



Wireless Access Point

Windows 95, 98, 2000, Me, NT, and XP

Companion Reference Guide



Step 1. Connect the Wireless Access Point

- Use the Ethernet port and an RJ-45 cable to connect the Wireless Access Point to one of the following devices: a cable or DSL modem with routing capabilities, a hub, a bridge, an existing Ethernet LAN, or a router.
- Attach the antenna to the Wireless Access Point.
- Attach the power supply to the Wireless Access Point.

Step Two: Install your software

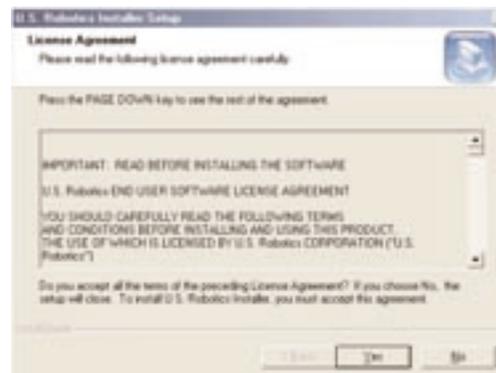
Note: You only need to install this software on the PC or laptop that was originally connected to your modem, bridge, router, or hub.

Insert your U.S. Robotics Installation CD-ROM into your CD-ROM drive. In the Choose Setup Language window, select your preferred language and click **OK**.

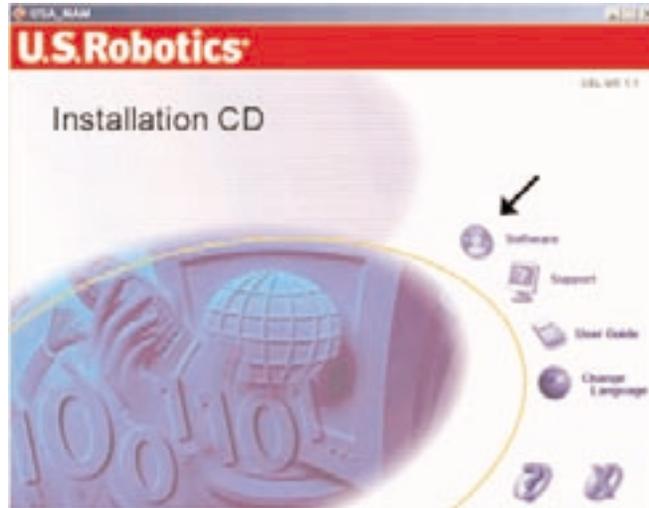


Note: If your CD-ROM does not automatically launch, click Windows **Start**, **Run**, and type **D:\setup** (or the appropriate letter of your CD-ROM drive) and click **OK**.

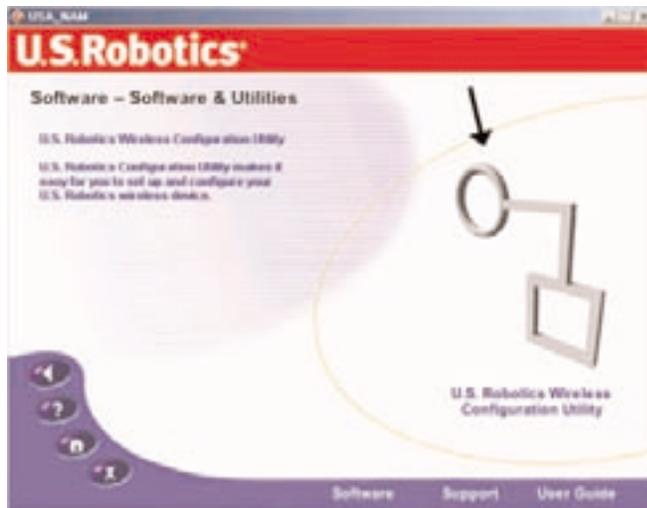
Some files will be copied to your system, and then you will be asked to read the license agreement. Read the agreement and click **Yes**.



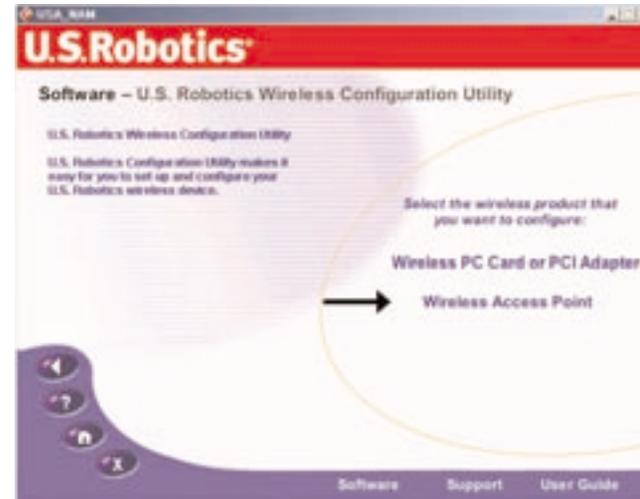
The Installation CD Graphic User Interface (GUI) will appear on your screen. Click **Software**.



Click the icon for the U.S. Robotics Wireless Configuration Utility.



Click **Wireless Access Point**.



Follow the on-screen instructions and wait for some files to be copied to your hard drive. A window will appear showing you the files that have loaded onto your system. Close this window. The program window with the Configuration Utility icons will appear. Close this window.

Note: Each Wireless Access PC Card or PCI Adapter in the wireless network must have the **Infrastructure** mode selected within the Configuration Utility. If you are using a U.S. Robotics Wireless Access PC Card or PCI Adapter, the Configuration Utility will look like the graphic below.

Note: The Wireless Configuration Utility for the Wireless Access Point is not currently supported for Windows NT.

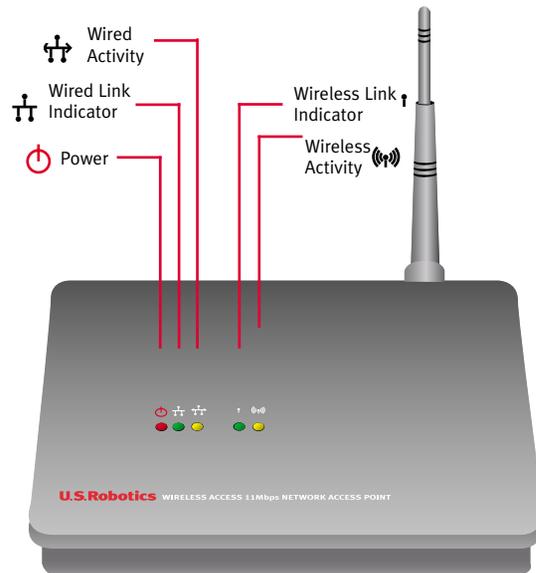


Step 3. Verify the detection of the Wireless Access Point

The WLAN Access Point Utility should automatically detect the new Wireless Access Point. If the WLAN Access Point Utility does not automatically detect the Wireless Access Point, refer to the Troubleshooting section of this guide. The WLAN Access Point Utility program icon in the system tray will change from red to green when a Wireless Access Point is detected.

The Wireless Access Point has five LED status indicators. The function of each indicator is described in the following table and graphic:

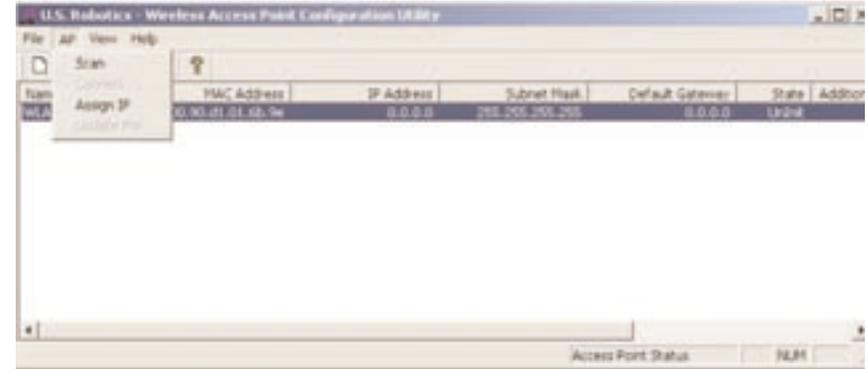
LED	Status	Description
Power	ON/Red	Indicates that power is being supplied
Wired Link Indicator	ON/Green	Indicates that the Wireless Access Point Ethernet Cable is connected to your LAN.
Wired Activity	Blinking/Yellow	Indicates that the Wireless Access Point is transmitting or receiving data on the 10 Mbps Ethernet LAN.
Wireless Link Indicator	Blinking/Green	Indicates that the PC Card or PCI Adapter is connecting to the Wireless Access Point.
Wireless Activity	Blinking/Yellow	Indicates that the Wireless Access Point is transmitting data to or receiving data from a Wireless Access PC card or PCI Adapter.



If you need to reset the Wireless Access Point at any time, perform the following steps. Press in and hold the Reset button. While holding in the Reset button, unplug the power adapter from the Wireless Access Point and then plug it back in. Release the Reset button and then press it once. This will restore the factory default settings. When this is performed, the

Wireless Activity LED will blink. If you press the Reset button a second time, all setting information except for the password and the encryption data will be cleared. If this is done, the Wireless Link Indicator will blink.

Step 4. Configuration of the Wireless Access Point



After the Wireless Access Point is installed, click Windows **Start, Programs,** and **WLAN Access Point Utility** to launch the Access Point Configuration Utility. Click **AP** in the toolbar and then click **Scan**.

This will search for the Wireless Access Point in the network. If a Wireless Access Point is detected, the WLAN Access Point Utility will display the Wireless Access Point information. By default, all Wireless Access Points are named WLAN01. After you successfully connect to the WLAN Access Point Utility, you can change the name of the Wireless access Point.

If you are using multiple Wireless Access Points, you must know the MAC address of the Wireless Access Point you are currently configuring. The MAC address is located on the bottom of the Wireless Access Point case and in the Utility tool in the State field. Locate the correct Wireless Access Point in the list that appears. If the listed Wireless Access Point does not match the MAC address on the bottom of the correct Wireless Access Point, refer to the Troubleshooting section in this guide or in the User Guide on the Installation CD-ROM for more information.

Double-click the correct Wireless Access Point in the list.

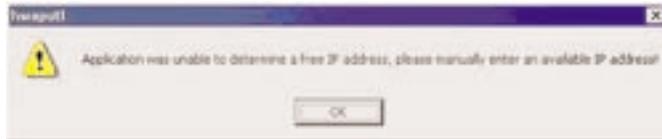
If the Wireless Access Point in the list has an IP address, the Access Point Web Configurator will launch in your default Web browser.

Congratulations! You have finished installing your hardware and the necessary software. You should now be able to connect your Wireless Access PC Cards and PCI Adapters to the Wireless Access Point.

If the Wireless Access Point in the list does not have an IP address, proceed to the Assigning an IP address to the Wireless Access Point section in this guide.

Assigning an IP address to the Wireless Access Point.

If you see the following window when you double-click the Wireless Access Point in the Access Point Configuration Utility, your Wireless Access Point did not acquire a valid IP address for your network and you will need to manually assign an IP address.



Perform the following steps to assign an IP address:

- After you see the window stating a free IP address could not be determined, click **OK**. The following window will appear.



This will allow you to manually input an IP address for your Wireless Access Point. If you can communicate with the Wireless Access Point through an Ethernet connection, the Wireless Access Point will receive the network information from the computer it is connected to.

- In the Assign Temporary IP Address window, verify that the Wireless Access Point has been identified with the correct network and enter a valid IP address. An address with at least one zero at the end represents the Network Address. Change the zero at the end to any number between 1 and 253 to assign a valid IP address. An example of what you might see is 192.168.0.0. Change this to 192.168.0.x (where x is between 1 and 253).
- After you have entered an IP address, click **OK** and you will receive a message saying that the IP address is temporary. Click **OK** to finish the installation procedure.

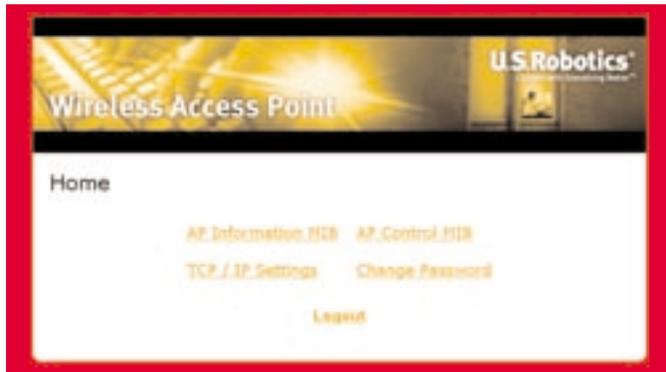
Access Point Web Configurator

To access the Access Point Web Configurator, double-click the name of the correct Wireless Access Point in the list. The utility automatically links to the Login Page of the Access Point Web Configurator using your Windows default browser. The default password is **WLAN_AP**. Enter the password and click **Login**.



Depending on your firmware version, you may be prompted to enter a user name. If you are prompted for a user name, type **Default**. The Password and User Name fields are case-sensitive.





There are four configuration screens within the Access Point Web Configurator: **AP Information MIB**, **AP Control MIB**, **TCP/IP Settings**, and **Change Password**. The Home option within each configuration screen will return you to the main selection menu.



Click **Encryption** to change the encryption security settings.

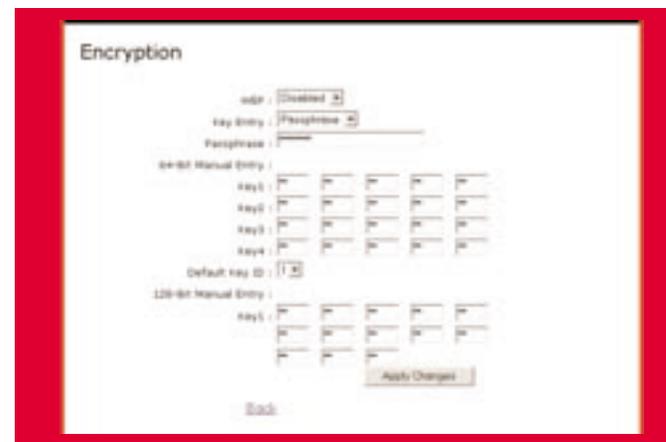
Within the **Encryption** option, you can modify the WEP and the Key Entry. There are three levels of encryption available: **Disabled**, **WEP_64**, and **WEP_128**. If you select **WEP_64** or **WEP_128**, and **Passphrase** for a Key Entry, you must then enter a passphrase. This will generate the hex value to encrypt your data. Each computer that will be connecting to the wireless network must have this exact information entered. If you select **Manual Entry** for Key Entry, you must then manually assign the hex keys for either 64-Bit Encryption or for 128-Bit Encryption. This method is only recommended for advanced users or for network compatibility.

When you are finished making any changes, click **Apply Changes** to save your settings.



The **AP Information MIB** option supplies you with the basic setting information for your Wireless Access Point.

The **AP Control MIB** option allows you to modify the DS Channel, the SSID, and the RTS Threshold. Once any changes are made in this option, you will not be able to communicate with the Wireless Access Point until you make the same changes to all of the Wireless Access PC Cards or PCI Adapters in the wireless network. You can also restore the default settings by clicking **Factory Default**.





The **TCP/IP Settings** option will supply your current settings, as well as give you the option to change any of these settings.

When you are finished making any changes, click **Apply Changes** to save your settings.

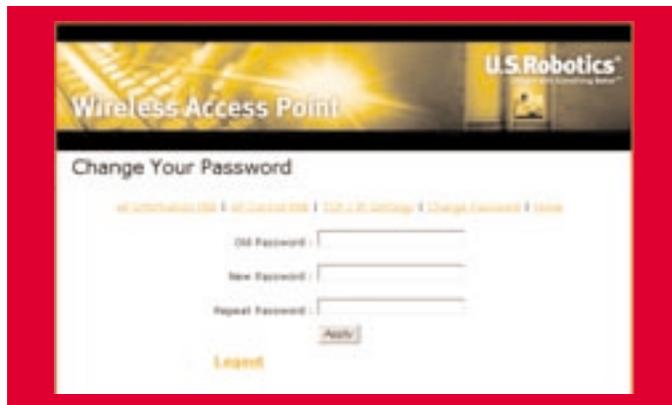
There is also the **Change Password** option, where you can change your password.

It is recommended that you write down the password for future reference. If you forget your password, you will be

locked out of the Access Point Web Configurator. You can reset the Wireless Access Point to restore the default settings. Press in and hold the Reset button. While holding in the Reset button, unplug the power adapter from the Wireless Access point and then plug it back in. Release the Reset button and then press it once. This will restore the factory default settings. When this is performed, the Wireless Activity LED will blink. If you press the Reset button a second time, all setting information except for the password and the encryption data will be cleared. If this is done, the Wireless Link Indicator will blink.

When you are finished changing your password, click **Apply** for the new password to be activated. For security purposes, it is recommended that you change your password after you successfully log in. Anytime you reset the Wireless Access Point, your password will revert to the default setting.

When you are finished viewing or changing your Wireless Access Point information, click **Log out**. You will then be asked if you are sure that you want to log out. Click **Yes**.



Troubleshooting

My computer does not recognize the Wireless Access Point after I changed the settings.

Possible Solution:

Ensure that the WLAN Configuration utility is installed for your Wireless Access Point and that the Configuration utility is installed and functioning for your Wireless Access PC Cards or PCI Adapters.

Possible Solution:

Ensure that you are contacting the correct Wireless Access Point and using the correct MAC address.

Possible Solution:

Ensure that the correct password and encryption option are being used. If you changed the settings in the configuration of the Wireless Access Point, you must also change the settings of every Wireless Access PC Card or PCI Adapter attached to this network. The settings of the Wireless Access PC Cards or PCI Adapters must match the new settings of the Wireless Access Point.

I am unable to communicate with the Wireless Access Point.

Possible Solution:

Be sure that each Wireless PC Card or PCI Adapter that you want to connect to the wireless network is set to **Infrastructure** mode within the Configuration Utility. If your Wireless Access PC Cards or PCI Adapters are not set to **Infrastructure** mode, they will not be able to communicate with the Wireless Access Point.

Possible Solution:

Your Wireless Access Point may not be responding. Try resetting the Wireless Access Point to reactivate it. Press in and hold the Reset button. While holding in the Reset button, unplug the power adapter from the Wireless Access point and then plug it back in. Release the Reset button and then press it once. This will restore the factory default settings. When this is performed, the Wireless Activity LED will blink. If you press the Reset button a second time, all setting information except for the password and the encryption data will be cleared. If this is done, the Wireless Link Indicator will blink.

Possible Solution:

Your Wireless Access Point may not have received a valid IP address for your network. If you see a window stating that a free IP address could not be determined when you double-click the Wireless Access Point in the Access Point Configuration Utility, you need to manually assign an IP address. Refer to the Assigning an IP address to the Wireless Access Point section in this guide.

I am unable to enter the Wireless Access Point Web Configurator.

Possible Solution:

Be certain that you are entering the correct user name (if there is one) and password. The password field is case-sensitive. The default password is **WLAN_AP** and there is no default user name.

My Wireless Access Point is not appearing in the list when I scan for it.

Possible Solution:

You may be on a computer that is physically too far away from the Wireless Access Point. Try moving closer to the Wireless Access Point and repeating the scan procedure. Check any physical connections between the Wireless Access Point and your modem, router, hub, LAN, or switch.

My computer is not acknowledging my Wireless Access Point.

Possible Solution:

Be certain that the Wireless Access Point is plugged into a power source and is properly installed. Make sure the Ethernet cable is securely connected to the Ethernet port on the Wireless Access Point and to the Ethernet port on your cable or DSL modem, router, hub, or bridge.

I am experiencing poor link quality in some areas of my home or office.

Possible Solution:

You might be encountering interference from walls or other structures that is lowering your link quality. Try placing your Wireless Access Point at a higher location, such as a higher shelf, or repositioning it in a different area of your room or office.

Are You Still Having Problems?

1. 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.

2. 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	http://www.usr.com/support/s-contact.asp	8:00 A.M. - 7:00 P.M., M-F CST
Canada	(801) 401-1145	http://www.usr.com/international.asp	8:00 A.M. - 7:00 P.M., M-F CST
Argentina	AT&T Direct + (877) 643-2523	lat_modemsupport@usr.com	9:00 A.M. – 5:00 P.M., M-F CST
Brazil	AT&T Direct + (877) 487-6253	lat_modemsupport@usr.com	9:00 A.M. – 5:00 P.M., M-F CST
México	AT&T Direct + (877) 643-2523	lat_modemsupport@usr.com	9:00 A.M. – 5:00 P.M., M-F CST
Chile	AT&T Direct + (877) 643-2523	lat_modemsupport@usr.com	9:00 A.M.– 5:00 P.M., M-F CST
Colômbia	AT&T Direct + (877) 643-2523	lat_modemsupport@usr.com	9:00 A.M. – 5:00 P.M., M-F CST
Costa Rica	AT&T Direct + (877) 643-2523	lat_modemsupport@usr.com	9:00 A.M. – 5:00 P.M., M-F CST
Peru	AT&T Direct + (877) 643-2523	lat_modemsupport@usr.com	9:00 A.M. – 5:00 P.M., M-F CST
Puerto Rico	AT&T Direct + (877) 643-2523	lat_modemsupport@usr.com	9:00 A.M.– 5:00 P.M., M-F CST
Venezuela	AT&T Direct + (877) 643-2523	lat_modemsupport@usr.com	9:00 A.M. – 5:00 P.M., M-F CST

To obtain the most current support information, including procedures to obtain Service Repair Orders, visit the U.S. Robotics Web site: <http://www.usr.com>

Regulatory Approvals

Federal Communications Commission Statement

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 20cm between the radiator and your body.

Manufacturer's Disclaimer Statement

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Two (2) years

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In The United States:

USR-Walnut
528 Spanish Ln.
Walnut, CA 91789

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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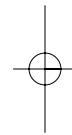
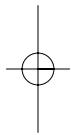
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