

Regulatory Notice



Lenovo

Read this 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 <https://support.lenovo.com> and then follow the on-screen instructions.

Lisez ce document avant d'utiliser votre ordinateur. Cette ordinateur est conforme aux normes de fréquence radio et de sécurité du pays ou de la région où son utilisation sans fil est autorisée. Installez et utilisez votre ordinateur en vous conformant aux instructions ci-dessous.

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

First Edition (April 2024)

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About this manual

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

- (1) WLAN/Bluetooth combo module RTL8822CE
- (2) WLAN/Bluetooth combo module RTL8852BE
- (3) WLAN/Bluetooth combo module RTL8852CE
- (4) WLAN/Bluetooth combo module QCNFA725
- (5) WLAN/Bluetooth combo module MT7921
- (6) WLAN/Bluetooth combo module MT7922A12L
- (7) WLAN/Bluetooth combo module MT7922A22M
- (8) WLAN/Bluetooth combo module AX201NGW
- (9) WLAN/Bluetooth combo module AX201D2W
- (10) WLAN/Bluetooth combo module AX211NGW
- (11) WLAN/Bluetooth combo module AX211D2W
- (12) WLAN/Bluetooth combo module BE200D2W
- (13) WWAN module L860-GL-16
- (14) WWAN module FM101-GL
- (15) WWAN module EM05-CE
- (16) WWAN module EM05-G
- (17) WWAN module FM350-GL
- (18) WWAN module T99W175
- (19) WWAN module RM520N-GL
- (20) WWAN module EM160R-GL
- (21) WWAN module EM05-CN
- (22) NFC module T77H747
- (23) RFID module R8XXEA (R8XXEA-V3)
- (24) Human Presence Sensing® module X4C007
- (25) WWAN module EM061K-GL

Note: 9560NGW R is a sub-model of 9560NGW, its certification is covered by 9560NGW.

Product	Compliance ID	Supported wireless module
ThinkPad X1 Carbon Gen 12	TP00150A	(11)(12)(19)(20)(21)(22)
ThinkPad X1 2-in-1 Gen 9	TP00151A	(11)(12)(19)(20)(22)
ThinkPad X13 Gen 5	TP00145C	(11)(12)(17)(21)(22)(25)
ThinkPad X13 2-in-1 Gen 5	TP00146B	(11)(12)(20)(21)(22)(25)

Notes:

- Intel models: computer models with the Intel microprocessor
- AMD models: computer models with the AMD microprocessor

Chapter 1. Regulatory information for users in USA and Canada

USA - Federal Communications Commission (FCC)

Depending on your product configuration, this device may contain license-exempt wireless radio modules, and also WWAN cellular radio modules, that are compliant with all Federal Communications Commission (FCC) CFR Title 47 requirements.

Note: The wireless radio modules mentioned below are preinstalled in your computer. If service or replacement is required, it can be completed by yourself or a Lenovo-authorized servicer, depending on whether the module is a customer replaceable unit (CRU) or not. See “CRU list” in the User Guide for more information.

You can find the FCC certification information through one of the following methods:

- On a physical label attached to the outside of your computer shipping carton
- On a physical label attached to your computer
- Through an electronic-label screen (E-label screen) preinstalled on your computer

To access the E-label screen, do one of the following:

- Restart the computer. When the logo screen is displayed, press F9. The E-label screen is displayed.
- Restart the computer. When the logo screen is displayed, press Enter or tap the prompt to enter the Startup Interrupt menu. Then press F9 or tap the Regulatory Information option. The E-label screen is displayed.

Refer to the FCC ID certification details below:

Type 1: For licence exempt wireless radio modules

- FCC ID: PD99560NG
 - Wireless LAN module with Bluetooth function (model: 9560NGW)
- FCC ID: PD9AX201D2
 - Wireless LAN module with Bluetooth function (model: AX201D2W)
- FCC ID: PD9AX211NG
 - Wireless LAN module with Bluetooth function (model: AX211NGW)
- FCC ID: PD9AX211D2
 - Wireless LAN module with Bluetooth function (model: AX211D2W)
- FCC ID: PD9AX201NG
 - Wireless LAN module with Bluetooth function (model: AX201NGW)
- FCC ID: A5M-QCNFA725
 - Wireless LAN module with Bluetooth function (model: QCNFA725)
- FCC ID: RAS-MT7921
 - Wireless LAN module with Bluetooth function (model: MT7921)
- FCC ID: RAS-MT7922A12L

- Wireless LAN module with Bluetooth function (model: MT7922A12L)
- FCC ID: RAS-MT7922A22M
 - Wireless LAN module with Bluetooth function (model: MT7922A22M)
- FCC ID: TX2-RTL8852BE
 - Wireless LAN module with Bluetooth function (model: RTL8852BE)
- FCC ID: TX2-RTL8822CE
 - Wireless LAN module with Bluetooth function (model: RTL8822CE)
- FCC ID: PD9BE200D2
 - Wireless LAN module with Bluetooth function (model: BE200D2W)
- FCC ID: MCLT77H747
 - NFC module (model: T77H747)
- FCC ID: 2AD9Q-X4C007
 - Human Presence Sensing module (model: X4C007)
- FCC ID: M9MR8XXEA
 - RFID module (model: R8XXEA-V3)

Type 2: For cellular radio models

Table 1. ThinkPad X1 Carbon Gen 12

Compliance ID	Integrated Wireless WAN module	FCC ID
TP00150A	RM520N-GL	XMR2023RM520NGLT
	EM160R-GL	XMR2020EM160RGL

Table 2. ThinkPad X1 2-in-1 Gen 9

Compliance ID	Integrated Wireless WAN module	FCC ID
TP00151A	RM520N-GL	XMR2023RM520NGLM
	EM160R-GL	XMR2020EM160RGL2

Table 3. ThinkPad X13 Gen 5

Compliance ID	Integrated Wireless WAN module	FCC ID
TP00145CU	FM350-GL	2AJN7-TP00145AU
TP00145CL	EM061K-GL	2AJN7-TP00145CL

Table 4. ThinkPad X13 2-in-1 Gen 5

Compliance ID	Integrated Wireless WAN module	FCC ID
TP00146BLQ	EM160R-GL	2AJN7-TP00146BLQ
TP00146BL	EM061K-GL	2AJN7-TP00146BL

Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

FCC RF exposure compliance

The radiated output power of your computer 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 computer.

CAUTION:

The total radiated energy from the antennas connected to the installed wireless modules 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.

To know the location of transmission antennas for the Wireless LAN/Bluetooth combo module and the wireless WAN module, see “Locate the UltraConnect™ wireless antennas” in the *User Guide*.

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.

Simultaneous use of RF transmitters

Your computer is approved for simultaneous use of the integrated wireless modules.

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 computer.
- 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 computer.

Radio Frequency interference requirements

When you use a wireless LAN module in the 802.11a/n/ac/ax 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 — Innovation, Science and Economic Development (ISED)

ISED certification number

Your computer contains the following wireless devices and the certification number is as below.

Type 1: For licence exempt wireless radio modules

- IC: 1000M-9560NG
 - Wireless LAN module with Bluetooth function (model: 9560NGW)
- 1000M-AX201D2
 - Wireless LAN module with Bluetooth function (model: AX201D2W)
- IC: 1000M-AX211NG
 - Wireless LAN module with Bluetooth function (model: AX211NGW)
- IC: 1000M-AX211D2

- Wireless LAN module with Bluetooth function (model: AX211D2W)
- IC: 1000M-AX201NG
 - Wireless LAN module with Bluetooth function (model: AX201NGW)
- IC: 5903G-QCNFA725
 - Wireless LAN module with Bluetooth function (model: QCNFA725)
- IC: 7542A-MT7921
 - Wireless LAN module with Bluetooth function (model: MT7921)
- IC: 7542A-MT7922A12L
 - Wireless LAN module with Bluetooth function (model: MT7922A12L)
- IC: 7542A-MT7922A22M
 - Wireless LAN module with Bluetooth function (model: MT7922A22M)
- IC: 6317A-RTL8852BE
 - Wireless LAN module with Bluetooth function (model: RTL8852BE)
- IC: 6317A-RTL8822CE
 - Wireless LAN module with Bluetooth function (model: RTL8822CE)
- IC: 1000M-BE200D2
 - Wireless LAN module with Bluetooth function (model: BE200D2W)
- IC: 2878D-T77H747
 - NFC module (model: T77H747)
- IC: 22782-X4C007
 - Human Presence Sensing module (model: X4C007)

Type 2: For cellular radio models

Table 5. ThinkPad X1 Carbon Gen 12

Compliance ID or M/N	Integrated Wireless WAN module	IC ID
TP00150A	RM520N-GL	10224A-022RM520NGL
TP00150A	EM160R-GL	10224A-2020EM160GL

Table 6. ThinkPad X1 2-in-1 Gen 9

Compliance ID or M/N	Integrated Wireless WAN module	IC ID
TP00151A	RM520N-GL	10224A-022RM520NGL
TP00151A	EM160R-GL	10224A-2020EM160GL

Table 7. ThinkPad X13 Gen 5

Compliance ID or M/N	Integrated Wireless WAN module	IC ID
TP00145CU	FM350-GL	21863-TP00145AU
TP00145CL	EM061K-GL	21863-TP00145CL

Table 8. ThinkPad X13 2-in-1 Gen 5

Compliance ID or M/N	Integrated Wireless WAN module	IC ID
TP00146BLQ	EM160R-GL	21863-TP00146BLQ
TP00146BL	EM061K-GL	21863-TP00146BL

You can find the IC certification information through one of the following methods:

- On a physical label attached to the outside of your computer shipping carton
- On a physical label attached to your computer
- Through an electronic-label screen (E-label screen) preinstalled on your computer

To access the E-label screen, do one of the following:

- Restart the computer. When the logo screen is displayed, press F9. The E-label screen is displayed.
- Restart the computer. When the logo screen is displayed, press Enter or tap the prompt to enter the Startup Interrupt menu. Then press F9 or tap the Regulatory Information option. The E-label screen is displayed.

Depending on your product configuration, this device may contain license-exempt wireless radio modules, and also WWAN cellular radio modules, that are compliant with Innovation, Science and Economic Development Canada's Radio Standards Specifications (RSS) requirements.

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.

Note that the license-exempt wireless radio modules mentioned above are factory preinstalled, and are not removable or serviceable by the customer. If service or replacement is required, it must be completed by a Lenovo authorized servicer. In addition, it is prohibited to replace them with any other wireless features.

When you use a wireless LAN/Bluetooth combo module in the 802.11a/n/ac/ax transmission mode, note that 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.

Devices operating in the 5925–7125 MHz band shall not be used for control of or communications with unmanned aircraft systems.

Exposure of humans to RF fields (RSS-102)

The computer employs 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 ISSED RSS-102 Issue 5, Section 4 set forth for an uncontrolled environment, and are safe for intended operation in the conventional setting. 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.

Refer to “Locate the UltraConnect™ wireless antennas” in *User Guide* for the antenna location.

Numéro de certification ISDE

Votre ordinateur contient les périphériques sans fil suivants et le numéro de certification indiqué ci-dessous.

Type 1: Pour modules de radiocommunication sans fil exempts de licence

- IC: 1000M-9560NG
 - Carte combinée sans fil LAN/Bluetooth (modèle : 9560NGW)
- IC: 1000M-AX201D2
 - Carte combinée sans fil LAN/Bluetooth (modèle : AX201D2W)
- IC: 1000M-AX211NG
 - Carte combinée sans fil LAN/Bluetooth (modèle : AX211NGW)
- IC: 1000M-AX211D2
 - Carte combinée sans fil LAN/Bluetooth (modèle : AX211D2W)
- IC: 1000M-AX201NG
 - Carte combinée sans fil LAN/Bluetooth (modèle : AX201NGW)
- IC: 5903G-QCNFA725
 - Carte combinée sans fil LAN/Bluetooth (modèle : QCNFA725)
- IC: 7542A-MT7921
 - Carte combinée sans fil LAN/Bluetooth (modèle : MT7921)
- IC: 7542A-MT7922A12L
 - Carte combinée sans fil LAN/Bluetooth (modèle : MT7922A12L)
- IC: 542A-MT7922A22M
 - Carte combinée sans fil LAN/Bluetooth (modèle : MT7922A22M)
- IC: 6317A-RTL8852BE
 - Carte combinée sans fil LAN/Bluetooth (modèle : RTL8852BE)
- IC: 6317A-RTL8822CE
 - Carte combinée sans fil LAN/Bluetooth (modèle : RTL8822CE)
- IC: 1000M-BE200D2
 - Carte combinée sans fil LAN/Bluetooth (modèle : BE200D2W)
- IC: 2878D-T77H747
 - Module NFC (modèle : T77H747)
- 22782-X4C007
 - Module Human Presence Sensing (modèle: X4C007)

Type 2: Pour modèles de radiocommunication cellulaires

Table 9. ThinkPad X1 Carbon Gen 12

ID de conformité ou M/N	Module WAN sans fil intégré	IC ID
TP00150A	RM520N-GL	10224A-022RM520NGL
TP00150A	EM160R-GL	10224A-2020EM160GL

Table 10. ThinkPad X1 2-in-1 Gen 9

ID de conformité ou M/N	Module WAN sans fil intégré	IC ID
TP00151A	RM520N-GL	10224A-022RM520NGL
TP00151A	EM160R-GL	10224A-2020EM160GL

Table 11. ThinkPad X13 Gen 5

ID de conformité ou M/N	Module WAN sans fil intégré	IC ID
TP00145CU	FM350-GL	21863-TP00145AU
TP00145CL	EM061K-GL	21863-TP00145CL

Table 12. ThinkPad X13 2-in-1 Gen 5

ID de conformité ou M/N	Module WAN sans fil intégré	IC ID
TP00146BLQ	EM160R-GL	21863-TP00146BLQ
TP00146BL	EM061K-GL	21863-TP00146BL

Vous trouverez les informations relatives aux numéros de certification IC via l'une des méthodes suivantes:

- Sur une étiquette physique apposée à l'extérieur du carton d'emballage de l'ordinateur
- Sur une étiquette physique apposée à votre ordinateur
- Via un écran d'étiquette électronique (écran de l'E-label) préinstallé sur votre ordinateur

Pour accéder à l'écran de l'E-label, procédez comme suit:

- Redémarrez l'ordinateur. Lorsque l'écran d'accueil du logiciel s'affiche, appuyez sur la touche F9. L'écran de l'E-label s'affiche.
- Redémarrez l'ordinateur. Lorsque le logo s'affiche, appuyez sur Entrée ou touchez l'invite pour entrer dans le menu Startup Interrupt. Appuyez sur F9 ou touchez l'option Informations réglementaires. L'écran de l'E-label s'affiche.

En fonction de la configuration de votre produit, il se peut que ce périphérique présente des modules de radiocommunication sans fil exempts de licence, mais aussi des modules de radiocommunication cellulaires WWAN, qui sont conformes aux exigences du Cahier des charges sur les normes radioélectriques (CNR) d'Innovation, Sciences et Développement économique Canada.

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

Veuillez noter que les modules de radiocommunication sans fil exempts de licence mentionnés ci-dessus sont préinstallés en usine. Ils ne peuvent pas être retirés ou réparés par le client. S'il est nécessaire de procéder à une réparation ou à un remplacement, cela doit être réalisé par un prestataire de services agréé par Lenovo. En outre, il est interdit de les remplacer par une autre fonction sans fil.

Lorsque vous utilisez un module de réseau local sans fil/Bluetooth dans le mode de transmission 802.11a/n/ac/ax, 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 appareils fonctionnant dans la bande de 5 925 à 7 125 MHz ne doivent pas être utilisés pour commander ou communiquer avec des drones.

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 Web 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 l'ISDE 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.

Reportez-vous à la section « Localisation des antennes sans fil UltraConnect™ » du Guide d'utilisation pour connaître l'emplacement des antennes.

Electromagnetic emission notices

Refer to your product *User Guide* for information regarding the FCC compliance statement and other compliance statements.

Usage environment and your health

The wireless device installed in the computer operates 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 representatives 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 to the use of wireless devices in a specific area (such as an airport or hospital), you are encouraged to ask for authorization to use a wireless device prior to turning on the computer.

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

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

Chapter 2. Notice for users in Japan

内蔵無線アダプターを日本国内でご使用になる際の注意

日本国内でご使用になる際の注意

本製品が装備する無線アダプターは、電波法および電気通信事業法により技術基準認証を下記のとおり取得しています。本製品に組み込まれた無線設備を他の機器で使用する場合は、当該機器が上記と同じく認証を受けていることをご確認ください。認証されていない機器での使用は、電波法の規定により認められていません。

Table 13. 無線LAN / Bluetooth アダプターが搭載されているモデル

認証番号	認証製品名	認証申請者名
  003-170126  D170080003	9560NGW	Intel Mobile Communications S.A.S.
  003-180233  D180132003	AX201D2W	Intel Mobile Communications S.A.S.
  003-210035  D210019003	AX211NGW	Intel Mobile Communications S.A.S.
  003-210037  D210021003	AX211D2W	Intel Mobile Communications S.A.S.
  003-180232  D180131003	AX201NGW	Intel Mobile Communications S.A.S.
  003-210218  D210155003	QCNFA725	Qualcomm Technologies, Inc.
  020-200147  D200054020	MT7921	MediaTek Inc.
  020-210144  D210063020	MT7922A12L	MediaTek Inc.
  020-210086  D210041020	MT7922A22M	MediaTek Inc.

Table 13. 無線LAN / Bluetooth アダプターが搭載されているモデル (continued)

認証番号	認証製品名	認証申請者名
  201-180775  D180171201	RTL8822CE	Realtek Semiconductor Corp.
  201-210496  D210109201	RTL8852BE	Realtek Semiconductor Corp.
  201-200398	L06E	Lenovo (Beijing) Limited
  201-200400	L06D	

Table 14. Wi-Fi 6E対応無線LAN/Bluetoothアダプターが搭載されているモデル

認証番号	認証製品名	認証申請者名
  003-220256  D220165003	AX211NGW	Intel Mobile Communications S.A.S.
  003-220257  D220166003	AX211D2W	Intel Mobile Communications S.A.S.
  003-220109  D220065003	QCNFA725	Qualcomm Technologies, Inc.
  020-220195  D220056020	MT7922A12L	MediaTek Inc.
  020-220194  D220055020	MT7922A22M	MediaTek Inc.
  003-230204  D230106003	BE200D2W	Intel Mobile Communications S.A.S.

(5GHz / 6GHz の場合)

5GHz帯(W52/53)及び6GHz帯(LPI)は屋内使用限定 (登録局との通信を除く)

(2.4 GHz の場合)

この機器の使用周波数帯では、電子レンジ等の産業・科学・医療用機器のほか工場の製造ライン等で使用されている移動体識別用の構内無線局 (免許を要する無線局) および特定小電力無線局 (免許を要しない無線局) 並びにアマチュア無線局 (免許を要する無線局) が運用されています。

1. この機器を使用する前に、近くで移動体識別用の構内無線局及び特定小電力無線局並びにアマチュア無線局が運用されていないことを確認してください。
2. 万一、この機器から移動体識別用の構内無線局に対して電波干渉の事例が発生した場合には、速やかに使用周波数を変更するかまたは電波の発射を停止した上で、下記連絡先にご連絡頂き、混信回避のための処置等についてご相談ください。
3. その他、この機器からの移動体識別用の特定小電力無線局あるいはアマチュア無線局に対して有害な電波干渉の事例が発生した場合など何かお困りのことが起きたときには、次の連絡先にお問い合わせください。

連絡先: スマートセンター (スマートセンターのご利用方法は、次のホームページでご確認頂けます。 <https://www.lenovo.com/jp/lsmartctr>)



Bluetooth アダプターの場合

この機器が、2.4 GHz 周波数帯 (2400 から 2483.5 MHz) を使用する周波数ホッピング (FH) 方式の無線装置で、干渉距離が約 80 mであることを意味します。

無線 LAN 製品ご使用時におけるセキュリティに関するご注意

無線 LAN では、LAN ケーブルを使用する代わりに、電波を利用してパソコン等と無線アクセスポイント間で情報のやり取りを行うため、電波の届く範囲であれば自由に LAN 接続が可能であるという利点があります。その反面、電波はある範囲内であれば障害物 (壁等) を越えてすべての場所に届くため、セキュリティに関する設定を行っていない場合、以下のような問題が発生する可能性があります。

- 通信内容を盗み見られる 悪意ある第三者が、電波を故意に傍受し、
 - ID やパスワード又はクレジットカード番号等の個人情報
 - メールの内容等の通信内容を盗み見られる可能性があります。
- 不正に侵入される 悪意ある第三者が、無断で個人や会社内のネットワークへアクセスし、
 - 個人情報や機密情報を取り出す (情報漏洩)
 - 特定の人物になりすまして通信し、不正な情報を流す (なりすまし)
 - 傍受した通信内容を書き換えて発信する (改ざん)
 - コンピュータウイルスなどを流しデータやシステムを破壊する (破壊)などの行為をされてしまう可能性があります。

本来、無線 LAN カードや無線アクセスポイントは、これらの問題に対応するためのセキュリティの仕組みを持っていますので、無線 LAN 製品のセキュリティに関する設定を行って製品を使用することで、その問題が発生する可能性は少なくなります。

セキュリティの設定を行わないで使用した場合の問題を充分理解した上で、お客様自身の判断と責任においてセキュリティに関する設定を行い、製品を使用することをお奨めします。

使用環境および快適に使用するために

無線 LAN/Bluetooth アダプターは、ほかの無線装置のように無線周波数電磁波を発します。しかしながら、これらの無線装置が発する電磁波が人体へ与える影響は、頭部等へ直接接触して使用される携帯電話などの機器とは異なり、とても弱いレベルのものです。

無線LAN/Bluetoothアダプターは、無線周波数に関する安全基準や勧告などのガイドラインに従って動作するもので、Lenovoは、消費者が内蔵ワイヤレス・カードを使用しても安全であると考えます。これらの標準および勧告は、科学者団体の合意や広範な研究文献を頻繁に検討、調査している科学者のパネルや委員会の審議の結果を反映しています。

状況や環境によって、建物の所有者や組織の代表責任者が無線LAN/Bluetoothアダプターの使用を制限することがあります。たとえば、次のような場合や場所です。

- 飛行機の搭乗中、病院内、あるいはガソリンスタンド、(電気式発火装置のある) 爆発の危険のある場所、医療用インプラント、またはペースメーカーなどの装着式医療用電子機器の近くで、内蔵ワイヤレス・カードを使用すること。
- 他の装置や機能に対して有害と認識または確認されている妨害を起こす危険性がある場合。

特定の場所で (たとえば空港や病院など) ワイヤレス・デバイスの使用が許可されているかどうかはわからない場合は、ThinkPad の電源を入れる前に無線LAN/Bluetoothアダプターを使用してもよいかどうかをお尋ねください。

日本国内で無線WAN 設備をご使用になる場合の注意

本製品は、電波法および電気通信事業法により技術基準認証を下記のとおり取得しています。本製品に組み込まれた無線設備を他の機器で使用する場合は、当該機器が上記と同じく認証を受けていることをご確認ください。認証されていない機器での使用は、電波法の規定により認められていません。

Table 15. 無線 WAN 設備

モデル	認証番号	認証製品名	認証申請者名
EM160R-GL 搭載モデル	 R003-200141	TP00150A / TP00151A	LC Future Center Limited Taiwan Branch
	 T D200118003	EM160R-GL	Quectel Wireless Solutions Co., Ltd.
RM520N-GL 搭載モデル	 R003-220203	TP00150A / TP00151A	LC Future Center Limited Taiwan Branch
	 T D220138003	RM520N-GL	Quectel Wireless Solutions Co., Ltd.

無線通信機能(モジュールを含む)を持つパーソナルコンピュータの比吸収率 (Body SAR) について

以下の機種は、Body SAR の対象となる無線通信機 (モジュールを含む) *1を搭載しており、国が定めた電波の人体吸収に関する技術基準および電波防護の国際ガイドラインに適合しています。対象モジュールを搭載しているパーソナルコンピュータは、国が定めた電波の人体吸収に関する技術基準*2ならびに、これと同等な国際ガイドラインが推奨する電波防護の許容値を遵守するように設計されています。この国際ガイドラインは世界保健機関 (WHO) が支持するガイドラインと同等のものとなっており、その許容値は使用者の年齢や健康状況に関係なく十分な安全率 (約 50 倍の安全率) となっています。国の法律および国際ガイドラインは電波防護の許容値を人体に吸収される電波の平均エネルギー量を表す比吸収率 (SAR : Specific Absorption Rate) で定めており、対象モジュールを搭載しているパーソナルコンピュータに対する局所 SAR の許容値は 2.0W/kg (手首から先を除く手足は 4W/Kg) です。

本書に記載されている製品の Body SAR の値は にある通次の表で説明されており、許容値を満足しています。

製品	認証製品名	搭載モデル	Body SAR値 / W/kg
ThinkPad X1 Carbon Gen 12	TP00150A	RM520N-GL	XXX
		EM160R-GL	XXX
ThinkPad X1 2-in-1 Gen 9	TP00151A	RM520N-GL	XXX
		EM160R-GL	XXX

本製品を体の近くで使用するには、人体から 2 mm の距離間隔を維持します。

ThinkPad T14s Gen 4 の場合: 本製品を体の近くで使用するには、人体から「LCD の前面および背面および上部から 10 mm」の距離間隔を維持します。これにより、本製品が「電波保護に関する国際 ガイドライン」および「日本の電波法」を確実に満たすことができます。

Body SAR について、さらに詳しい情報をお知りになりたい方は、下記のホームページをご参照ください。

総務省 電波利用ホームページ

<https://www.tele.soumu.go.jp/>

<https://www.tele.soumu.go.jp/j/sys/ele/pr/>

注*1 2014 年 4 月 1 日現在、対象となる無線通信機 (モジュールを含む) は、携帯電話、衛星携帯電話および WiMAX。

注*2 技術基準については、電波法関連省令 (無線設備規則第 14 条の 2) で規定されています。

Chapter 3. European Union (EU) / United Kingdom (UK) Compliance

UK declaration of conformity



Hereby, Lenovo declares that the wireless equipment listed in this document is in compliance with the UK Radio Equipment Regulations SI 2017 No. 1206.

The full text of the system UK declaration of conformity is available at: <https://www.lenovo.com/us/en/compliance/uk-doc>.

EU declaration of conformity



Hereby, Lenovo declares that the wireless equipment listed in this document is in compliance with the EU Radio Equipment Directive 2014/53/EU.

The full text of the system EU Declaration of Conformity is available at <https://www.lenovo.com/us/en/compliance/eu-doc>.

Bulgarian

С настоящото Lenovo (Singapore) Pte. Ltd. декларира, че безжичното оборудване, споменато в този раздел, съответства на Директивата за радиооборудване 2014/53/ЕС.

Пълният текст на декларацията за съответствие с ЕС относно системата е наличен на следния адрес в интернет:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Croatian

Lenovo (Singapore) Pte. Ltd. ovime izjavljuje da je bežična oprema navedena u ovom dokumentu usklađena s Direktivom o radijskoj opremi 2014/53/EU.

Potpuni tekst deklaracije EU-a o sukladnosti sustava dostupan je na sljedećoj internetskoj adresi:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Czech

Společnost Lenovo (Singapore) Pte. Ltd. tímto prohlašuje, že bezdrátová zařízení uvedená v tomto dokumentu splňují základní i další relevantní požadavky směrnice o rádiových zařízeních 2014/53/EU.

Úplné znění EU prohlášení o shodě systému je dostupné na následujících internetových adresách:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Danish

Lenovo (Singapore) Pte. Ltd. erklærer hermed, at det trådløse udstyr, der er angivet i dette dokument, overholder direktivet om radioudstyr 2014/53/EU.

Hele teksten til EU's overensstemmelseserklæring findes på følgende internetadresser:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Dutch

Hierbij verklaart Lenovo (Singapore) Pte. Ltd. dat de draadloze apparatuur die in dit artikel is aangegeven voldoet aan de richtlijn 2014/53/EU voor radioapparatuur.

De volledige tekst van de EU-verklaring van conformiteit van het systeem is beschikbaar op de volgende internetpagina:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Estonian

Siinkohal kinnitab ettevõtte Lenovo (Singapore) Pte. Ltd., et käesolevas dokumendis kirjeldatud juhtmeta seadmed on kooskõlas raadioseadmete direktiiviga 2014/53/EL.

Süsteemi ELi vastavusdeklaratsiooni täielik tekst on saadaval järgmisel Interneti-aadressil:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Finnish

Lenovo (Singapore) Pte. Ltd. ilmoittaa täten, että tässä asiakirjassa mainittu langaton laite on radiolaitedirektiivin 2014/53/EU mukainen.

Lausuma järjestelmän EU-säännöstenmukaisuudesta on saatavilla kokonaisuudessaan seuraavassa Internet-osoitteessa:

<https://www.lenovo.com/us/en/compliance/eu-doc>

French

Par la présente, Lenovo (Singapore) Pte. Ltd., déclare que les équipements sans fil listés dans ce document sont conformes à la directive 2014/53/EU sur les équipements radio.

Le texte complet de la déclaration de l'UE de conformité du système est disponible à l'adresse suivante:

<https://www.lenovo.com/us/en/compliance/eu-doc>

German

Hiermit erklärt Lenovo (Singapore) Pte. Ltd., dass das in diesem Dokument aufgelistete drahtlose Gerät die Funkanlagen-Richtlinie 2014/53/EU erfüllt.

Die vollständige EU-Konformitätserklärung für das System finden Sie unter der folgenden Internetadresse:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Greek

Με την παρούσα, η Lenovo (Singapore) Pte. Ltd., δηλώνει ότι ο ασύρματος εξοπλισμός που αναφέρεται στο παρόν έγγραφο συμμορφώνεται με την Οδηγία περί Ραδιοεξοπλισμού 2014/53/ΕΕ.

Το πλήρες κείμενο της δήλωσης συμμόρφωσης της ΕΕ για το σύστημα διατίθεται στην εξής διεύθυνση στο Internet:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Hungarian

A Lenovo (Singapore) Pte. Ltd. kijelenti, hogy a jelen dokumentumban említett vezeték nélküli készülék megfelel a 2014/53/EU számú, rádióberendezésekről szóló direktívában foglaltaknak.

A rendszer EU-s megfelelőségi nyilatkozatának teljes szövege a következő webhelyen tekinthető meg:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Italian

Con la presente documentazione, Lenovo (Singapore) Pte. Ltd. dichiara che l'apparecchiatura wireless indicata in questo documento è conforme alla direttiva 2014/53/EU sulle apparecchiature radio.

Il testo integrale della dichiarazione di conformità dei sistemi dell'UE è disponibile al seguente indirizzo Internet:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Latvian

Ar šo uzņēmums Lenovo (Singapore) Pte. Ltd. paziņo, ka šajā dokumentā norādītais bezvadu aprīkojums atbilst radioiekārtu Direktīvai 2014/53/EK.

Pilns ES atbilstības deklarācijas teksts ir pieejams šajā interneta adresē:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Lithuanian

„Lenovo (Singapore) Pte. Ltd.“ pareiškia, kad belaidė įranga, nurodyta šiame dokumente, atitinka Radijo įrangos direktyvos 2014/53/ES reikalavimus.

Visą sistemos ES atitikties deklaracijos tekstą galite rasti šiuo internetiniu adresu:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Norwegian

Lenovo (Singapore) Pte. Ltd. erklærer herved at det trådløse utstyret som er oppført i dette kapittelet, er i samsvar med direktiv 2014/53/EU om radioutstyr.

Hele teksten til EUs samsvarserklæring finner du på følgende Internett-adresse:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Polish

Lenovo (Singapore) Pte. Ltd., niniejszym oświadcza, że urządzenia bezprzewodowe wymienione w tym dokumencie spełniają wymagania dyrektywy w sprawie sprzętu radiowego 2014/53/UE.

Pełna treść deklaracji zgodności systemu jest dostępna na następującej stronie internetowej:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Portuguese

A Lenovo (Singapore) Pte. Ltd., declara por este meio que o equipamento sem fios listado neste documento está em conformidade com a Diretiva de Equipamento de Rádio 2014/53/UE.

O texto integral da declaração de conformidade da UE do sistema está disponível no seguinte endereço na Internet:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Romanian

Prin prezenta, Lenovo (Singapore) Pte. Ltd., declară că echipamentul fără fir prezentat în acest document este în conformitate cu Directiva privitoare la echipamentele radio 2014/53/EU.

Textul complet al declarației de conformitate UE a sistemului este disponibil la următoarele adrese:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Slovakian

Spoločnosť Lenovo (Singapore) Pte. Ltd. týmto vyhlasuje, že bezdrôtové zariadenie uvedené v tomto dokumente je v súlade so smernicou o rádiových zariadeniach 2014/53/EÚ.

Úplné znenie systémového vyhlásenia EÚ o zhode je k dispozícii na týchto internetových adresách:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Slovenian

Lenovo (Singapore) Pte. Ltd. s tem izjavlja, da je brezžična oprema, navedena v tem dokumentu, skladna z direktivo o radijski opremi 2014/53/EU.

Celotno besedilo izjav EU o skladnosti je na voljo na tem internetnem naslovu:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Spanish

Mediante el presente documento, Lenovo (Singapore) Pte. Ltd., declara que el equipo inalámbrico indicado en este documento cumple con la Directiva de Equipos de Radio 2014/53/UE.

El texto completo de la declaración de conformidad del sistema de la UE está disponible en la siguiente dirección de Internet:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Swedish

Härmed intygar Lenovo (Singapore) Pte. Ltd. att den trådlösa utrustningen i detta dokument överensstämmer med direktivet för radioutrustning 2014/53/EU.

Den fullständiga texten i EU:s deklaration om överensstämmelse finns tillgänglig på:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Turkish

Lenovo (Singapore) Pte. Ltd., bu belgede listelenen kablosuz cihazların temel gereksinimler ve Radyo Ekipmanları Yönetmeliği 2014/53/EC ile uyumlu olduğunu beyan eder.

Sistem AB uyumluluk bildiriminin tam metni şu İnternet adresinde sunulmaktadır:

<https://www.lenovo.com/us/en/compliance/eu-doc>

Chapter 4. Notice for users in other countries/regions

This chapter provides wireless information about the following countries and regions.

Notice for users in Brazil (Aviso para usuarios no Brasil)

Table 16. Wireless WAN module

Model	ANATEL ID	Model	ANATEL ID
L860-GL-16	 Agência Nacional de Telecomunicações 14816-21-09038	EM05-G	 Agência Nacional de Telecomunicações 08197-21-07968
FM101-GL	 Agência Nacional de Telecomunicações 11721-22-09038	RM520N-GL	 Agência Nacional de Telecomunicações 15778-22-07968
EM160R-GL	 Agência Nacional de Telecomunicações 12144-20-07968		

Table 17. Wireless LAN modules

Model	ANATEL ID	Model	ANATEL ID
RTL8822CE	 Agência Nacional de Telecomunicações 00158-19-04076	RTL8852BE	 Agência Nacional de Telecomunicações 14751-21-04076
9560NGW	 Agência Nacional de Telecomunicações 05788-17-04423	QCNFA725	 Agência Nacional de Telecomunicações 13700-21-02245
MT7921	 Agência Nacional de Telecomunicações 14545-20-08766	MT7922A12L	 Agência Nacional de Telecomunicações 16195-21-08766

Table 17. Wireless LAN modules (continued)

Model	ANATEL ID	Model	ANATEL ID
MT7922A22M	 Agência Nacional de Telecomunicações 09629-21-08766	AX201NGW	 Agência Nacional de Telecomunicações 06970-18-04423
AX201D2W	 Agência Nacional de Telecomunicações 07039-18-04423	AX211NGW	 Agência Nacional de Telecomunicações 12069-21-04423
AX211D2W	 Agência Nacional de Telecomunicações 12073-21-04423		
BE200D2W	XXX		

Table 18. NFC / UWB module

Model	ANATEL ID	Model	ANATEL ID
T77H747	 Agência Nacional de Telecomunicações 04295-16-01802	X4C007	 Agência Nacional de Telecomunicações 04461-20-12935

- Portuguese: Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.
- English: This equipment is not protected against harmful interference and may not cause interference with duly authorized systems.

For model: ThinkPad X1 Fold 16 Gen 1 (TP00144A)

ANATEL 14979-22-06667

- Portuguese:
 - Este produto está homologado pela Anatel de acordo com os procedimentos regulamentados para avaliação da conformidade de produtos para telecomunicações e atende aos requisitos técnicos aplicados, incluindo os limites de exposição da Taxa de Absorção Específica referente a campos elétricos, magnéticos e eletromagnéticos de radiofrequência.
 - WLAN SKU: Valor máximo medido da Taxa de Absorção Específica: 0,40 W/kg
 - O produto deverá ser utilizado a uma distância de 0 cm do corpo.
- English:
 - This product is approved by Anatel in accordance with the regulatory procedures for conformity assessment of telecommunications products and meets the technical requirements applied, including exposure limits of the Specific Absorption Rate for electric, magnetic and electromagnetic fields of radio frequency.

- WLAN SKU: Maximum measured value of Specific Absorption Rate: 0.40 W/kg
- The product should be used at a distance of 0 cm from the body.

Notice for users in Mexico (Nota para uso en Mexico)

Note: Para información adicional por favor buscar el número de el certificado inalámbrico de IFT en el cartón de empaque. Por favor mandar un e-mail a compliance@lenovo.com si los numeros de IFT no estan presente en este documento.

Advertencia:

En Mexico la operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada

Notice for users in Morocco

Notice for users in Morocco

All products in this manual are approved for Morocco by ANRT.

In addition, the following wireless modules used in this product are all approved for Morocco by ANRT: RTL8822CE, RTL8852BE, QCNFA725, MT7921, MT7922A12L, MT7922A22M, AX201NGW, AX201D2W, AX211NGW, AX211D2W, 9560NGW, T77H747, L860-GL-16, FM101-GL and EM05-G.

Note: The operation of this product in the radio channel 2 (2417 MHz) is not authorized in the following cities: Agadir, Assa-Zag, Cabo Negro, Chaouen, Goulmima, Oujda, Tan Tan, Taourirt, Taroudant, and Taza.

The operation of this product in the radio channels 4, 5, 6 and 7 (2425 - 2442 MHz) is not authorized in the following cities: Aéroport Mohamed V, Agadir, Aguelmous, Anza, Benslimane, Béni Hafida, Cabo Negro, Casablanca, Fès, Lakbab, Marrakech, Merchich, Mohammédia, Rabat, Salé, Tanger, Tan Tan, Taounate, Tit Mellil, and Zag.

Due to the channel restrictions above, the operation of this product using the fat channel mode (40 MHz of channel bandwidth) is not allowed at the 2.4 GHz frequency band.

Notice for users in Nigeria

For model: RTL8822CE, RTL8852BE, QCNFA725, MT7921, MT7922A12L, MT7922A22M, AX201NGW, AX201D2W, AX211NGW, AX211D2W, 9560NGW, L860-GL-16, EM05-G, FM101-GL, T77H747

Connection and use of this
communications equipment
is permitted by the Nigerian
Communications Commission

Notice for users in Pakistan

For model: 9560NGW

Approved by PTA: 9.80/2020

For model: AX201D2W

Approved by PTA: 9.9115/2019

For model: AX211NGW

Approved by PTA: 9.308/2021

For model: AX211D2W

Approved by PTA: 9.309/2021

For model: AX201NGW

Approved by PTA: 9.9116/2019

For model: QCNFA725

Approved by PTA: 9.881/2021

For model: MT7921

Approved by PTA: 9.849/2021

For model: MT7922A12L

Approved by PTA: 9.750/2021

For model: MT7922A22M

Approved by PTA: 9.618/2021

For model: RTL8852BE

Approved by PTA: 9.886/2021

For model: RTL8822CE

Approved by PTA: 9.5062/2018

For model: BE200D2W

Approved by PTA: XXX

For model: L860-GL-16

Approved by PTA: 9.456/2021

For model: EM05-G

Approved by PTA: 9.749/2021

For model: FM101-GL

Approved by PTA: 9.649/2022

For model: RM520N-GL

Approved by PTA: 9.491/2023

For model: EM160R-GL

Approved by PTA: 9.84/2021

Notice for users in Taiwan

For models: BE200D2W, RTL8822CE, RTL8852BE, QCNFA725, MT7921, MT7922A12L, MT7922A22M, AX201NGW, AX201D2W, AX211NGW, AX211D2W, 9560NGW, L06D, L06E, T77H747 and X4C007

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For models: RM520N-GL, EM160R-GL, FM350-GL, L860-GL-16, FM101-GL, and EM05-G

電磁波警語「減少電磁波影響 請妥適使用」

- 平臺型號:TP00150A

- 內置模塊: RM520N-GL

- XXX

- 「電波功率密度MPE標準值：XXX mW/cm²，送測產品實測值：XXX mW/cm²，建議使用時設備天線至少距離人體 XXX 公分。」

- 內置模塊: EM160R-GL

- XXX

- 「電波功率密度MPE標準值：XXX mW/cm²，送測產品實測值：XXX mW/cm²，建議使用時設備天線至少距離人體 XXX 公分。」

- 平臺型號:TP00151A

- 內置模塊: RM520N-GL

- XXX

- 「電波功率密度MPE標準值：XXX mW/cm²，送測產品實測值：XXX mW/cm²，建議使用時設備天線至少距離人體 XXX 公分。」

- 內置模塊: EM160R-GL

- XXX

- 「電波功率密度MPE標準值：XXX mW/cm²，送測產品實測值：XXX mW/cm²，建議使用時設備天線至少距離人體 XXX 公分。」

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