Q-WLU3020-V10

Wireless USB 2.0 Adapter

Quick Installation Guide

Version 1.0

Aug. 26, 2005

WLU3020

Specifications:

Form factor	USB Wireless module
Chipset	Broadcom BCM4320 and BCM2050
Operation Voltage	5.0VDC
Network Standards	IEEE 802.11b (Wi-Fi™) Standard and IEEE 802.11g Standard (54G)
Modulation Techniques	BPSK, QPSK, CCK, 16QAM, 64QAM
Modulation Technology	OFDM, DSSS
Data Rate	802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps (Turbo mode: up to 108 Mbps)
Network Architectures	Infrastructure and Ad Hoc
Operating Frequencies	2.412 - 2.462 GHz for FCC/IC and Taiwan
Antenna Type	Planar Inverted-F Antenna (PIFA)
Operating Channels	802.11b : 1 ~ 11 for North America£v and Taiwan 802.11g : 1 ~ 11 for North America and Taiwan
RF Output Power	B mode 17.5 dBm, G mode 14 dbm (typical output power ± 2 dBm)
Receiver sensitivity (PER <10%)	11b: -86dBm @ 11Mbps and PER<8% 11g: -69dBm @ 54Mbps and PER<10%
Power Consumption	Tx : 11b:350mA ,11g:300mA@ 5V DC; Rx : 200 mA @ 5VDC; Idle: 100mA @ 5V DC
Security	Hardware 64/128-bit WEP engine; WEP weak-key avoidance, TKIP, hardware AES engine supporting CCM and OCB, 802.1x, SSN
Client Utility	Automatic location profile, site monitor, current link status, and diagnostics
Software Support	Microsoft WHQL certified for Windows XP
Temperatures	Operates from 0 to 55 C; Storage from -20 to 70 C
Humidity (non-condensing)	5 to 95%
Certifications	

Installing Wireless Adapter Driver and Utility

This quick installation guide guides you to install the USB Wireless LAN Card driver and utility. Windows 98, ME, 2000, and XP use the same setup program; however, operation system-specific situation may occur during or after the installation process. The following steps only guide you through the overall installation procedure. In OS-specific situations, you should follow the on-screen instructions to proceed. You can refer to user manual for the details.

Note

If your system has not been installed with the driver, the Windows PnP function will detect the wireless adapter and issue a dialog box requesting for its driver. Click **Cancel** to quit the wizard at this point.

In case you need to re-install the driver and software for any reason, we recommend that you remove any previously installed driver and software from your system first. Refer to the section "Uninstalling the Wireless LAN Card" in your user manual for the instructions on how to remove previous driver.

System Requirements

To use the Wireless LAN Card, your computer must meet the following minimum requirements:

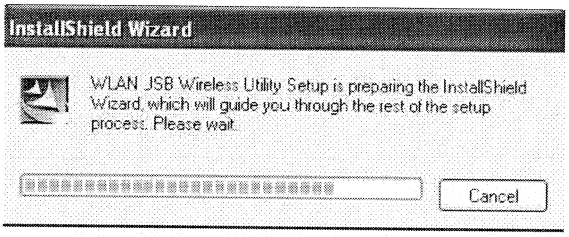
- Pentium-class PC, 300MHz or better recommended
- 64 MB of RAM, additional memory recommended

Hard disk space of at least 30 Mbytes

- Windows© 2000/XP

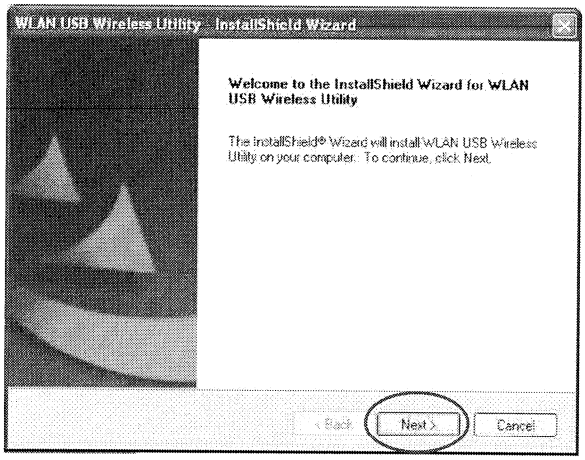
Follow these steps below to install the wireless adapter driver and utility.

1. Close all Windows programs that are running.
2. Insert the companion Utility CD into your CD-ROM drive and select Utility&Driver. Or, run Setup.exe on D:\Utility&Driver of the Software Utility CD where D is the drive letter.
3.



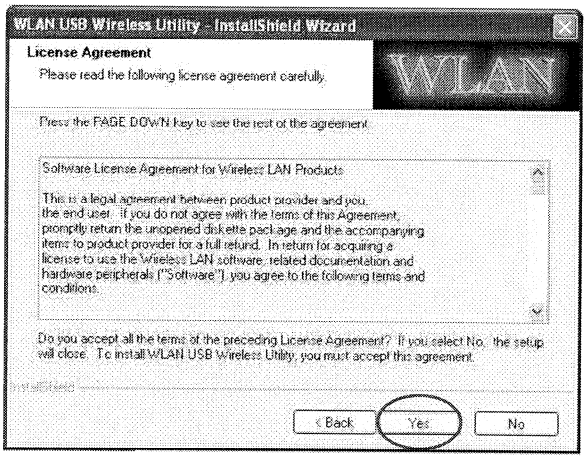
After you double click **Setup.exe** on the companion CD, an **InstallShield Wizard** window appears, and you may go to a next step when the processing bars end.

4.



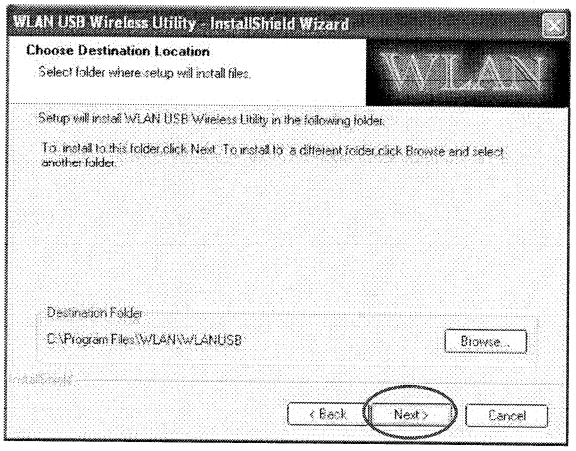
When the welcome screen pops up, click **Next**.

5.



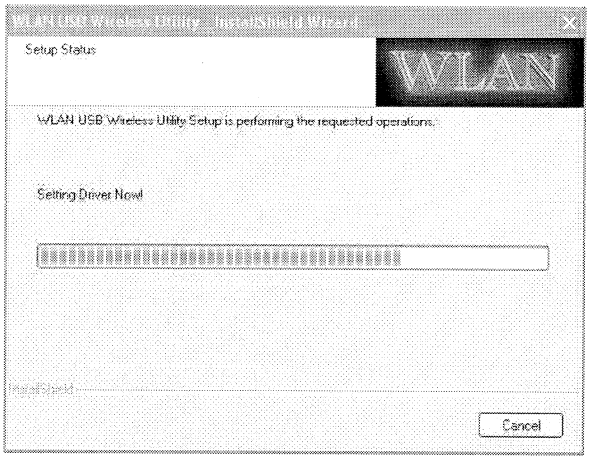
You see a License Agreement window. Please read carefully. If you agree, click **Yes** or click **No** to exit the installation.

6.



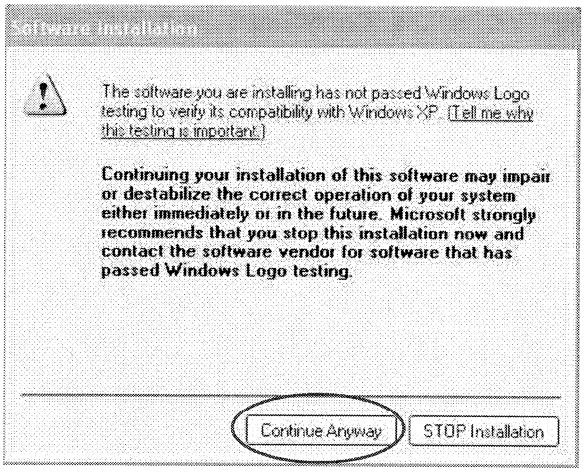
To install the software in a default destination folder, click **Next**. If you are to install the utility in a different folder, click **Browse** to select another folder, and then click **Next**.

7.



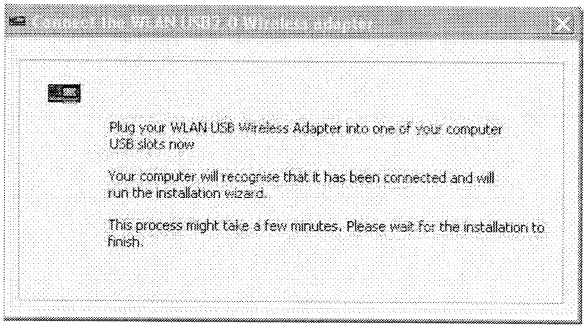
Now, you see processing bars increasing during installation. It takes a few minutes.

8.



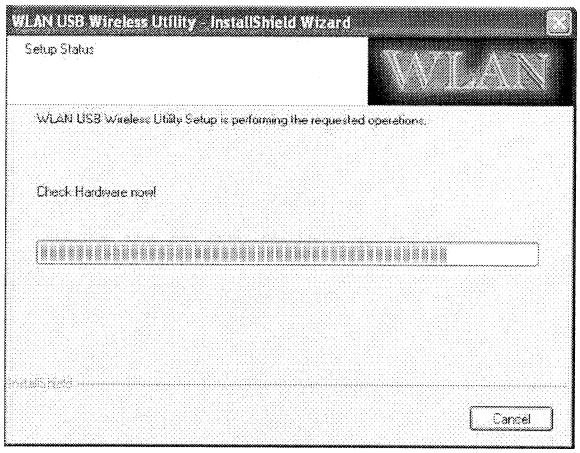
During installation, a warning window pops up. Click **Continue Anyway** to continue the installation work.

9.



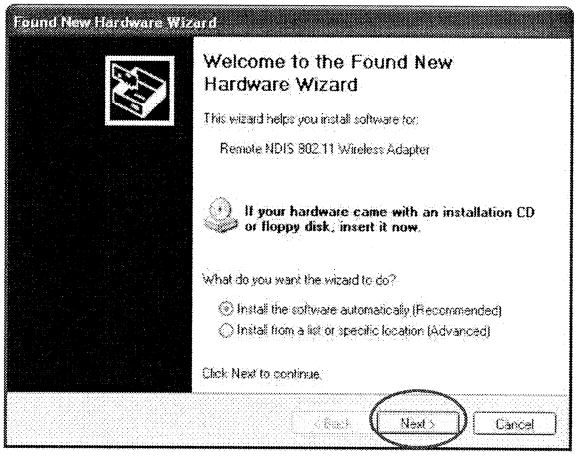
Plug in your WLAN USB Adapter when the screen pops up.

10.



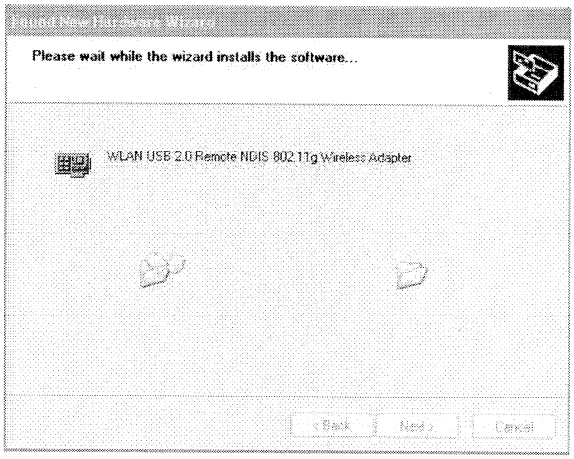
System is checking for new hardware.

11.



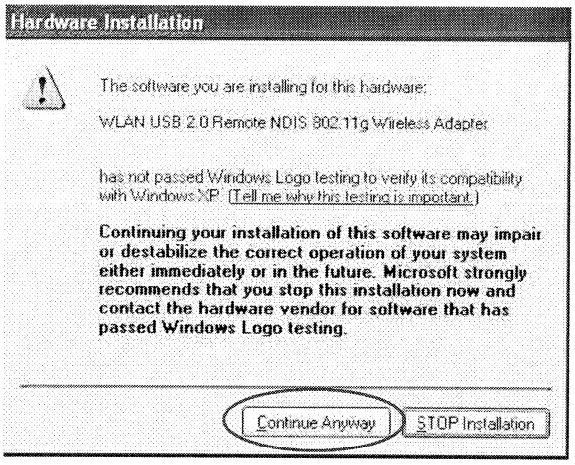
System found a new hardware and a **Found New Hardware Wizard** screen pops up. Choose **Install the software automatically (Recommended)** and then click **Next**.

12.



The wizard is installing the driver. It may take several minutes.

13

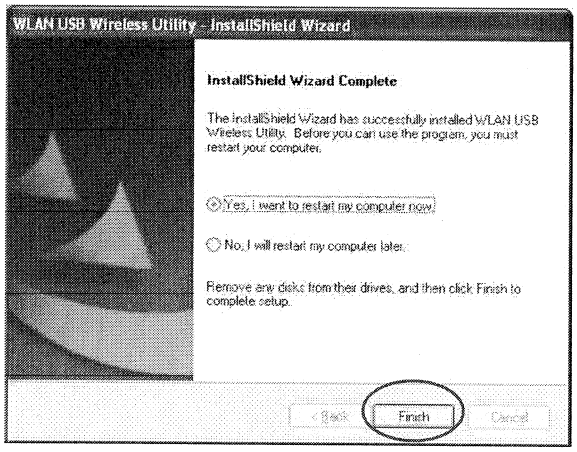


While the wizard is running, a **Hardware Installation** warning window pops up. Then, click **Continue Anyway** to continue the installation.

14.

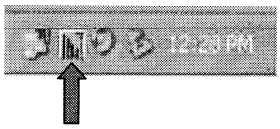
This adapter's driver and utility installation is completed. Click **Finish** to complete the installation process.

15.



Finally, you are asked to reboot your computer. It is recommended to restart your computer now by clicking **Finish**, or you may restart it later.

16.



When you succeed in installing the driver, you will see a logo indicating the wireless signal strength at a lower right corner of the toolbar on desktop, after you restart your computer.

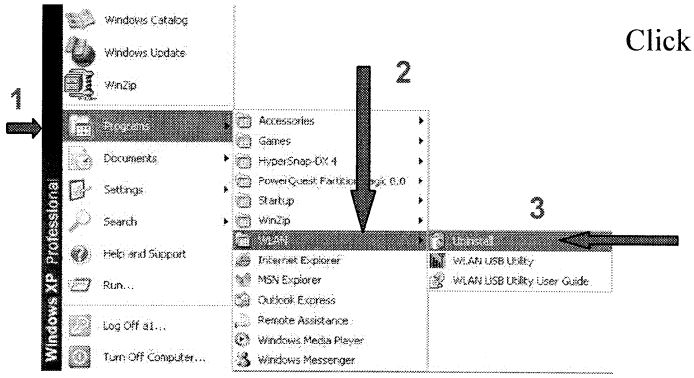
Uninstalling Wireless Adapter Driver and Utility

Should you need to uninstall the wireless LAN adapter driver and utility for any reason, you should uninstall the associated software and then remove the hardware from your computer. Please proceed as follows.

Before uninstalling the wireless LAN adapter driver and utility, please disable the utility by right clicking the utility tray icon and selecting Exit from the context menu. The icon will disappear, indicating that the utility is not in operation.

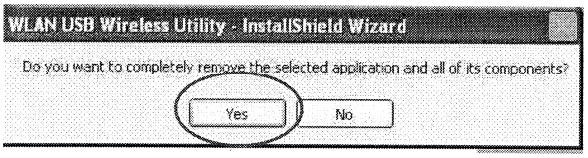
1. Close all programs that are currently running.

2.



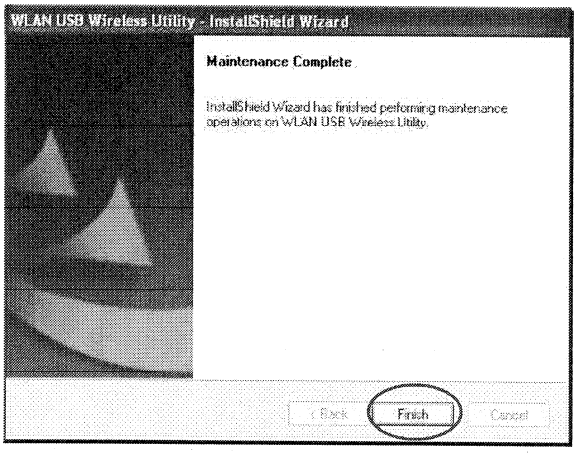
Click Start > Programs > WLAN > Uninstall.

3.



Click **Yes** to proceed with the software removal procedure.

4.

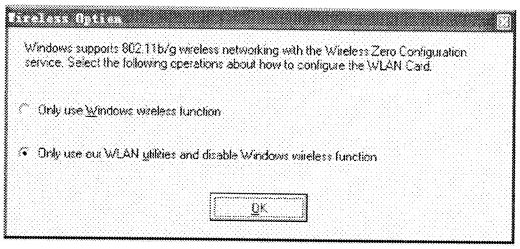


Click OK to finish the Wireless LAN Client Utility uninstallation.

Windows® XP Wireless Options

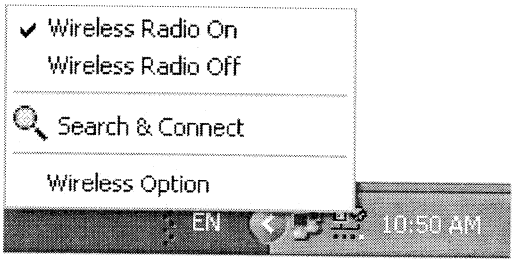
The wireless options window shown below is only available for Windows® XP. It appears when you run the Control Center utility at the first time. Select the utility you want to use for configuring your WLAN Card.

Only use Windows wireless function
– Only use Windows® XP Wireless Zero Configuration service to configure the WLAN Card.



Only use our WLAN utilities and disable XP wireless function
– Only use WLAN utilities to configure the WLAN Card. (recommended)

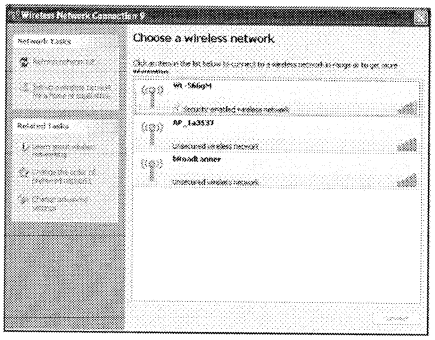
You can open the Wireless Option setting window at any time by left-clicking the control center icon and choosing **Wireless Option**.



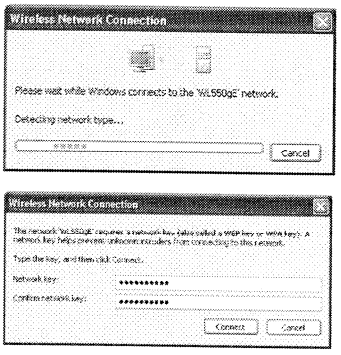
Taskbar Left-Click Menu

Configuring with Windows® Wireless Zero Configuration service

If you want to configure your WLAN Card via Windows® Wireless Zero Configuration (WZC) service, follow the instruction below to make the settings.

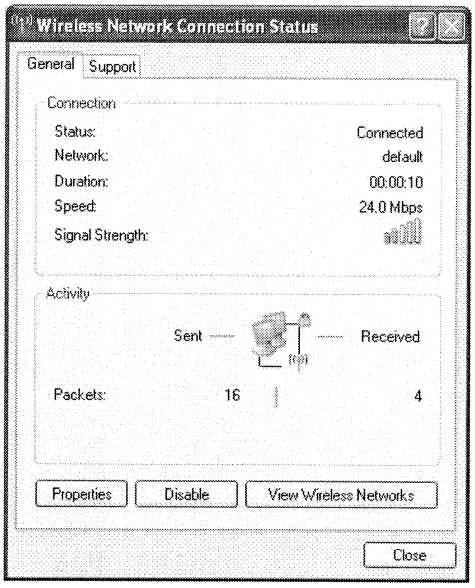


1. Double-click the wireless network icon on the task bar to view available networks.Select the AP and click **Connect**.

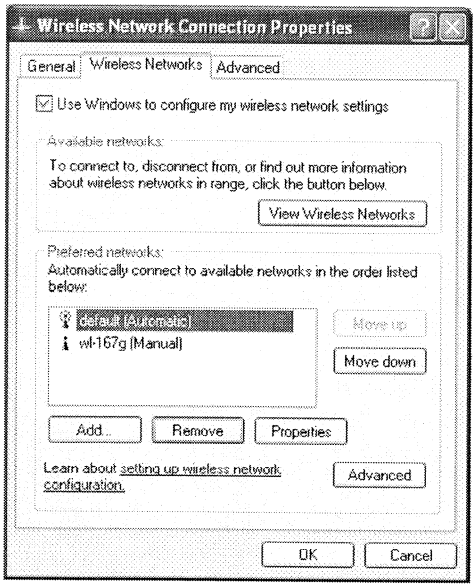


2. A window prompts out asking you for the key if you have set up encryption on your wireless router, input the keys and click **Connect**. The connection is complete.

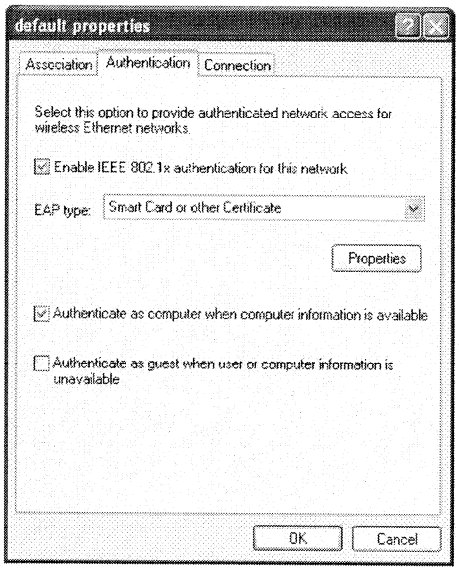
To set up the wireless connection properties, right-click the wireless icon on the taskbar and select **Open Network Connection**. Then right-click the network connection icon and select **Property** to open the Wireless Network Connection Status page.



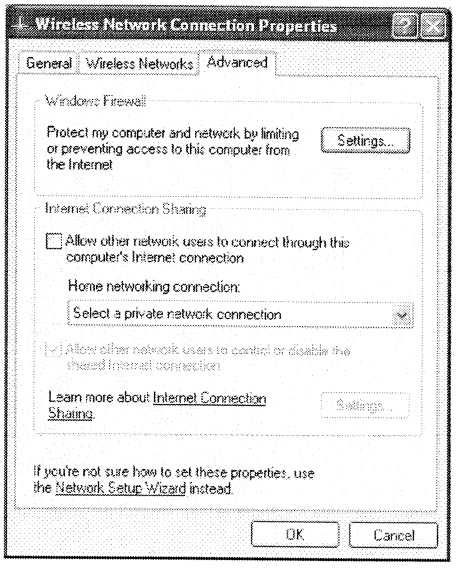
1. The **General** page shows status, duration, speed, and signal strength. Signal strength is represented by green bars with 5 bars indicating excellent signal and 1 bar meaning poor signal.



2. Select "Wireless Networks" tab to show **Preferred networks**. Use the **Add** button to add the "SSID" of available networks and set the connection preference order with the **Move up** and **Move down** buttons. The radio tower with a signal icon identifies the currently connected access point. Click **Properties** to set the authentication of the wireless connection.



3. The **Authentication** page allows you to add security settings. Read Windows help for more information.



4. The **Advanced** page allows you to set firewall and sharing. Read Windows help for more information.

Federal Communication Commission Interference 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.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance.

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

Canada-Industry Canada(IC)

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.

This device has been designed to operate with an antenna having a maximum gain of 2 dBi. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.