Exhibit 8

Installation and Operation Manual



INSTALLING THE WIRELESS MODEM

Congratulations on your purchase of the Expedience® residential subscriber unit (RSU). The RSU provides you with an always-on, wireless, high-speed Internet connection. Installation of the RSU is easy, and in a matter of minutes you can begin to receive broadband Internet service. You can connect the compact, portable unit directly to your computer or to a local area network.

Before you begin, make sure you have the following:

- Standard Ethernet NIC installed on your computer.
- If operating the RSU more than 4 meters from the computer or switch, purchase a category-5 Ethernet cable of appropriate length.
- ISP service agreement.

Package contents _

Your RSU comes with the components illustrated here.



Finding the best signal from the ISP

- 1. Place the RSU on a table or shelf. 2. Point the back of the RSU (the side without a logo) toward a window. Remove your hands from the RSU for a few seconds.
 - 3. Note the number of lights on the RSU that blink.
 - 4. Point the RSU to the left of the starting point, then to the right. At each point, note how many lights blink.
 - 5. Re-orient the back of the RSU to the direction it was pointed when the most lights blinked.
 - 6. Ensure that the lights stay on after you release your hands from the RSU.

Connecting Ethernet cable to computer

- Connecting cables to the RSU
 - 1. Plug the power cable into a wall outlet.
 - 2. Plug the power cable into the RSU.
 - 3. Plug the Ethernet cable into the RSU. 4. Do not connect the Ethernet cable to your



Checking the RSU's lights



The lights on the RSU blink to indicate the strength of the signal received by the RSU. The RSU is equipped with an internal antenna that receives this signal from your Internet service provider.



The more lights that blink on the RSU, the stronger the signal that the RSU receives.

If the RSU is not able to receive any signal, the lights blink in sequence. Choose another location in the building in which to operate the RSU.



After the installation is complete the lights remain continuously lit. This indicates the RSU can provide you with high-speed Internet service.



Setting the computer's IP address

Most RSU users need to set up their computer to receive an IP address automatically from their service provider.

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P Shog icon in taskbar when		- Click OK and close the Control Panel.
	OK. Cancel	- Restart your computer.

NOTE: Windows 95 requires the TCP/IP component "winsock2," which was not included in early versions of Windows 95. This component is available on the LinkMonitor CD-ROM shipped with the RSU.



- 1. Make sure the computer is powered off.
- 2. Plug the Ethernet cable into the computer.
- 3. Power on the computer.
- 4. When the RSU obtains Ethernet communication with your computer the lights stop blinking and remain on.

For more information

For more information about installing the RSU, refer to the guide "Expedience Broadband Wireless Access Modem." Also refer to this guide if you are connecting the RSU to a network device such as a switch or router.

This device is intended to be powered by Listed/CN ITE LPS or Class II power supply with output rated between 12 and 19.5 V dc, 24 watts minimur



FCC Information

NOTICE: This equipment has been tested and found to comply with the FCC Radio Frequency Radiation Exposure Limits. A minimum of 20 centimeters (8 inches) separation between the RSU and the operator and all other persons should be maintained.



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- Connection Properties window t the Internet Protocol Click Properties.
- Obtain an IP Address radio button.
- close the Control Panel.

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- Connections.
- connection vou want to alter: e of your NIC.
- p menu, select Properties
- Connection Properties window the Internet Protocol Click **Properties**.
- otain an IP Address adio button.
- lose the Control Panel.

If you use a non-Windows operating system, refer to documentation shipped with the operating system to learn how to set up the computer for DHCP. If you need to use a static IP address, refer to instructions from your service provider.



INSTALACIÓN DEL MÓDEM INALÁMBRICO **EXPEDIENCE[®]**

Felicitaciones por la adquisición de su Unidad Residencial de Subscriptor Expedience (RSU). El RSU le proveerá de un servicio continuo de conexión inalámbrica a Internet de alta velocidad. La instalación del RSU es muy fácil, en cuestión de minutos. Usted podrá empezar a recibir servicio de Internet de banda ancha. Usted también podrá conectar la unidad de tamaño compacto y portátil a su computadora o a la red del área local (Solo se podrán conectar hasta 15 computadoras a un RSU).



Antes de comenzar, asegúrese de lo siguiente:

- Oue la tarjeta de interfaz de red Ethernet (NIC) esté instalada en su computadora.
- Si el RSU se encuentra operando a una distancia mayor a los 4 metros desde la computadora o del hub o ruteador, adquiera un cable de Ethernet categoría 5 con la longitud adecuada.
- Contrato de servicio del Proveedor de Servicio de Internet.

Contenido del Paquete ____

Su RSU viene acompañado por los componentes que se muestran a continuación.



3	LOCALIZACI	Ó	n de la señal más intensa desde el isp
		1.	Coloque el RSU en una mesa o repisa.
× \		2.	Dirija la parte posterior del RSU (el lado sin logotipo) hacia la ventana. Remueva sus manos del RSU por unos segundos.
		3.	Observe el número de luces que parpadean en el RSU.
6		4.	Dirija el RSU hacia la izquierda de la posición inicial, después hacia la derecha. Observe cuantas luces parpadean en cada posición.
		5.	Re-oriente la parte posterior del RSU en la dirección en la cual estaba dirigido cuando el mayor número de luces estaba parpadeando.
	0	6.	Asegúrese de que las luces permanezcan encendidas después de que Usted retire sus manos del RSU.

CONEXIÓN DEL CABLEADO AL RSU

- 1. Conecte el cable de energía en el tomacorriente de pared.
- 2. Conecte el cable de energía en el RSU.
- 3. Conecte el cable Ethernet en el RSU.





CHEQUEANDO LAS LUCES DEL RSU



Las luces en el RSU parpadearán indicando la intensidad de la señal recibida por el RSU. El RSU está equipado con una antena interna la cual recibe la señal del proveedor de servicio de Internet.

Mientras más luces parpadeen en el RSU, más intensa será la señal recibida por el RSU, pero con una sola luz usted podrá tener servicio de Internet.

Si el RSU no recibe ninguna señal, las luces parpadearán en secuencia. Si este es el caso, elija un nuevo sitio dentro de su casa u oficina en el cual se pueda operar el RSU.



Después de que se haya completado la instalación, las luces permanecerán parpadeando continuamente; esto indica que el RSU podrá proveerle del servicio de Internet a alta velocidad.

5

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CONFIGURACIÓN DE LA DIRECCIÓN DE IP DE LA COMPUTADORA

La mayoría de los usuarios del RSU necesitaran configurar sus computadoras para recibir una dirección de IP automáticamente de su proveedor de servicio de Internet.

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for |

NOTA: Windows 95 requiere el componente de TCP/IP "winsock2", el cual no era incluido en versiones anteriores a Windows 95. Este componente se encuentra disponible en el LinkMonitor CD-ROM incluido en el paquete del RSU.

r usaender	Windows 2000	
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General	- Haga circ en el menu de micio , seleccione	

1. Asegúrese de que la computadora está apagada.

2. Conecte el cable de Ethernet a la computadora.

3. Encienda la computadora.

4. Cuando el RSU obtiene la comunicación a través del cable Ethernet con su computadora, las luces cesarán de parpadear y permanecerán encendidas.

Para Mayor Información

Para mayor información referente a la instalación del RSU, refiérase a la guía Expedience Módem Inalámbrico para acceso a Internet de Alta Velocidad, en el software CD-ROM. También puede referirse a esta guía si necesita conectar el RSU a aparatos de red, tales como un switch, un hub o un ruteador.

La unidad ha sido creada para ser suministrada por energía CN ITE LPS o suministro de energía Clase II con clasificación entre 12 y 19.5 V, 24 w mínima

INFORMACIÓN DE FCC

NOTA: Este equipo ha sido probado y se encontró que cumple con los límites de exposición a la Radiación de Radio-Frecuencia que se describen a continuación. Se debe conservar una distancia mínima de 20 centímetros (8) pulgadas entre el RSU, el operador y todas las demás personas.



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de Red y Acceso Telefónico.

- Haga clic derecho en la conexión que desea modificar; esta es, el nombre de su NIC.
- En la ventana menú que aparece, seleccione **Propiedades**
- En la ventana de Propiedades de Conexión del área local aparecerá una ventana, seleccione Internet.
- En la opción Protocolo (TCP/IP), haga clic en Propiedades
- Active el botón de Obtener automáticamente una dirección IP.
- Haga clic en **OK** y cierre el Panel de Control.
- Reinicie su computadora.

ndows XP

- Haga clic en el menú de Inicio, seleccione Configuración. Después seleccione Conexiones de Red.
- Haga clic derecho en la conexión que desea modificar esta es, el nombre de su NIC.
- En la ventana menú que aparece, seleccione Propiedades.
- En la ventana de Propiedades de Conexión del área local aparecerá una ventana, seleccione la opción Protocolo de Internet (TCP/IP), haga clic en **Propiedades**
- Active el botón de Obtener automáticamente una dirección IP.
- Haga clic en OK y cierre el Panel de Control.
- Reinicie su computadora.

/indows, refiérase al documento enviado con el sistema operativo para obtener la información de como configurar la computador para DHCP. Si Usted necesita utilizar una dirección estática de IP, refiérase a su proveedor de servicio para recibir instrucciones.

Installing and using the Expedience RSU wireless modem



Directions for connecting your RSU to a computer or LAN and obtaining high-speed Internet access.

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FOR WARRANTY INFORMATION ON THE EXPEDIENCE WIRELESS MODEM, CONTACT THE INTERNET SERVICE PROVIDER THAT SUPPLIED THE RSU.

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Welcome

This document describes how to install and use your Expedience residential subscriber unit (RSU) to obtain wireless high-speed Internet access. You can connect your RSU to a computer or to a small office/home office (SOHO) local area network (LAN) through a hub, switch, or router.

BEFORE YOU BEGIN

- Make sure your computer is equipped with an Ethernet network interface card (NIC).
 - The Ethernet cable that is supplied with your RSU plugs into any standard Ethernet NIC. The NIC is not provided with the RSU, but you can purchase a NIC at most computer and electronics stores.
- Find an appropriate location for your RSU.
 - Make sure you are operating the RSU in a room near an outside window on the first or second floor of your home or office.
 - You need to locate the RSU close to a wall outlet. The RSU uses a standard power supply and can sit on a desktop or shelf.
 - Your RSU comes with a category-5 Ethernet cable. If you choose to place the RSU a good distance from your computer, you may need to purchase a longer Ethernet cable.

If you purchase a cable, make sure the cable is a category-5 Ethernet cable with RJ-45 connectors on each end.

- Locate the components shipped with your RSU device:
 - RSU device
 - Software CD-ROM
 - RSU Quick Start Guide
 - Power cable and power supply box
 - Ethernet cable

Figure 1 illustrates the RSU package contents.





Table 1 lists the standard contents in your RSU package.

Table 1: RSU	package	componer	Its
--------------	---------	----------	-----

Component	Part number
RSU package (vertical polarization)	900-0015-1001
RSU device (vertical polarization)	127-0015-1001
Power supply cord	420-0015-1000
Power cord	597-5120-0107
Quick Start Guide	102-0015-0003
Installation software CD-ROM	110-0002-0001
Ethernet cable	597-6010-0001

Connecting your RSU to a computer

This section describes how to connect your RSU to a computer.

If you want to connect your RSU to a network device (such as a router or switch), refer to the section "Connecting the RSU to a network" on page 13, in this guide.

INSTALLATION OVERVIEW

The installation consists of the following major tasks, each of which is explained in greater detail in the sections that follow:

- 1 After ensuring your Ethernet NIC is installed properly, make sure your computer is set up to automatically obtain an IP address.
- 2 Plug in the RSU.
- 3 Find the strongest signal from your service provider.
- 4 If necessary, fine-tune the connection to your service provider.
- 5 Connect to the Internet.

1

SETTING UP THE COMPUTER TO DYNAMICALLY RECEIVE AN IP ADDRESS

Most RSU users need to set up their computer's operating system so that the computer can receive an IP address automatically from their service provider.

This section describes how to set up Windows 95, Windows NT, Windows 98, Windows ME, Windows 2000, and Windows XP. If you are operating a non-Windows operating system, check the system's help file. Most help files explain how to set up a system to dynamically receive an IP address.

If you need to use a static IP address, refer to instructions from your service provider.

WINDOWS 95, WINDOWS NT, WINDOWS 98, WINDOWS ME: SETTING UP THE NETWORK CONNECTION

- 1 From the Start menu, select Settings. Then select Control Panel.
- 2 In the window that appears, double click the **Network** icon.
- 3 Select the TCP/IP entry for the NIC.
- 4 Click **Properties**.
- 5 Select the **IP Address** tab.
- 6 Activate the Obtain an IP Address automatically radio button.
- 7 To close the windows, click **OK**.
- 8 Turn off your computer.

WINDOWS 2000: SETTING UP THE NETWORK CONNECTION

- 1 From the **Start** menu, select **Settings**. Then select **Network and Dial-up Connections**.
- 2 Right click the connection you want to alter; that is, the name of your NIC. From the popup menu, select **Properties**.
- 3 The Local Area Connection Properties window appears. Select the Internet Protocol (TCP/IP) item. Click Properties.
- 4 In the window that appears, activate the **Obtain an IP address automatically** radio button. To close the window, click **OK**. On the remaining open window, click **OK** again.
- 5 Turn off your computer.

WINDOWS XP: SETTING UP THE NETWORK CONNECTION

- 1. From the Start menu, select Settings. Then select Network Connections.
- 2. Right click the connection you want to alter; that is, the name of your NIC. From the popup menu, select **Properties**.
- 3. The Local Area Connection Properties window appears. Select the Internet Protocol (TCP/IP) item. Click Properties.
- 4. Activate the **Obtain an IP Address automatically** radio button.
- 5. Turn off your computer.

2

PLUGGING IN THE RSU

You can connect the RSU directly to a computer, or you can connect it to a small office/home office (SOHO) network.

- If you are directly connecting the RSU to your computer, complete the steps in this section.
- If you are connecting the RSU to a network, refer to the section "Connecting the RSU to a network" on page 13 in this guide.

To plug in the RSU:

- 1 On the side of the RSU, locate the Ethernet jack. Plug one end of the Ethernet cable into the Ethernet jack (Figure 2).
- 2 Connect the RSU's AC power cord to the power source, then plug the power cord into a wall outlet. Plug the power source cord into the side of your RSU (Figure 2).



Figure 2: Ethernet Jack Location on Side of RSU

3 Plug the power cord into a standard power supply. The lights on top of your RSU blink to indicate signal strength (Figure 3).



Figure 3: Indicator lights blinking: signal found

Note: If the RSU's lights blink in sequence (that is, chase each other), rather than blink simultaneously, the RSU cannot detect enough signal from your service provider to operate properly. You must adjust the RSU so that at least one light blinks. Step 3 on page 7 describes how to adjust the RSU.



Figure 4: Indicator lights blinking in sequence: no signal found

FINDING THE STRONGEST SERVICE PROVIDER SIGNAL

Your RSU is equipped with an internal directional antenna. To provide the best service, the RSU searches for the strongest signal transmitted by your service provider.

You can find the strongest signal from your service provider by using one of the following methods:

- Indicator light method (available for any operating system)
- Software-assisted method (available for Windows operating systems only)

Regardless of the method you use, you need to understand which sides of the RSU is the back side, which contains the antenna. The back side of the RSU is the side without a logo printed on it.

Figure 5 illustrates the RSU's back side.



Figure 5: RSU back

USING THE INDICATOR LIGHTS TO FIND THE STRONGEST SERVICE PROVIDER SIGNAL

You can find the strongest service provider signal by using the lights on top of the RSU (Figure 6). You can use this method regardless of the operating system your computer runs.



Figure 6: Location of lights on RSU

The indicator lights indicate the strength of the signal received while the RSU is in its current orientation. The stronger the signal, the more lights on the RSU blink on and off. The strongest signal may be indicated by one or two lights lit. Even though not all five lights are lit, this level of signal is strong enough for full-speed operation.

To use the lights to find the strongest service provider signal:

- 1 Before you begin, make sure:
 - Your computer is turned off.
 - The RSU's power cord is connected to the RSU and to a power source. If your RSU has power, the lights on the RSU blink on and off.
 - The Ethernet cable <u>is</u> connected to the RSU. The other end of the Ethernet cable <u>is not</u> connected to the computer.
- 2 Set your RSU on a table or shelf in the location you've chosen. The RSU must be in an upright position.
- 3 Point the back of the RSU directly toward the window.
- 4 Remove your hands from the RSU. Keep the RSU stationary, in this orientation, for about five seconds.

The blinking lights indicate the strength of the signal received. The stronger the signal, the more lights on the RSU blink on and off. Figure 7 illustrates blinking lights.



Figure 7: Indicator lights blinking simultaneously: signal found

- 5 Point the back of the RSU to the right of the starting position. Remove your hands from the RSU, and let it stand still for about five seconds.
- 6 Again, note how many lights are blinking while the RSU is in this orientation. The stronger the signal, the more lights on the RSU blink.
- 7 Point the back of the RSU to the left of the starting position. Remove your hands from the RSU, and let it stand still for about 5 seconds. Note how many lights blink while the RSU is in this orientation.
- 8 Remembering the strongest signal reported, re-orient the back of the RSU in the direction that the RSU was pointed when the strongest signal was found.
- 9 Plug the Ethernet cable into your computer. The other end of the cable should already be plugged into the RSU.
- 10 Turn on your computer. During power up, the lights on the RSU stop blinking, and are continuously lit.
- 11 After the lights stop blinking, observe the lights for about 30 to 90 seconds. Make sure the same number (or more) of indicator lights stay on.
 - If the same number or more lights are on, you are ready to use your high-speed Internet connection.
 - If fewer lights are on, complete the fine tuning steps described in the section, "Fine-tuning the connection to the service provider" on page 12.

USING THE SOFTWARE-ASSISTED METHOD TO FIND THE STRONGEST SIGNAL

Note: The software-assisted method is available only to users who use Windows (versions later than 3.11) as their operating system.

To use the software program to help you search for the strongest service provider signal in your area:

- 1 Install and start the LinkMonitorTM program.
- 2 Find the strongest service provider signal.

Each task is explained in greater detail in the sections that follow.

Installing and starting the LinkMonitor program

- 1 If your computer is not powered on, power it now.
- 2 Make sure the Ethernet cable and power cable are connected to the RSU.
- 3 Plug the other end of the Ethernet cable into your computer.
- 4 Locate the software CD supplied with your RSU.
- 5 Insert the CD into your computer's CD drive. If the installation program does not start automatically, start it by clicking on the Setup.exe icon.

Follow the instructions in the dialog boxes to complete the installation of the LinkMonitor program.

6 After the software is installed, a blue RSU icon appears in your system tray (Figure 8).

To run the LinkMonitor program, right click on the icon, and select **Open**.



Figure 8: Starting the LinkMonitor program

7 The Expedience LinkMonitor window appears (Figure 9).

nection Modem Loc	al Net Config Advanced
Channel Score	Connection Information Mode: Channel: Base ID: Range Limit: 0 - 16 km
Current Score: 0 Best Score: 0	Start Scan Stop Scan

Figure 9: Expedience LinkMonitor window

Finding the strongest service provider signal

During this procedure, point the back of the RSU directly toward an outside window. Then, point the back of the RSU to the right of the starting position, and then to the left of the starting position.

At these three points, briefly stop the movement of the RSU and note the strength of the signal from your Internet service provider, as indicated by the score that the software program reports.

Before you begin, ensure your RSU is sitting on a table or shelf, in the location you've chosen.

1 Point the back of the RSU toward the window. Remove your hands from the RSU.

Back at your computer program, click **Start Scan**. Let the RSU sit stationary for about five seconds.

- 2 The program searches for a signal from your service provider. In the **Channel Score** group, the strength of the signal received at the starting position is indicated in two ways:
 - The indicator bar shows a green bar, whose height increases in proportion to the strength of the signal detected.
 - The **Current Score** field shows the signal strength. During this procedure, the program compares the Current Score to the **Best Score**. Best Score indicates the strongest signal the program has ever seen during the scanning procedure.
- 3 After about five seconds, point the back of the RSU to the right of the starting position.
- 4 Remove your hands from the RSU and make sure the RSU is stationary.

The software program determines and reports the strength of the signal that the RSU receives while the RSU is in its current orientation.

- 5 After about five seconds, note the strength of the signal received at its current position.
- 6 Point the back of the RSU to the left of the starting position.

7 Remove your hands from the RSU and make sure the RSU is stationary.

The program determines and reports the strength of the signal that the RSU receives while the RSU is in its current orientation.

- 8 Remembering the strongest signal reported, re-orient the back of the RSU in the direction that the RSU was pointed when the strongest signal was found.
- 9 After about five seconds, click **Stop Scan**. The lights on the RSU stop blinking and become continuously lit.
- 10 After the lights stop blinking, observe the lights for about 30 to 90 seconds. Make sure the same number (or more) of indicator lights stays on.
 - If the same number or more lights are on, you are ready to use your high-speed Internet connection.
 - If fewer lights are on, complete the fine tuning steps described in the section, "Fine-tuning the connection to the service provider" on page 12 in this guide.

You only need to re-run the LinkMonitor program and repeat the scan when you power down your RSU <u>and</u> move it.

4

FINE-TUNING THE CONNECTION TO THE SERVICE PROVIDER

After performing initial setup, most users will be able to operate their RSU without further finetuning.

However, if you notice fewer lights on the RSU are lit after 30 to 90 seconds of use, fine tune the connection to the service provider. The fine-tune procedure ensures the signal received from the service provider is strong (as indicated by the number of lights lit) and high-quality (as indicated by the number of lights lit over time.)

- 1 Unplug the Ethernet cable from the computer.
- 2 The current position of your RSU is its starting point. Point the RSU slightly to the left of its starting point. Note the number of indicator lights that blink.
- 3 Point the RSU slightly to the right of its starting point. Note the number of indicator lights that blink.
- 4 Point the RSU toward the direction it was facing—either to the left or to the right of the starting point—when the most lights were blinking.
- 5 Plug the Ethernet cable back into the computer.
- 6 Refresh your IP address by performing the procedure described in the section "Renewing the host computer's IP address" on page 13.

CONNECTING TO THE INTERNET

After completing steps 1 through 4, you should be able to connect to the Internet.

1 Start your Internet browser, and try to open a few Internet sites.

- If you can open numerous sites, enjoy your new, high-speed service.
- If you cannot open any sites—for example, if your browser displays a message "This page cannot be displayed" for all the sites you tried to access—refresh the RSU's connection, as described in the section "Renewing the host computer's IP address" on page 13 in this guide.

5

Renewing the host computer's IP address

When you renew the host computer's IP address, your service provider is assigning your computer a new IP address by using the Dynamic Host Configuration Protocol (DHCP).

The host computer's IP address is renewed when you restart the computer.

You need to renew your computer's IP address if your Internet browser does not let you open any Internet sites or if you needed to perform the fine-tuning procedure as described in the section "Fine-tuning the connection to the service provider" on page 12.

WINDOWS USERS: RENEWING THE IP ADDRESS

The host computer's IP address is renewed when you restart the computer. To refresh the connection without restarting the computer:

- 1 Make sure you have installed the LinkMonitor program.
- 2 In the system tray, right click the blue RSU icon (Figure 13) and select Open.
- 3 In the window that appears, on the Local Net Config tab, click the Renew IP Address button.

Note: Windows users can also go to a DOS prompt and use the command **ipconfig** /**renew** to renew the DHCP address.

NON-WINDOWS USERS: RENEWING THE IP ADDRESS

If you do not run the Windows operating system, you can reboot your computer to refresh the connection. You may want to refer to your operating system's help files to determine if other methods exist to refresh the connection (that is, to find a method for refreshing the IP address).

Connecting the RSU to a network

Note: Plan to use <u>only one</u> RSU on a network. Do <u>not</u> use multiple RSUs on the same network.

To directly connect the RSU to a computer, use the supplied Ethernet cable (also known as a straight-through cable).

However, to connect the RSU to a hub or switch, use an Ethernet cable appropriate for your network device. This might be a straight through or cross-over cable, depending on how your network device switches signals. When determining how to set up your network, remember that the RSU device operates as a hub or a bridge.

After connecting the RSU to the network device, power the RSU and scan for a service provider signal, as described in earlier sections of this guide.

Troubleshooting

This section describes possible issues with RSU installation and how to resolve the issues if you encounter them.

THE **RSU** CAN SUCCESSFULLY RECEIVE A SIGNAL AT HOME, BUT NOT AT WORK OR AT A FRIEND'S HOUSE

You need to repeat the search for a service provider signal each time you power down your RSU and move it.

If you have not repeated the signal search, repeat the steps described in the section "Finding the strongest service provider signal" on page 7 in this guide.

If this does not solve the problem, check with your service provider to make sure they offer service to the geographic location where you are running the RSU.

THE **RSU** CANNOT RECEIVE YOUR SERVICE PROVIDER'S SIGNAL

Most users can receive a signal from their service provider when they operate their RSU near an outside window, on the first or second floor of their home or office.

However, you may need to run the signal scan in more than one location in your home or office to get a signal.

If you performed the signal scan in two or three locations in your home or office, but did not receive a signal, contact the electronics or computer store where you purchased the RSU, or contact your service provider.

THE RSU'S LIGHTS BLINK IN SEQUENCE

If your RSU is unable to find a service provider signal, the lights on your RSU don't blink simultaneously, but rather they blink in sequence, with a light blinking on as the previous light blinks off.

Figure 10 illustrates lights blinking in sequence.



Figure 10: Indicator lights chasing: no signal found

If you have tried to use your RSU in several locations within your home or office—without being able to receive a signal— contact your service provider for further information about connecting.

YOU SUCCESSFULLY COMPLETED THE SIGNAL SCAN, BUT YOUR INTERNET BROWSER CANNOT CONNECT TO A WEB SITE

If you tried to connect to only one Internet address, try to connect to a few more. It is important to try a few different Internet addresses because the single site you were unable to reach may indicate that the site is out of service, not that the RSU is malfunctioning.

However, if you tried to reach a few sites without success, you may need to refresh your RSU's connection with your service provider.

When your RSU first connects with your service provider's equipment, your computer is assigned an IP address. This IP address ensures that the Internet information you request can reach your computer and your Internet browser.

If your Internet browser cannot open any sites:

- 1 Make sure your computer is set up to automatically receive an IP address, as described in the section, "Setting up the computer to dynamically receive an IP address" on page 3.
- 2 Refresh the connection with your service provider by performing one of the following:
 - If you are a Windows user, open the LinkMonitor program. Click the **Renew IP Address** button.
 - If you are using a non-Windows operating system, reboot your computer.
- 3 Try opening a few web sites with your Internet browser.

THE LIGHTS ON THE RSU BLINK MORE SLOWLY THAN NORMAL

When your RSU searches for a service provider signal, the lights on the RSU blink on and off rapidly. If you notice the RSU's lights blinking more slowly than usual, this usually indicates that your RSU is trying to register with your service provider.

During registration, your service provider may be checking records to indicate that you are a valid user of the service provider's system. In most cases, the registration process happens so quickly you hardly notice a change in the blink rate of the lights on your RSU.

However, if the lights blink slowly for an extended time (more than 30 seconds):

- 1 Force your RSU to scan for another signal by unplugging the Ethernet cable from the computer RSU or by using the LinkMonitor application's **Start Scan** button.
- 2 Repeat the procedure described in the section "Using the indicator lights to find the strongest service provider signal" on page 8.

At the end of this procedure, you should have plugged the Ethernet cable back in.

- 3 Perform one of the following:
 - If your RSU successfully registers, as indicated by continuously lit lights, you can use your connection.
 - If the lights on your RSU continue to slowly blink on and off, contact your service provider.

You receive a dialog box indicating that you cannot connect to your service provider

When you try to connect with your service provider, you may receive a message on your computer indicating that you cannot connect at this time.

You may receive this message for any number of reasons, such as the service provider's equipment may be malfunctioning, your RSU is malfunctioning, or your service provider is still processing your payment or identification records.

If you receive such a message:

- 1 Make a note of the message's contents and any error number that appears.
- 2 Contact your service provider with this information. They should be able to resolve the problem for you.

LINKMONITOR APPLICATION CANNOT COMMUNICATE WITH RSU WHEN VPN IS USED

When using a virtual private network (VPN), you may receive a message indicating that the LinkMonitor application cannot communicate with the RSU. Some configurations of VPN prevent communication between the application and the RSU.

To successfully use the LinkMonitor application, disconnect from the VPN.

RSU MALFUNCTIONS AFTER YOU WRITE ON THE **RSU** OR ATTACH STICKERS TO THE **RSU**

Do not write on the RSU or attach stickers to the RSU. Doing so may interfere with the Internet signal, causing your RSU to malfunction.

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FCC INFORMATION

NOTICE: This equipment has been tested and found to comply with the Radio Frequency Radiation Exposure Limits detailed below. A minimum of 20 centimeters (8 inches) separation between the RSU and the operator and all other persons should be maintained.

Declaration of Conformity Compliance Information

Class B computer peripheral.

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.

Responsible Party:NextNet Wireless, Inc. 9555 James Ave. South Suite 270 Bloomington, MN 55431 952-929-4008

Radio Frequency Radiation Exposure Limits

Table 2 Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)		
(A) Limits for Occupational/Controlled Exposures						
0.3-3.0	614	1.63	*(100)	6		
3.0-30	1842/f	4.89/f	*(900/f ²)	6		
30-300	61.4	0.163	1.0	6		
300-1500	_	_	f/300	6		
1500-100,000	_	_	5	6		
	(B) Limits for Gene	ral Population/Uncontrolled	Exposure			
0.3-1.34	614	1.63	*(100)	30		
1.34-30	824/f	2.19/f	*(180/f ²)	30		
30-300	27.5	0.073	.2	30		
300-1500	_	_	f/1500	30		
1500-100,000	_	_	1.0	30		

f = frequency in MHz

* = Plane-wave equivalent power density

NOTE 1 to Table 2: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 to Table 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Note: 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 or more 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.

Note: Modification of this device may void the user's authority to operate the equipment.

Table 3 Technical information

Transmitting power	Up to 2 watts
Operating voltage	120 VAC nominal
Frequency band	2500 - 2686 MHz TX/RX
Frequency stability	±10 ppm
Number of channels	31
Channel bandwidth	6 MHz
Modulation	Orthogonal frequency division multiplex
Transmission	Time division duplex/time division multiplex

The device is intended to be powered by Listed/CN ITE LPS or Class II power supply with output rated between 13 and 19.5 V dc, 1.65 A minimum.

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