U.S.Robotics[®]

802.11g Wireless Turbo Router Quick Installation Guide

Package Contents:

- 802.11g Wireless Turbo Router - Quick Installation Guide - 5VDC power supply - two (2) detachable antennas - Installation CD-ROM - one (1) Ethernet cable



Note: For the most updated information, visit: http://www.usr.com/support. You can also refer to the User Guide on the U.S. Robotics Installation CD-ROM for more detailed information.



Front view

- 1. Power LED: The green Power LED stays lighted to indicate the system is functioning properly and flashes during the self-test phase or firmware upgrade process.
- 2. Status LED: This LED is lighted green to indicate active status and blinks yellow during a reset, a reboot, or during a firmware upgrade.
- 3. WAN LED: The green WAN port LED is lighted when a connection is established and flashes when the WAN port is sending or receiving data.
- 4. LAN 1-4 LEDs: These LEDs are lighted and green when a 100 Mbps connection is established to the respective LAN ports or blinking and green when the respective LAN ports are sending and receiving data. These LEDs are lighted and yellow when a 10 Mbps connection is established to the respective LAN ports or blinking and yellow when the respective LAN ports are sending and receiving data.



Back View

- RESET Button: Press in and hold the RESET button. While holding the RESET button, unplug then plug back in the
 power supply. When the 802.11g Wireless Turbo Router has power again, continue to hold the RESET button for about
 five seconds to reset the 802.11g Wireless Turbo Router to the factory default settings.
- 3. LAN Ports 1 4: The RJ-45 LAN ports are used to connect Ethernet devices to the LAN.
- 4. WAN: The RJ-45 WAN port is used to connect the 802.11g Wireless Turbo Router to a broadband modern.
- 5. 5VDC: This connection port is for the power supply of the 802.11g Wireless Turbo Router.
- 6. Antenna Ports: These connection ports are reverse polarity, SMA male connectors.

Before You Begin



Note: Your product number is USR8054. It is important that you have your serial number written down before you install the 802.11g Wireless Turbo Router. You can find your serial number on the bottom label of the 802.11g Wireless Turbo Router and on the side of the package. If you ever need to call our Technical Support department, you will need this number to receive assistance.

Product Number	Serial Number
USR8054	



Note: Be sure to find out what letter your CD-ROM drives uses before you begin installing your new product. You will need to know this to properly install your software



Connect your modem to the 802.11g Wireless Turbo Router

Cable or DSL modem users:

- Turn off your computer and your cable or DSL modem.
- Attach both antennas to the 802.11g Wireless Turbo Router.
- Locate the Ethernet cable from your cable or DSL modem that is connected to your computer's Ethernet adapter.
- Disconnect that Ethernet cable from your computer's Ethernet adapter, and connect it to the WAN port on the rear of the 802.11g Wireless Turbo Router.



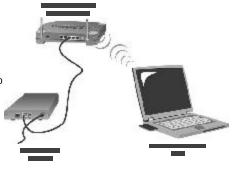


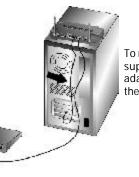
Note: Some cable or DSL modems can be connected using either a USB cable or an Ethernet cable. To connect your cable or DSL modem to the 802.11g Wireless Turbo Router, you must use an Ethernet cable.



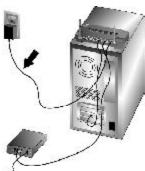
Connect your 802.11g Wireless Turbo Router to your computer and the power supply

To make a wireless connection: Make sure each wireless card that will be connected to the network is set to Infrastructure mode. If necessary, refer to your Wireless Card manual to determine how to change this setting.





To make an Ethernet connection: Connect one end of the supplied Ethernet cable to your computer's Ethernet adapter. Connect the other end to one of the LAN ports on the 802.11q Wireless Turbo Router.



All Users

Turn on your cable or DSL modem. Connect the included power adapter to the power socket on the 802.11g Wireless Turbo Router. Plug the power adapter into a standard power outlet. Turn on your computer.



Configure the basic connection settings

If you use a login application to connect to the Internet, refer to Appendix A in the Appendixes chapter of the User Guide on the Installation CD-ROM.

If you do not use a login application to connect to the Internet or if you have already configured the 802.11g Wireless Turbo Router, launch a Web browser and register your product at www.usr.com/productreg If the page loads, you are finished with the installation procedure.



Note: Refer to the "Configuring the 802.11g Wireless Turbo Router" section in the User Guide on the Installation CD-ROM for more detailed configuration information. Contact your ISP if you have any questions about your WAN type or your connection information.

Congratulations! The installation procedure is now complete. You should now have secure and shared Internet access. If you experience any difficulties, refer to the Troubleshooting section of this guide or to the User Guide on the Installation CD-ROM for more detailed information.



If you have any difficulties connecting to the 802.11g Wireless Turbo Router, check the following top three issues and see if they apply to your situation.

- If you are attempting to create a wireless connection but cannot connect to the 802.11g Wireless Turbo
 Router, make sure each wireless card is set to Infrastructure mode. If the wireless cards are set to 802.11g
 Adhoc mode, you will not be able to connect to the 802.11g Wireless Turbo Router. When each wireless
 card is set to Infrastructure mode, it should automatically connect to the Access Point of the 802.11g
 Wireless Turbo Router. If the wireless cards do not automatically connect, rescan until they detect the
 802.11g Wireless Turbo Router and connect.
- If you create a wireless connection to the 802.11g Wireless Turbo Router but are experiencing poor link
 quality, check the positioning of the 802.11g Wireless Turbo Router. Long distances, multiple floors, or
 steel or concrete walls can diminish the link quality. If possible, reposition the 802.11g Wireless Turbo
 Router to reduce the effect of any of these obstacles.
- If you have the 802.11g Wireless Turbo Router properly connected and can access the Internet but are
 experiencing difficulties connecting with special applications (e.g., ICQ, Battle.net, etc.), you must assign
 specific ports in order to bypass the firewall function. For more information about how to configure this
 function, refer to the "Special Applications" section within the "Configuring the 802.11g Wireless Turbo
 Router" chapter of the User Guide.

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Troubleshooting

I am no longer able to access the Internet.

Possible Solution:

Make sure that the power cord and all the Ethernet cables are connected correctly. This includes the cables connecting the 802.11g Wireless Turbo Router, the modem, and all the computers.

Possible Solution:

Make sure that your computer is using an IP address that is within the default range of 192.168.123.xxx. Make sure the address of the subnet mask is 255.255.255.0. The Default Gateway should be the IP address of the 802.11g Wireless Turbo Router, which is 192.168.123.254. To verify all of these settings, perform the following

Windows 95, 98, or Me Users: Click Windows Start and then Run. Type winipcfg and click OK. Check the IP Address, Subnet Mask, Default Gateway, and DNS server data to make sure they are correct. If the information is not correct, click Release All and then click Renew All.

Windows NT, 2000, or XP Users: Click Windows Start and then Run. Type cmd and click OK. At the DOS prompt, type ipconfig /all. Check the IP Address, Subnet Mask, Default Gateway, and DNS server data to make sure they are correct. If the information is not correct, type ipconfig /release and press ENTER. Then, type ipconfig /renew and press ENTER.

If 256-bit key encryption is selected, each wireless card or adapter must support 256-bit encryption. If you are using a Wireless PC Card or PCI Adapter that does not support 256-bit encryption, you will not be able to connect to the 802.11g Wireless Turbo Router.

If you have a Static IP address, make sure that you have correctly performed all of the steps in Appendix A or Appendix B of the "Appendixes" section of the User Guide on the Installation CD-ROM. If you have a Static IP address and did not configure all of the IP properties correctly for your computer, you will not be able to connect to the 802.11g Wireless Turbo Router.

Possible Solution:

You need to verify the connection setting of your Web browser and that the HTTP Proxy feature of your Web browser is disabled. You need to do this so that your Web browser can read the configuration pages inside your 802.11g Wireless Turbo Router. Launch your Web browser.

Internet Explorer users: Click Tools, Internet Options, and then the Connections tab. Select Never dial a connection, click Apply, and then click OK. Click Tools again, then click Internet Options. Click the Connections tab, and click the LAN Settings button. Clear all the check boxes and click OK. Click OK to

Netscape Navigator users: Click Edit, Preferences, and then double-click Advanced in the Category window. Click Proxies, select Direct connection to the Internet, and then click OK. Click Edit again, then click Preferences. Under Category, double-click Advanced, then click Proxies. Select Direct connection to the Internet and click OK.

My Configuration Utility is not responding, but I can still access the Internet.

Possible Solution:

If your Configuration Utility stops responding, unplug and then plug back in the power supply of the 802.11gWireless Turbo Router. This will reboot the 802.11g Wireless Turbo Router. If you are still unable to communicate with the Configuration Utility, press in and hold the RESET button. While holding the RESET button, unplug then plug back in the power supply. When the 802.11g Wireless Turbo Router has power again, continue to hold the RESET button for about five seconds to reset the 802.11g Wireless Turbo Router to the factory default settings. If you applied any personal configuration settings, you will need to make the changes again

I am unable to connect to the wireless function of the 802.11g Wireless Turbo Router. Possible Solution:

Be certain that you have each Wireless PC Card set to Infrastructure mode. If your Wireless PC Cards or PCI Adapters are set to 802.11q AdHoc mode, you will not be able to use the wireless function. Refer to the User Guide on the Installation CD-ROM for your Wireless PC Card to determine how to change this setting.



Note: 802.11g Ad-Hoc mode is used for peer-to-peer network configurations. Infrastructure mode is used to add an Access Point to the network configuration.

My computer does not recognise the wireless function of the 802.11g Wireless Turbo Router after I changed

Ensure that you are contacting the correct 802.11g Wireless Turbo Router by verifying the correct MAC address. Ensure that the correct passphrase and encryption option are being used. If you changed the settings in the configuration of the 802.11g Wireless Turbo Router, you must also change the settings of every Wireless PC Card or PCI Adapter attached to this network. The settings of the Wireless PC Cards or PCI Adapters must match the new settings of the 802.11g Wireless Turbo Router.

I cannot achieve 54 Mbps connections to the 802.11g Wireless Turbo Router Possible Solution:

Make sure the wireless products you are using to connect to the 802.11g Wireless Turbo Router support 54 Mbps speeds. 54 Mbps wireless products must be used in order to connect to the 802.11g Wireless Turbo Router at a speed of 54 Mbps. Launch the Configuration Utility and manually set the connection speed to 54 Mbps. If you are using non-U.S. Robotics wireless products, you may need to upgrade the firmware for those products in order to support 54 Mbps connections.

Possible Solution:

Low connection speed or range can also be caused by environmental interference. Try to move the product around to improve the link quality. In addition, keep in mind that other factors such as lead based paint, concrete walls, and electronic items such as 2.4G phones may effect your wireless range

For more troubleshooting information or for advanced wireless configuration options, refer to the User Guide on the Installation CD-ROM or go to www.usr.com/support

Are You Still Having Problems?

1. Go to the User Guide on the Installation CD-ROM.

More configuration and troubleshooting information is available in the User Guide on the Installation

2. Go to the Support section of the U.S Robotics Web site at www.usr.com.

Many of the most common difficulties users experience have been addressed in the FAQ and Troubleshooting Web pages for your specific product. Your product number is USR8054. You may need to know this to obtain information on the U.S. Robotics Web site.

3. Call the U.S. Robotics Technical Support department.

Technical questions about U.S. Robotics products can also be answered by technical support specialists.

Support Hours 9:00 A.M. - 5:00 P.M., Monday - Friday CST Voice Online United States (801) 401-1143 http://www.usr.com/emailsupport (801) 401-1143 http://www.usr.com/emailsupport 9:00 A.M. - 5:00 P.M., Monday - Friday CST For current support contact information, go to the following Web site: http://www.usr.com/support

Regulatory Approvals

FCC Declaration of Conformity

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

This device may not cause harmful interference

This device must accept any interference received, including interference that may causeundesired operation. 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. If this equipment is not installed and used in accordance with the manufacturer's instructions, it 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 to 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.

The use of shielded cables for connection of the monitor to the graphics card is required to assure compliance with FCC regulations. Modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Detachable Antenna Information

FCC Part 15, Subpart C, Section 15.203 Antenna requirement USR 8054 users: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 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 20 cm between the radiator and your body. UL Listina/CUL Listina

This information technology equipment is UL-Listed and CUL Listed for the uses described in the users guide. Industry Canada Statement

This equipment complies with the Industry Canada Spectrum Management and Telecommunications policy, RSS-210, standard Low Power License-Exempt Radio Communication Devices.

Operation is subject to the following two conditions:

1. This device may cause interference.

2. This device must accept any interference, including interference that may cause undesired operation of the device.

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CUSTOMER is specifically advised to make a backup copy of all software provided with this product.

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- Dated Proof of Purchase
- CUSTOMER contact name & telephone number
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- Any product or part returned to U.S. ROBOTICS without an RMA issued by U.S. ROBOTICS or its authorised U.S. ROBOTICS Service Centre will be returned.
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- Responsibility for loss or damage does not transfer to U.S. ROBOTICS until the returned product or part is received as an authorised return at an authorised U.S. ROBOTICS Return Centre.
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