

## 22 Mbps Wireless Cable/DSL Router Quick Installation Guide

### Package Contents:

- 22 Mbps Wireless Cable/DSL Router
- Quick Installation Guide
- two (2) detachable antennae
- 5VDC power supply
- Installation CD-ROM
- one (1) Ethernet cable



### Front View

- 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.
- Status LED:** This LED is lighted green to indicate active status and blinks yellow during a reset, a reboot, or during a firmware upgrade.
- RESET Button:** Press in and hold the RESET button. While holding the RESET button, unplug then plug back in the power supply. When the 22 Mbps Wireless Cable/DSL Router has power again, continue to hold the RESET button for about five seconds to reset the 22 Mbps Wireless Cable/DSL Router to the factory default settings.
- 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.
- LAN1 LED:** This LED is lighted and green when a 100 Mbps connection is established to LAN port 1 or blinking and green when LAN port 1 is sending and receiving data. This LED is lighted and yellow when a 10 Mbps connection is established to LAN port 1 or blinking and yellow when LAN port 1 is sending and receiving data.
- LAN2 LED:** This LED is lighted and green when a 100 Mbps connection is established to LAN port 2 or blinking and green when LAN port 2 is sending and receiving data. This LED is lighted and yellow when a 10 Mbps connection is established to LAN port 2 or blinking and yellow when LAN port 2 is sending and receiving data.
- WLAN LED:** This LED is lighted and green when there is a connection to the wireless network or blinking and green when the wireless clients are sending or receiving data.



### Back View

- PRINTER:** This parallel port is used to attach a printer to the local area network.
- COM:** This serial port can be used to connect an analogue or ISDN modem.
- LAN Ports 1 and 2:** The LAN ports are used to connect Ethernet devices to the LAN.
- WAN:** The RJ-45 WAN port is used to connect the 22 Mbps Wireless Cable/DSL Router to a broadband modem.
- 5VDC:** This connection port is for the power supply of the 22 Mbps Wireless Cable/DSL Router.
- Antennae Ports:** These connection ports are reverse polarity, SMA male connectors.

### What You Need to Begin

- **For Broadband Router Internet Sharing Functions:**
- PC with an Ethernet NIC installed or an 802.11b wireless adapter installed
- A functioning Ethernet-based cable or DSL modem OR an RS-232 based analogue or ISDN modem
- Operating system installation CD-ROM (i.e., your Windows XP CD-ROM)
- Internet Explorer 4 or later OR Netscape 4 or later
- An RS-232 serial cable if you have an analogue or ISDN modem
- 802.11b compatible Wireless PC Card, PCI Adapter, and/or USB Adapter installed and configured (for 22 Mbps speed and for 256 bit WEP security, use 22 Mbps Wireless Cards or Adapters)



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

## Before You Begin



**Note:** Your model number is 8022. It is important that you have your serial number written down before you install the 22 Mbps Wireless Cable/DSL Router. You can find your serial number on the bottom label of the 22 Mbps Wireless Cable/DSL 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
8022	



**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.

During the Installation procedure, you may be prompted for your Windows operating system CD-ROM. Make sure you have that available in case you need it.

## 1 Connect your modem to the 22 Mbps Wireless Cable/DSL Router

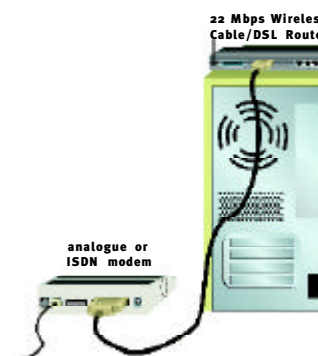
### Cable or DSL modem users:

- Turn off your PC and your cable or DSL modem.
- Attach both antennae to the 22 Mbps Wireless Cable/DSL Router.
- Locate the Ethernet cable from your cable or DSL modem that is connected to your PC's Ethernet adapter.
- Disconnect that Ethernet cable from your PC's Ethernet adapter, and connect it to the WAN port on the rear of the 22 Mbps Wireless Cable/DSL Router.



### Analogue or ISDN modem users:

- Turn off your PC and your analogue or ISDN modem.
- Attach both antennae to the 22 Mbps Wireless Cable/DSL Router.
- Locate the serial modem cable from your analogue or ISDN modem that is connected to your PC's serial port.
- Disconnect that serial modem cable from your PC's serial port, and connect it to the COM port on the 22 Mbps Wireless Cable/DSL Router.



**Note:** Some cable or DSL modems can be connected using both a USB cable and an Ethernet cable. To connect your cable or DSL modem to the 22 Mbps Wireless Cable/DSL Router, you must use an Ethernet cable.

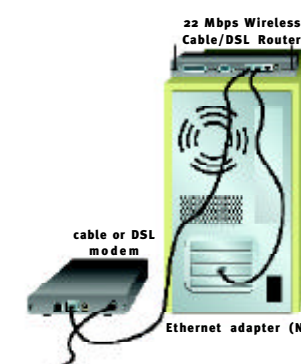
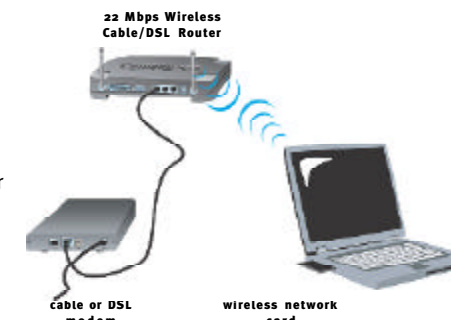


**Note:** Some analogue or ISDN modems can be connected using both a USB cable and a serial modem cable. To connect your analogue or ISDN modem to the 22 Mbps Wireless Cable/DSL Router, you must use a serial modem cable.

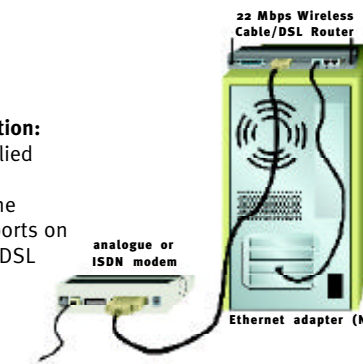
## 2

## Connect your 22 Mbps Wireless Cable/DSL 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 PC's Ethernet adapter. Connect the other end to one of the LAN ports on the 22 Mbps Wireless Cable/DSL Router.



**All users:** Turn on your cable, DSL, analogue, or ISDN modem. Connect the included power adapter to the power socket on the 22 Mbps Wireless Cable/DSL Router. Plug the power adapter into a standard power outlet. Turn on your PC.

## 3

## Configure the basic connection settings

**Analogue or ISDN modem users:** Launch a Web browser. In the location or address line of your Web browser, type <http://192.168.123.254> to access the Configuration Utility. There is no default password for the 22 Mbps Wireless Cable/DSL Router, so just click **Login**. Click **WAN**, **Change**, and select your WAN type as **Dial-up Modem**. You will need to enter the network information for your ISP account, including your user name, your password, and your dial-up number. When you are finished, click **Save**.

To verify your connection, click **Connect** in the Status page to initiate a dial-up session with your ISP. The Status page will indicate whether or not the call was successful. If the settings are correct, the analogue or ISDN modem can be used to connect to the Internet. If the connection fails, verify that you entered the correct values and try again.

**Cable or DSL modem users:** 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 22 Mbps Wireless Cable/DSL Router, launch a Web browser and register your product at [www.usr.com/prductreg](http://www.usr.com/prductreg). If the page loads, you are finished with the installation procedure.



**Note:** Refer to the "Configuring the 22 Mbps Wireless Cable/DSL Router" section in the User Guide 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.



**Note:** If you want to attach a printer to your network, refer to the “Print Server” section of the User Guide for installation instructions.



If you have any difficulties connecting to the 22 Mbps Wireless Cable/DSL 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 22 Mbps Wireless Cable/DSL Router, make sure each wireless card is set to Infrastructure mode. If the wireless cards are set to 802.11b AdHoc mode, you will not be able to connect to the 22 Mbps Wireless Cable/DSL Router. When each wireless card is set to Infrastructure mode, it should automatically connect to the Access Point of the 22 Mbps Wireless Cable/DSL Router. If the wireless cards do not automatically connect, rescan until they detect the 22 Mbps Wireless Cable/DSL Router and connect.

- If you create a wireless connection to the 22 Mbps Wireless Cable/DSL Router but are experiencing poor link quality, check the positioning of the 22 Mbps Wireless Cable/DSL Router. Long distances, multiple floors, or steel or concrete walls can diminish the link quality. If possible, reposition the 22 Mbps Wireless Cable/DSL Router to reduce the effect of any of these obstacles.

- If you have the 22 Mbps Wireless Cable/DSL 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 22 Mbps Wireless Cable/DSL Router” chapter of the User Guide.

## Troubleshooting

### I can't 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 22 Mbps Wireless Cable/DSL Router, the modem, and all the computers.

#### Possible Solution:

Make sure that your PC 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 22 Mbps Wireless Cable/DSL Router, which is 192.168.123.254. To verify all of these settings, perform the following steps:

**Windows 95, 98, or Me Users:** Click Windows**Start** and then **Run**. Type **wiupcfig** 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.

### I do not know if my IP Address is Static or Dynamic.

#### Possible Solution:

If you have Cable or DSL service, you most likely have a Dynamic IP address. You should always check with your service provider to verify this information, since some providers will assign Static IP addresses. If you have a Dynamic IP address, select **Dynamic IP Address** in the WAN Setup area of the Configuration Utility, and the 22 Mbps Wireless Cable/DSL Router will automatically obtain the information it needs from your service provider. If you have a Static IP address, select **Static IP Address** in the WAN Setup area of the Configuration Utility. You will need to refer to Appendix A or Appendix B in the “**Appendixes**” section of the User Guide to collect the necessary configuration information.

### I can't connect to the Configuration Utility of the 22 Mbps Wireless Cable/DSL Router.

#### Possible Solution:

Make sure all the Ethernet cables are properly and securely connected and that the power cord is plugged in.

#### Possible Solution:

If 256-bit key encryption is selected, each wireless card or adapter must support 256-bit encryption. If you are using a wireless card or adapter that does not support 256-bit encryption, you will not be able to connect to the 22 Mbps Wireless Cable/DSL Router.

#### Possible Solution:

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. If you have a Static IP address and did not select the Obtain an IP address automatically option for your computer, you will not be able to connect to the 22 Mbps Wireless Cable/DSL 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 22 Mbps Wireless Cable/DSL 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 close Internet Options.

**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 22 Mbps Wireless Cable/DSL Router. This will reboot the 22 Mbps Wireless Cable/DSL 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 22 Mbps Wireless Cable/DSL Router has power again, continue to hold the **RESET** button for about five seconds to reset the 22 Mbps Wireless Cable/DSL Router to the factory default settings. If you applied any personal configuration settings, you will need to make the changes again.

### My Cable or DSL service is not working, but I need to access the Internet.

#### Possible Solution:

If you have an external analogue modem and dial-up Internet service, you can still access the Internet. Connect the external analogue modem according to the “**Connecting an analogue or ISDN modem to the 22 Mbps Wireless Cable/DSL Router**” section described in the User Guide on the Installation CD-ROM. Open a Web browser and type <http://192.168.123.254> to access the Configuration Utility. Click **Setup**, **WAN**, **Change**, select **Dial-up Modem**, and click **Save**. Enter the appropriate information for your dial-up Internet Service Provider (ISP) settings.

### I am unable to connect to the wireless function of the 22 Mbps Wireless Cable/DSL Router.

#### Possible Solution:

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



**Note:** **802.11b 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 22 Mbps Wireless Cable/DSL Router after I changed the settings.

#### Possible Solution:

Ensure that you are contacting the correct 22 Mbps Wireless Cable/DSL 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 22 Mbps Wireless Cable/DSL 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 22 Mbps Wireless Cable/DSL Router.

### I cannot achieve 22 Mbps connections to the 22 Mbps Wireless Cable/DSL Router.

#### Possible Solution:

Make sure the wireless products you are using to connect to the 22 Mbps Wireless Cable/DSL Router support 22 Mbps speeds. 22 Mbps wireless products must be used in order to connect to the 22 Mbps Wireless Cable/DSL Router at a speed of 22 Mbps. Launch the Configuration Utility and manually set the connection speed to 22 Mbps.

#### Possible Solution:

You may be on a computer that is physically too far away from the 22 Mbps Wireless Cable/DSL Router. If you move closer to the 22 Mbps Wireless Cable/DSL Router, your connection speed should improve.

For more troubleshooting information, refer to the User Guide on the U.S. Robotics Installation CD-ROM.

## Are You Still Having Problems?

- Go to the User Guide on the Installation CD-ROM. More configuration and troubleshooting information is available in the User Guide on the Installation CD-ROM.
- Go to the Support section of the U.S. Robotics Web site at [www.usr.com](http://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 8022. You may need to know this to obtain information on the U.S. Robotics Web site.
- Call the U.S. Robotics Technical Support department. Technical questions about U.S. Robotics products can also be answered by technical support specialists.

Country	Voice	Online	Support Hours
United States	(801) 401-1143	<a href="http://www.usr.com/emailsupport">http://www.usr.com/emailsupport</a>	9:00 A.M. - 5:00 P.M., Monday - Friday CST
United Kingdom	0870 844 4546	<a href="mailto:uk_modemsupport@usr.com">uk_modemsupport@usr.com</a>	9:00 A.M. - 5:00 P.M., Monday - Friday CST
Canada	(801) 401-1143	<a href="http://www.usr.com/emailsupport">http://www.usr.com/emailsupport</a>	9:00 A.M. - 5:00 P.M., Monday - Friday CST
Argentina	AT&T Direct + (877) 643-2523	<a href="mailto:lat_modemsupport@usr.com">lat_modemsupport@usr.com</a>	9:00 A.M. - 5:00 P.M., Monday - Friday CST
Brazil	AT&T Direct + (877) 487-6253	<a href="mailto:brazil_modemsupport@usr.com">brazil_modemsupport@usr.com</a>	9:00 A.M. - 5:00 P.M., Monday - Friday CST
Mexico	AT&T Direct + (877) 643-2523	<a href="mailto:lat_modemsupport@usr.com">lat_modemsupport@usr.com</a>	9:00 A.M. - 5:00 P.M., Monday - Friday CST
Chile	AT&T Direct + (877) 643-2523	<a href="mailto:lat_modemsupport@usr.com">lat_modemsupport@usr.com</a>	9:00 A.M. - 5:00 P.M., Monday - Friday CST
Colombia	AT&T Direct + (877) 643-2523	<a href="mailto:lat_modemsupport@usr.com">lat_modemsupport@usr.com</a>	9:00 A.M. - 5:00 P.M., Monday - Friday CST
Costa Rica	AT&T Direct + (877) 643-2523	<a href="mailto:lat_modemsupport@usr.com">lat_modemsupport@usr.com</a>	9:00 A.M. - 5:00 P.M., Monday - Friday CST
Peru	AT&T Direct + (877) 643-2523	<a href="mailto:lat_modemsupport@usr.com">lat_modemsupport@usr.com</a>	9:00 A.M. - 5:00 P.M., Monday - Friday CST
Puerto Rico	AT&T Direct + (877) 643-2523	<a href="mailto:lat_modemsupport@usr.com">lat_modemsupport@usr.com</a>	9:00 A.M. - 5:00 P.M., Monday - Friday CST
Venezuela	AT&T Direct + (877) 643-2523	<a href="mailto:lat_modemsupport@usr.com">lat_modemsupport@usr.com</a>	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 cause undesired 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.

### 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 Listing/CUL Listing or CSA Certified

This information technology equipment is UL-Listed and CUL-Listed or CSA-Certified for the uses described in the User 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.



### CE Declaration of Conformity

We, U.S. Robotics Corporation of 935 National Parkway, Schaumburg, Illinois, 60173-5157,USA, declare under our sole responsibility that the U.S. Robotics 22 Mbps Wireless Cable/DSL Router to which this declaration relates is in conformity with the following standards and/or other normative documents:

EN60950

EN55022

EN55024

EN61000-3-2

EN61000-3-3

We hereby declare that this product is in conformity to all the essential requirements of Directive 1999/5/EC. The conformity assessment procedure referred to in Article 10(3) and detailed in Annex II of Directive 1999/5/EC has been followed.

## U.S. Robotics Corporation Limited Warranty

**HARDWARE:** U.S. Robotics warrants to the end user ("Customer") that this hardware product will be free from defects in workmanship and materials, under normal use and service, for the following length of time from the date of purchase from U.S. Robotics or its authorised reseller:

Two (2) years

U.S. Robotics' sole obligation under this express warranty shall be, at U.S. Robotics' option and expense, to repair the defective product or part, deliver to Customer an equivalent product or part to replace the defective item, or if neither of the two foregoing options is reasonably available, U.S. Robotics may, in its sole discretion, refund to Customer the purchase price paid for the defective product. All products that are replaced will become the property of U.S. Robotics. Replacement products may be new or reconditioned. U.S. Robotics warrants any replaced or repaired product or part for ninety (90) days from shipment, or the remainder of the initial warranty period, whichever is longer.

**SOFTWARE:** U.S. Robotics warrants to Customer that each software program licensed from it will perform in substantial conformance to its program specifications, for a period of ninety (90) days from the date of purchase from U.S. Robotics or its authorized reseller. U.S. Robotics warrants the media containing software against failure during the warranty period. No updates are provided. U.S. Robotics' sole obligation under this express warranty shall be, at U.S. Robotics' option and expense, to refund the purchase price paid by Customer for any defective software product, or to replace any defective media with software which substantially conforms to applicable U.S. Robotics published specifications. Customer assumes responsibility for the selection of the appropriate applications program and associated reference materials. U.S. Robotics makes no warranty or representation that its software products will meet Customer's requirements or work in combination with any hardware or applications software products provided by third parties, that the operation of the software products will be uninterrupted or error free, or that all defects in the software products will be corrected. For any third-party products listed in the U.S. Robotics software product documentation or specifications as being compatible, U.S. Robotics will make reasonable efforts to provide compatibility, except where the noncompatibility is caused by a "bug" or defect in the third party's product or from use of the software product not in accordance with U.S. Robotics's published specifications or User Guide.

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**OBTAINING WARRANTY SERVICE:** Customer must contact a U.S. Robotics Corporate Service Centre or an Authorised U.S. Robotics Service Centre within the applicable warranty period to obtain warranty service authorisation. Dated proof of purchase from U.S. Robotics or its authorised reseller may be required. Products returned to U.S. Robotics' Corporate Service Centre must be pre-authorized by U.S.

Robotics with a Service Repair Order (SRO) number marked on the outside of the package, and sent prepaid and packaged appropriately for safe shipment, and it is recommended that they be insured or sent by a method that provides for tracking of the package. The repaired or replaced item will be shipped to Customer, at U.S. Robotics' expense, not later than thirty (30) days after U.S. Robotics receives the defective product. Return the product to:

In Canada: U.S.Robotics Unit-100 13751 Mayfield Pl. Richmond,B.C.Canada V6V 2G9	In Europe: FRS Europe BV. Draaibrugweg 2 1332 AC Almer The Netherlands	In the United States: USR-Walnut 528 Spanish Lane Walnut,CA 91789
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U.S. Robotics shall not be responsible for any software, firmware, information, or memory data of Customer contained in, stored on, or integrated with any products returned to U.S. Robotics for repair, whether under warranty or not.

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**DISCLAIMER:** Some countries, states, or provinces do not allow the exclusion or limitation of implied warranties or the limitation of incidental or consequential damages for certain products supplied to consumers, or the limitation of liability for personal injury, so the above limitations and exclusions may be limited in their application to you. When the implied warranties are not allowed to be excluded in their entirety, they will be limited to the duration of the applicable written warranty. This warranty gives you specific legal rights which may vary depending on local law.

**GOVERNING LAW:** This Limited Warranty shall be governed by the laws of the State of Illinois, U.S.A. excluding its conflicts of laws principles and excluding the United Nations Convention on Contracts for the International Sale of Goods.

R24.0302.00

Printed in Taiwan