FAST Networking Solution
FAST · EASY · STABLE

RT-N53
Dual-band Wireless-N Router

Quick Start Guide

ASUS®
Inspiring Innovation • Persistent Perfection

E6780 / First Edition / July 2011

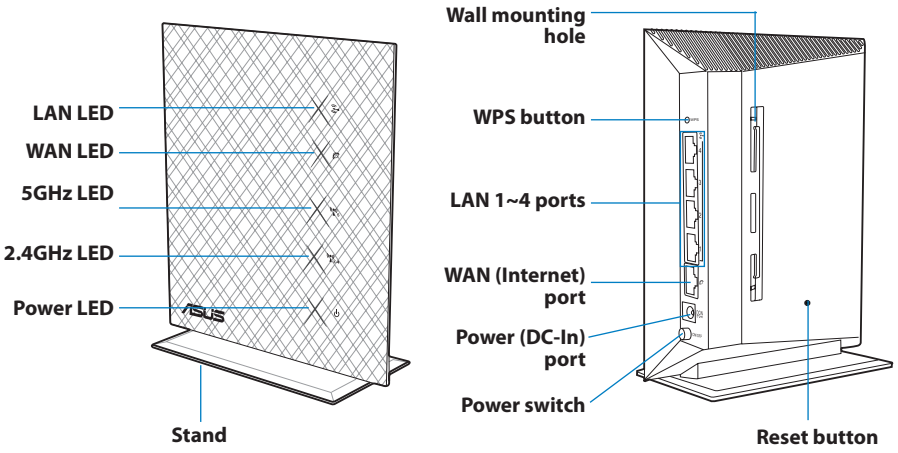
Package contents

- ☑ RT-N53 Wireless Router
- ☑ Power adapter
- ☑ Support CD (User Manual/utility software)
- ☑ Network cable
- ☑ Quick Start Guide
- ☑ Warranty card

NOTES:

- If any of the items is damaged or missing, contact ASUS for technical inquiries and support. Refer to the ASUS Support Hotline list at the back of this guide.
- Keep the original packaging material in case you would need future warranty services such as repair or replacement.

Hardware features



Positioning your wireless router

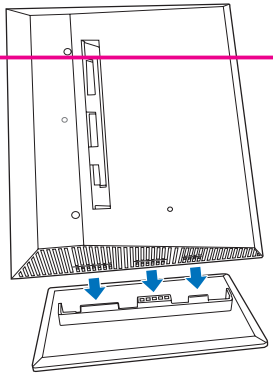
For the best wireless signal transmission between the wireless router and the network devices connected to it, ensure that you:

- Place the wireless router in a centralized area for a maximum wireless coverage for the network devices.
- Keep the device away from metal obstructions and away from direct sunlight.
- Keep the device away from 802.11g or 20MHz only Wi-Fi devices, 2.4GHz computer peripherals, Bluetooth devices, cordless phones, transformers, heavy-duty motors, fluorescent lights, microwave ovens, refrigerators, and other industrial equipment to prevent signal interference or loss.
- For the best front-to-rear coverage, place the wireless router in an upright position.
- For the best up-and-down coverage, place the wireless router in an inclined position.
- Always update to the latest firmware. Visit the ASUS website at **http://www.asus.com** to get the latest firmware updates.

Mounting options

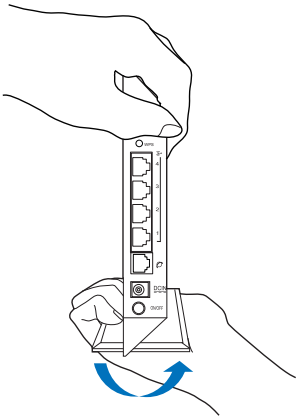
Mounting to the stand

1. Locate the mounting holes at the bottom of the wireless router.
2. Align and insert the stand's mounting hooks to the wireless router's mounting holes.



Dismount from the stand

1. Hold the wireless router with one hand on the upside and the other hand under the stand, ensuring that the I/O ports facing you.
2. Follow the direction of the arrow shown below to apply force and remove the stand.

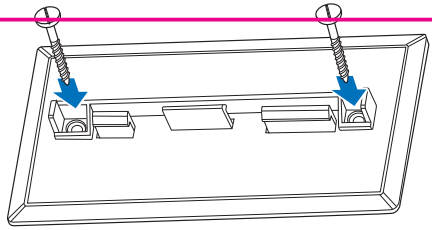


NOTE:

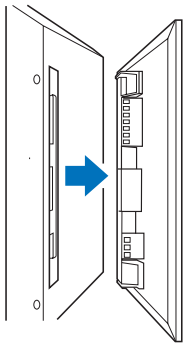
It's normal if you hear squeaking while dismounting the RT-N53 from the stand.

Mounting on the wall

1. Locate the two holes on the stand and secure the stand to the wall with screws.

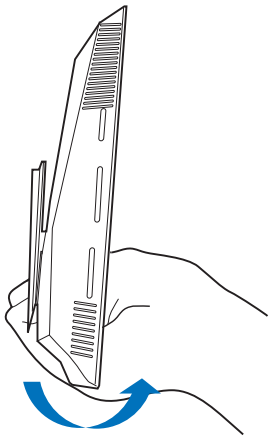


2. Locate the mounting holes at the back of the wireless router.
3. Align and insert the stand's mounting hooks to the wireless router's mounting holes.

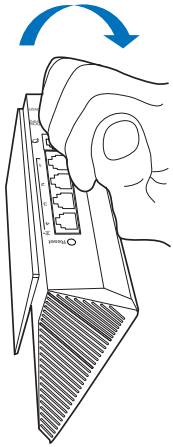


Dismount from the wall

1. Hold the edge of the front cover (near the I/O ports).
2. Follow the direction of the arrow shown below to apply force and dismount the RT-N53.

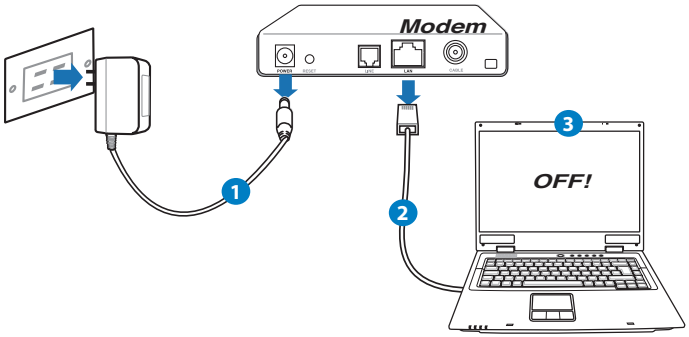


or



Before you proceed

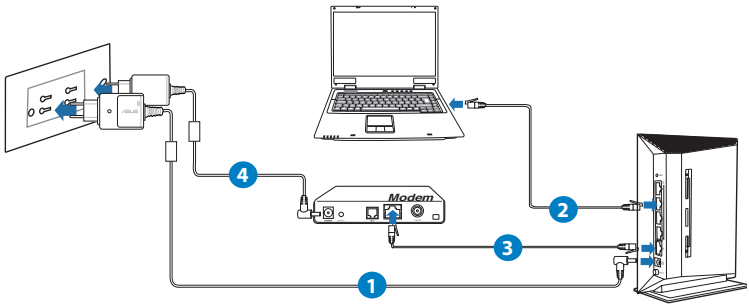
1. Unplug and disconnect the wires/cables from your existing modem setup and release your computer's outmoded IP address.



1. Unplug the AC adapter from the power outlet and disconnect it from your cable/ADSL modem.
2. Disconnect the network cable from your cable/ADSL modem.
3. Reboot your computer (recommended).

WARNING! Before disconnecting the wires/cables, ensure that your cable/ADSL modem has been turned off for at least two minutes. If your modem has a backup battery, remove it as well.

2. Set up your wireless environment.



1. Insert your wireless router's AC adapter to the DC-In port and plug it to a power outlet.
2. Using the bundled network cable, connect your computer to your wireless router's LAN port.

IMPORTANT! Ensure that the WAN and LAN LEDs are blinking.

3. Using another network cable, connect your modem to your wireless router's WAN port.
4. Insert your modem's AC adapter to the DC-In port and plug it to a power outlet.

3. Disable some settings on your computer.

A. Disable the proxy server, if enabled.

B. Set the TCP/IP settings to automatically obtain an IP address.

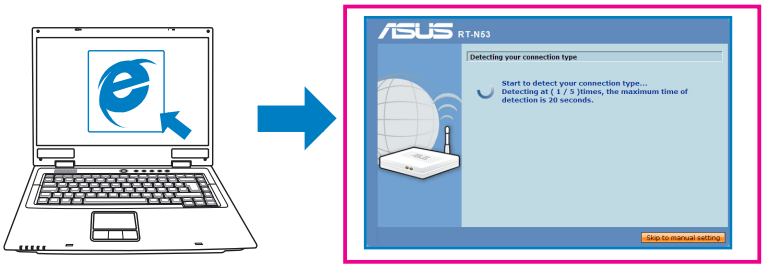
C. Disable the dial-up connection, if enabled.

NOTE: For more details on disabling your computer settings, refer to Frequently Asked Questions (FAQs).

Getting started

1. Configure your wireless settings via the wireless router's web graphics user interface (web GUI).

a. Launch your web browser such as Internet Explorer, Firefox, Google Chrome, or Safari.



NOTE: If QIS does not launch automatically, follow these steps to manually launch QIS:

- On your web browser, key in **http://192.168.1.1**. Use the default username admin and password admin to log into the user interface.
- Click **GO** in the Quick Internet Setup field under Internet status in the Network Map page.

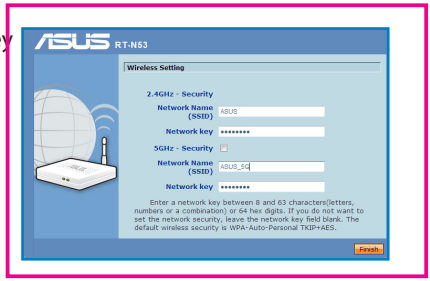
b. The wireless router's Quick Internet Setup (QIS) feature automatically detects if your ISP connection type is **Dynamic IP**, **PPPoE**, **PPTP**, **L2TP**, and **Static IP**. Key in the necessary information for your connection type.

NOTES:

- The auto-detection of your ISP connection type takes place when you configure the wireless router for the first time or when your wireless router is reset to its default settings.
- If QIS does not detect your Internet connection type, click **Skip to manual setting** and manually configure your connection settings.

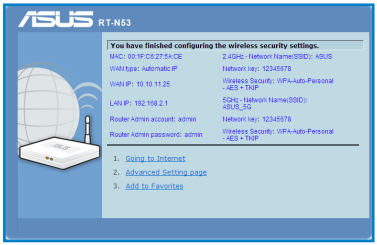
IMPORTANT! Obtain the necessary information about your Internet connection type from your Internet Service Provider (ISP).

c. Assign the network name (SSID) and security key for your 2.4GHz and 5GHz wireless connection.



NOTE: You can assign a network name with up to 32 characters.

d. Internet connection and wireless setup are completed.



2. Write down your router's settings.

IMPORTANT! Keep this information in a secure location.

2.4GHz Wireless Settings	
Network Name (SSID):	
Security Key:	
5GHz Wireless Settings	
Network Name (SSID):	
Security Key:	
Router Settings	
Username:	
Password:	

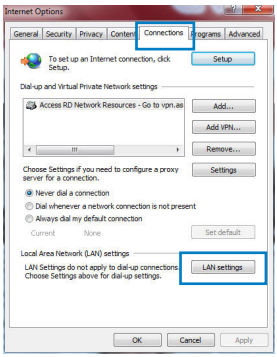
Frequently Asked Questions (FAQs)

After following the steps, I still cannot access the wireless router's web graphics user interface (web GUI) to configure the wireless router settings.

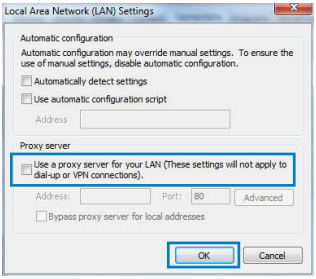
A. Disable the proxy server, if enabled.

Windows® 7

1. Click **Start** > **Internet Explorer** to launch the web browser.
2. Click **Tools** > **Internet options** > **Connections** tab > **LAN settings**.

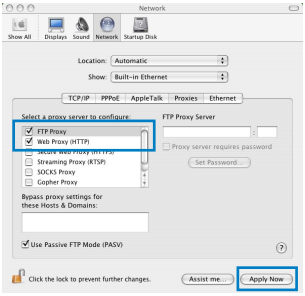


3. From the Local Area Network (LAN) Settings screen, untick **Use a proxy server for your LAN**.
4. Click **OK** when done.



MAC OS

1. From your Safari browser, click **Safari** >**Preferences** > **Advanced** > **Change Settings...**
2. From the Network screen, deselect **FTP Proxy** and **Web Proxy (HTTP)**.
3. Cllick **Apply Now** when done.

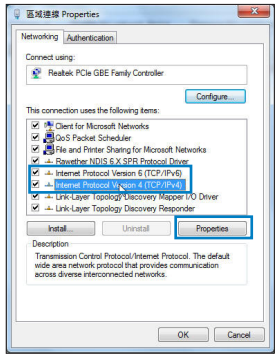


NOTE: Refer to your browser's help feature for details on disabling the proxy server.

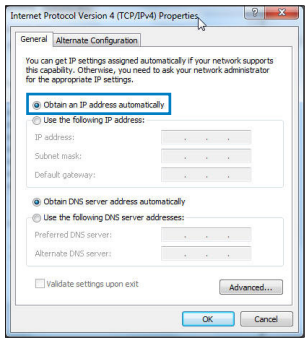
B. Set the TCP/IP settings to automatically obtain an IP address.

Windows® 7

1. Click **Start** > **Control Panel** > **Network and Internet** > **Network and Sharing Center** > **Manage network connections**.
2. Select **Internet Protocol Version 4 (TCP/IPv4)**, then click **Properties**.

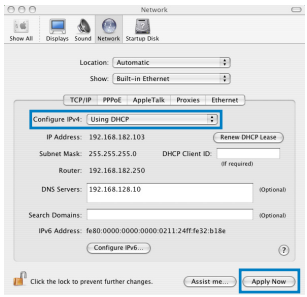


3. To obtain the iPv4 IP settings automatically, tick **Obtain an IP address automatically**.
4. Click **OK** when done.



MAC OS

1. Click the Apple icon located on the top left of your screen.
2. Click **System Preferences** > **Network** > **Configure...**
3. From the **TCP/IP** tab, select **Using DHCP** in the **Configure IPv4** dropdown list.
4. Cllick **Apply Now** when done.

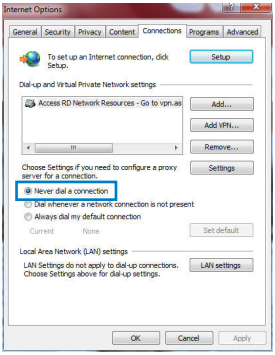


NOTE: Refer to your operating system's help and support feature for details on configuring your computer's TCP/IP settings.

C. Disable the dial-up connection, if enabled.

Windows® 7

1. Click **Start** > **Internet Explorer** to launch the browser.
2. Click **Tools** > **Internet options** > **Connections** tab.
3. Tick **Never dial a connection**.
4. Click **OK** when done.



NOTE: Refer to your browser's help feature for details on disabling the dial-up connection settings.

D. Close all running web browsers.

The client cannot establish a wireless connection with the router.

Out of Range:

- Put the router closer to the wireless client.
- Try to change the channel settings.

Authentication:

- Use wired connection to connect to the router.
- Check the wireless security settings.
- Press the Reset button at the rear panel for more than five seconds.

Cannot find the router:

- Press the Reset button at the rear panel for more than five seconds.
- Check the setting in the wireless adapter such as SSID and encryption settings.

Cannot access the Internet via wireless LAN adapter.

- Move the router closer to the wireless client.
- Check whether the wireless adapter is connected to the correct wireless router.
- Check whether the wireless channel in use conforms to the channels available in your country/area.
- Check the encryption settings.
- Check if the ADSL or Cable connection is correct.
- Retry using another Ethernet cable.

If the ADSL "LINK" light blinks continuously or stays off, Internet access is not possible - the Router is unable to establish a connection with the ADSL network.

- Ensure that all your cables are all properly connected .
- Disconnect the power cord from the ADSL or cable modem, wait a few minutes, then reconnect the cord.
- If the ADSL light continues to blink or stays OFF, contact your ADSL service provider.

Network name or encryption keys are forgotten.

- Try setting up the wired connection and configuring the wireless encryption again.
- Press the Reset button of the wireless router for more than five seconds.
- Factory default settings:

User name / Password: admin / admin	**IP address:** 192.168.1.1	**SSID:** ASUS

Where can I find more information about the wireless router?

- User Manual in the support CD
- Online FAQ site: **http://support.asus.com/faq**
- Technical Support site: **http://support.asus.com/techserv**
- Customer Hotline: Refer to the Support Hotline in this Quick Start Guide

SUPPORT HOTLINE			
Area	**Hotline Number**	**Support Languages**	**Availability**
USA/Canada	1-812-282-2787	English	**Mon. to Fri.** 8:30-12:00am EST (5:30am-9:00pm PST) **Sat. to Sun.** 9:00am-6:00pm EST (6:00am-3:00pm PST)
Brazil	4003 0988 (Capital) 0800 880 0988 (demais localidades)	Portuguese	**Mon. to Fri.** 9:00am-18:00

EC Declaration of Conformity

We, the undersigned,

Manufacturer:	ASUSTek COMPUTER INC.
Address, City:	No. 150, LI-TE R.D., PEITOU, TAIPEI 112, TAIWAN R.O.C.
Country:	TAIWAN
Authorized representative in Europe:	ASUS COMPUTER GmbH
Address, City:	HARKORT STR. 21-23, 40880 RATINGEN
Country:	GERMANY

declare the following apparatus:

Product name :	Dual-band Wireless-N Router
Model name :	RT-N53

conform with the essential requirements of the following directives:

☒2004/108/EC-EMC Directive

☒ EN 55022: 2006+A1: 2007	☒ EN 55024: 1998+ A1: 2001+A2: 2003
☒ EN 61000-3-2: 2006	☒ EN 61000-3-3: 2008
☒ EN 61000-4-2: 2009	☒ EN 61000-4-3: 2006+ A1: 2008
☒ EN 61000-4-4: 2004	☒ EN 61000-4-6: 2009
☒ EN 61000-4-5: 2006	☒ EN 61000-4-11: 2004
☐ EN 55013:2001+A1:2003+ A2:2006	☐ EN 55020:2007

☒1999/5/EC-R &TTE Directive

☒ EN 300 328 V1.7.1(2006-10)	☒ EN 301 489-1: V1.8.1 (2008-04)
☐ EN 301 908-2 V3.2.1(2007-05)	☒ EN 301 489-17: V2.1.1 (2009-05)
☒ EN 301 893 V1.5.1(2008-12)	☐ EN 301 489-24 V1.4.1(2007-05)
☐ EN 50360:2001	☐ EN 302 326-2 V1.2.2(2007-06)
☐ EN 50371:2002	☐ EN 302 326-3 V1.3.1(2007-09)
☐ EN 62311:2008	☐ EN 301 357-2 V1.3.1(2006-05)
☒ EN 50385:2002	

☒2006/95/EC-LVD Directive

☐ EN 60950-1:2001+ A11:2004	☐ EN 60065:2002+ A1:2006
☒ EN 60950-1:2006	☐ EN 60950-1:2006+A11:2009

☒2009/125/EC-ErP Directive

Regulation (EC) No. 1275/2008	Regulation (EC) No. 278/2009
☐ EN 62301:2005	☒ EN 62301:2005
Regulation (EC) No. 642/2009	
☐ EN 62301:2005	

☒CE marking

(EC conformity marking)

Position : CEO

Name : Jerry Shen

Declaration Date: Aug.5, 2011

Year to begin affixing CE marking:2011

Signature : _____

Notices

ASUS Recycling/Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components, as well as the packaging materials. Please go to **http://csr.asus.com/english/Takeback.htm** for the detailed recycling information in different regions.

REACH

Complying with the REACH (Registration, Evaluation, Authorisation, and Restriction of Chemicals) regulatory framework, we published the chemical substances in our products at ASUS REACH website at **http://csr.asus.com/english/REACH.htm**

Federal Communications Commission Statement

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 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 the dealer or an experienced radio/TV technician for help.

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

For operation within 5.15 ~ 5.25GHz frequency range, it is restricted to indoor environment.

IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

WARNING! The use of a shielded-type power cord is required in order to meet FCC emission limits and to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used. Use only shielded cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

(Reprinted from the Code of Federal Regulations #47, part 15.193, 1993. Washington DC: Office of the Federal Register, National Archives and Records Administration, U.S. Government Printing Office.)

Declaration of Conformity (R&TTE directive 1999/5/EC)

The following items were completed and are considered relevant and sufficient:

- Essential requirements as in [Article 3]
- Protection requirements for health and safety as in [Article 3.1a]
- Testing for electric safety according to [EN 60950]
- Protection requirements for electromagnetic compatibility in [Article 3.1b]
- Testing for electromagnetic compatibility in [EN 301 489-1] & [EN 301] & [EN 301 489-33]
- Effective use of the radio spectrum as in [Article 3.2]
- Radio test suites according to [EN 302 065]

CE Mark Warning

This is a Class B product, in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Industry Canada statement:

This device complies with RSS-210 of the Industry Canada 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.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

IMPORTANT NOTE:

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Caution:

The device for the band 5150-5250 MHz is 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 devices.

NOTE IMPORTANTE: (Pour l'utilisation de dispositifs mobiles)

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Avertissement:

Le dispositif fonctionnant dans la bande 5150-5250 MHz est réservé uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

Les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

NCC Statement

注意!

依據 低功率電波輻射性電機管理辦法
第十二條　經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。
第十四條　低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。
前項合法通信,指依電信規定作業之無線電信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

在5.25-5.35秭赫(GHz)頻帶內操作之無線資訊傳輸設備，限於室內使用。

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