

Miix 2 11

Regulatory Notice

***lenovo***

## ■ ■ **Lenovo regulatory notice for wireless adapters**

---

This manual contains regulatory information for the following Lenovo product.

- Lenovo Miix 2 11

The following wireless module is supported on Lenovo Miix 2 11:

- BCM943228HMB
- AR5B22

### ■ **Read first — regulatory information**

Please read this document before you use the Lenovo computer. Lenovo 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 computer in strict accordance with the instructions as described hereafter.

Veuillez lire ce document avant d'utiliser l'ordinateur Lenovo. L'ordinateur Lenovo 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 en respectant scrupuleusement les instructions décrites ci-après.

## ■ USA — Federal Communications Commission (FCC)

### I. Factory preinstalled Wireless LAN and Bluetooth Combo module

- FCC ID: QDS-BRCM1058 (Model: BCM943228HMB)
- FCC ID: PPD-AR5B22 (Model: AR5B22)

Wireless LAN and Bluetooth Combo Card marketed in the USA and Canada do not support nor function in the extended channels (12ch, 13ch).

#### i) The FCC RF Exposure compliance:

The radiated output power of the Wireless LAN and Bluetooth Combo Card authorized to use for the your Lenovo 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:

**Note:** The transmission diversity function is implemented for this product. For WLAN card (Model: BCM943228HMB, AR5B22) using Main and Auxiliary antennas for transmission in the IEEE 802.11 a/g/n transmission mode, radio frequency energy is not emitted simultaneously from both Main and Auxiliary antennas. One of the antennas is selected automatically or manually (by users) to have good quality of radiocommunication (transmission diversity function). For WLAN card BCM943228HMB, AR5B22 in the IEEE 802.11 a/g/n, or MIMO (Multiple In Multiple Out) transmission mode, the radio frequency energy is emitted from Main antenna.

#### ii) FCC ID of wireless module:

On the bottom side of your Lenovo computer, you will find an indicator label of the format "Contains Transmitter Module: FCC ID XXXX", where XXXX represents the FCC ID that corresponds to your preinstalled Wireless LAN and Bluetooth Combo module.

### II. Simultaneous use of RF transmitters

Please make sure of the following conditions on use of wireless features:

1. When you use any other RF option device, all wireless features in your Lenovo computer are required to be turned off.
2. Users must follow the RF Safety instructions on wireless option devices that are included in the RF option device's user's manual.

### 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.

The models BCM943228HMB, AR5B22 underwent the certification process with each respective FCC ID number listed in "I. Factory preinstalled Wireless LAN and Bluetooth Combo module" on page 2.

When you use a Wireless LAN and Bluetooth Combo module 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**

#### **I) Factory preinstalled Wireless LAN and Bluetooth Combo modules:**

- IC: 4324A-BRCM1058 (Model: BCM943228HMB)
- IC: 4104A-AR5B22 (Model: AR5B22)

Wireless LAN and Bluetooth Combo Card marketed in the USA and Canada do not support nor function in the extended channels (12ch, 13ch).

There is no certification number of Industry Canada for Mini PCI Express Card shown on the enclosure of your Lenovo computer. Instead you will find an indicator label pointing to the location of the IC Certification number on the bottom side of your Lenovo computer. This label will be of the format "Contains Transmitter Module: Canada IC: XXXX", where XXXX represents the IC ID that corresponds to your preinstalled WLAN module.

#### **II) 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.

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

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

Lenovo 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](http://www.hc-sc.gc.ca/rpb)

The radiated energy from the antennas connected to the wireless adapters conforms to the IC limit of the RF exposure requirement regarding IC RSS-102, Issue 4 clause 4.2.

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 and Bluetooth Combo module 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 bands and these radars could cause interference and/or damage to LELAN (Licence-Exempt Local Area Network) devices.

## **Numéro d'homologation IC**

### **I) Modules combinés Bluetooth et LAN sans fil préinstallés à l'usine:**

- IC: 4324A-BRCM1058 (Model: BCM943228HMB)
- IC: 4104A-AR5B22 (Model: AR5B22)

Les cartes de réseau local sans fil Express mini-PCI commercialisées aux États-Unis et au Canada ne prennent pas en charge les canaux étendus (12ch, 13ch) et ne fonctionnent donc pas sur de tels canaux.

Le boîtier de votre ordinateur Lenovo ne comporte pas de numéro d'homologation IC (Industry Canada) pour la carte mini-PCI Express ; mais sous votre Lenovo, vous trouverez une étiquette indicatrice pointant vers l'emplacement du numéro d'homologation IC. L'étiquette se présente sous la forme "Contains Transmitter Module: Canada IC: XXXX" où XXXX représente l'ID IC qui correspond au module WLAN préinstallé.

### **II) Remarque relative aux appareils de communication radio de faible puissance sans licence (CNR-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.

Les périphériques d'émission sont conçus pour fonctionner avec des antennes intégrées aux Lenovo et ayant un gain maximal de moins de 3 dBi.

### **III) Exposition des êtres humains aux champs radioélectriques (RF) (CNR-102):**

L'ordinateur Lenovo 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](http://www.hc-sc.gc.ca/rpb)".

L'énergie émise par les antennes reliées aux adaptateurs sans fil respecte la limite d'exposition aux radiofréquences telle que définie par Industrie Canada dans la clause 4.2 du document CNR-102.

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.e (puissance isotrope rayonnée équivalente) définie dans la section A9.2 du CNR-210.

Lorsque vous utilisez un adaptateur de module combiné Bluetooth et LAN 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.

## ■ Electronic emission notices

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

- BCM943228HMB
- AR5B22

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 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  
Telephone: 1-919-294-5900



### *Industry Canada Class B Emission Compliance Statement*

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

### *Avis de conformité à la réglementation d'Industrie Canada*

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

## Trademarks

Lenovo, the Lenovo logo are trademarks of Lenovo in the United States, other countries, or both.

Other company, product, or service names may be trademarks or service marks of others.

