

# **Ripwave<sup>™</sup> Modem User Guide**

# For use with all Ripwave Modem models



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Proprietary

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# Safety

When using Navini Ripwave electronic equipment, always follow basic safety precautions to reduce the risk of electrical shock, fire, and injury to people and/or property. Follow all warnings and instructions that come with the equipment.

- 1. Do not use the equipment while you are in a bathtub, shower, pool, or spa. Exposure of the equipment to water could cause severe electrical shock or serious damage to the equipment.
- 2. Do not immerse the equipment in any type of liquid. Use a damp clothe and if needed, water and a mild detergent to clean the plastic shell. Unplug the equipment from the power source before cleaning.
- 3. Follow all airport and FAA regulations when using the equipment on or near aircraft.
- Only operate the equipment from the type of power source(s) indicated in this manual (110/220 VAC, 60/50 Hz adapter or Navini supplied battery). Any other type of input power source may cause damage to the equipment.
- 5. Power the equipment using only the battery or the AC adapter cable provided, and in accordance with the instructions specified in the user manual.
- 6. Do not use a frayed or damaged power cord. Do not place the power cord where it can be stepped on or tripped over.
- 7. Do not touch wires where the insulation is frayed or worn unless the equipment has been disconnected from its power source.
- 8. Do not overload wall outlets, power strips, or extension cords. This can cause serious electrical shock or fire.
- 9. Do not place the equipment on an unstable surface. It can fall and cause injury or damage to the equipment.
- 10. Do not disassemble the equipment. Removing covers exposes dangerous voltages or other risks and also voids the warranty. Incorrect reassembly can cause equipment damage or electrical shock. Only an authorized repair technician should service this product.
- 11. Do not expose the equipment to extreme hot or cold temperatures.
- 12. Do not use the equipment under the following conditions:
  - When the equipment has been exposed to water or moisture.
  - When the equipment has been damaged.
  - When the power cord is damaged or frayed.
  - When the equipment does not operate properly or shows a distinct change in performance.

# **Regulatory Information**

# **FCC** Notice

**CAUTION**: This device is a Radio Frequency transmitter. It is required to comply with FCC RF exposure requirements for transmitting devices. A minimum separation distance of 8 inches (20 cm) or more must be maintained between the antenna and all persons during device operations to ensure compliance with the FCC's rules for Radio Frequency Exposure. If this minimum distance cannot be maintained, exposure to RF levels that exceed the FCC's limits may result.

### FCC Compliance and Advisory Statement

Tested To Comply With FCC Standards FOR HOME OR OFFICE USE

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. The 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.

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 or 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:

- 1) Reorient or relocate the receiving antenna,
- 2) Increase the separation between the equipment and the receiver,
- 3) Connect the equipment to an outlet on a circuit that is different from the one to which the receiver is connected,
- 4) Consult the dealer or an experienced radio/TV technician for additional suggestions.

### **INFORMATION TO USER**

This device has been authorized as a radio frequency transmitter under the appropriate rules of the Federal Communications Commission. Any changes or modifications not expressly approved by Navini Networks could void the user's authority to operate the equipment.

# **Battery Precautions**

**CAUTION!** To reduce risk of injury or fire, follow these instructions when handling the battery.

- 1. Risk of explosion is possible if the battery is replaced with one not supplied by Navini Networks.
- 2. Do not dispose of the battery in a fire. They may explode. Check with the local codes for battery disposal guidelines.
- 3. Do not open or mutilate the battery. The battery contains substances that are toxic, corrosive, or harmful to humans. If battery substances come in contact with the skin, seek medical help immediately.
- 4. Do not attempt to recharge the battery by any means except per the instructions in this manual.
- 5. Remove the battery from the equipment if the equipment is not going to be used for a long period of time. The battery could leak and cause damage to the equipment.
- 6. Exercise care when handling the battery to prevent shorting the battery with conducting materials such as bracelets, rings, and keys.
- 7. Store the battery pack in a dry place, 0 to +40 degrees Celsius.
- 8. Dispose of used batteries according to environmental guidelines.

Introduction	Congratulations! The Ripwave <sup>™</sup> Modem is a user-friendly, easy-to- install device that helps you connect wirelessly to the Internet. It provides complete broadband Internet access to residential and small office/home office (SOHO) customers without the necessity of professional hardware installation. The Ripwave Modem also provides nomadic service availability as a computer with this device is moved from room to room, location to location, or even city to city as long as there is coverage in the area.			
Package	Please verify the contents of your Ripwave Modem package. If you			
Inventory	do not find all of these items in your package, notify the supplier			
	from whom you obtained it.			
	<ul><li>Ripwave Modem</li><li>Ripwave Modem AC power adapter</li></ul>			
	<ul> <li>PC-to-Ripwave Modem cable (USB or Ethernet straight cable)</li> </ul>			
	Ripwave Modem User Guide (on CD)			
	Ripwave Modem Quick Installation Guide			
	Ripwave Monitor Installation CD			
<b>Ripwave Models</b>	Your Ripwave Modem will operate in either the 2.3 GHz, 2.4 GHz, 2.5 GHz, 2.6 GHz, 3.4 GHz, or 3.5 GHz range. Within each frequency range there are several model types, described on the next page. The 2.4 GHz Modem varies slightly in appearance.			
	2.4 GHz LED       2.4 & 3.5 GHz       2.3, 2.5, 2.6, 3.4 & 3.5         Modem       L CD Modem       GHz Modem			
	Modem LCD Modem GHz Modem			



Also, in Release 4.0, the 2.4 GHz Modem is available in both an LED and LCD version. In the future, an LCD version of the Modem will be available for the 2.5, 2.6 and 3.5 GHz Modems.

Operating	
Frequencies	,

Modem	Model	Frequency Range	Operating Band
2.3 GHz	2300E/U	2.305 GHz to 2.385 GHz	WCS+
2.4 GHz	2400 E/U	2.400 GHz - 2.480 GHz	ISM
2.5 GHz	2500 E/U	2.500 GHz - 2.596 GHz	MMDS/ITFS
2.6 GHz	2600 E/U	2.596 GHz – 2.686 GHz	MMDS/ITFS
3.4 GHz	3400 E/U	3.410 GHz – 3.525 GHz	BWA/FWA
3.5 GHz	3500 E/U	3.500 GHz – 3.600 GHz	BWA/FWA

The "E" in the model name stands for Ethernet, and the "U" in the model name stands for Universal Serial Bus (USB). Your computer will have one of these two types of ports for connecting the Modem.

## Computer Connections

• An **Ethernet** connection will function with any Win32 Operating System (Windows<sup>®</sup> 95 or later).



• A **USB** connection will function only with Windows 98, Windows 98SE, Windows 2000, Windows ME, or Windows XP. It will not work with Windows 95 or Windows NT.



You must have the Ripwave Modem model with the appropriate connection for your computer port.

# Minimum Computing Requirements

(See, also, Addendum 1)

Operating	<b>Ethernet Modems</b> : Any Win32 <sup>®</sup> Operating System		
System <sup>1</sup> :	(OS) - Windows <sup>®</sup> 95, Windows 98 <sup>2</sup> , Windows		
	98SE <sup>2</sup> , Windows 2000, Windows ME <sup>2</sup> , Windows		
	XP, or later version. Windows XP must be Service		
	Pack Level 1 or higher. Internet Explorer 3.0 or		
	higher is required for installation on Windows 95		
	Operating Systems. <sup>3</sup>		
	<b>USB Modems</b> : Windows <sup>®</sup> 98 <sup>2</sup> , Windows 98SE <sup>2</sup> ,		
	Windows 2000, Windows $ME^2$ , Windows XP,		
	or later version. USB will not work with Windows		
	95 or Windows NT. Windows XP must be Service		
	Pack Level 1 or higher. <sup>3</sup>		
	General Information:		
	<ul> <li>Ensure that the pc network port is enabled.</li> </ul>		
	<ul> <li>MacIntosh systems and Lynx/Unix systems are</li> </ul>		
	not supported.		
CPU:	Pentium level or higher		
RAM:	32 MB or the Operating System minimum,		
	whichever is greater		
Hard Drive:	10 MB free disk space for Navini Monitor software		
Monitor:	256 colors, 800 x 600 resolution		

<sup>1</sup>NOTE: If you are going to upgrade your Operating System after loading the Navini Monitor or Navini Diagnostics software, you must first uninstall Navini Monitor or Navini Diagnostics prior to upgrading the OS. Otherwise, the Navini Monitor or Navini Diagnostics will not work. See Uninstall instructions in this Guide.

<sup>2</sup>NOTE: The Ripwave Modem must be left powered ON whenever you shut down or restart any Windows 98 or ME platforms. If the Modem is off, a blue screen appears on the monitor. In the event that happens you will most likely have to power cycle the PC.

<sup>3</sup>NOTE: Navini Diagnostics Tool software is supported on Win98, Win98SE, Win2000, WinME, WinXP or higher, Mac X or higher, or Red Hat Linux 8.0 or higher.

The Ripwave Modem installation sections include instructions for both Ethernet and USB connections. Be sure to use the instructions that apply to your Ripwave model. The Navini Monitor software installation procedure is the same for any of the Ripwave models.

This manual will guide you through the simple process of installing the Ripwave Modem and software, which has been developed to optimize the ease and convenience for you, our valued customer. The 2.6 GHz model is used in most of the illustrations in this manual where there are no differences in the 2.3, 2.4, 2.5, 2.6, 3.4 & 3.5 GHz models. If you experience any difficulties with your unit, please contact your Service Provider or the vendor from whom you obtained your Ripwave Modem.

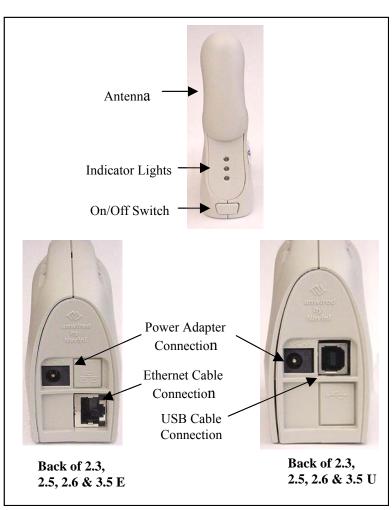
# Physical Characteristics

The 2.4 GHz Ripwave Modem varies in some aspects from the 2.3, 2.5, 2.6, 3.4 and 3.5 Modems. As well, the Ethernet connection on any model varies from a USB connection. Notice the differences highlighted in the photos below and on the following page.

# <complex-block><complex-block><complex-block><complex-block>

### 2.4 GHz LED Ripwave Modem

Physical Characteristics, Continued



2.3, 2.5, 2.6, & 3.5 GHz LED Ripwave Modems

# Installing an Ethernet Modem

(See, also, Addendum 1)

The following instructions are for the installation of a Ripwave Modem that has a USB connection. Please read all instructions before attempting the installation. It is advisable to turn off the computer and the Ripwave Modem before performing the installation.

Step	Action	Illustration (using LED Modem)
1.	Connect the Ethernet cable to the Ethernet port on the computer.	
2.	Connect the other end of the Ethernet cable to the Ripwave Modem.	Ethernet
3.	Connect the AC power adapter to the Ripwave Modem. Plug the other end into a 110/220 VAC 60/50 Hz outlet. <b>CAUTION!</b> Only use the AC power adapter specifically supplied with the Ripwave Modem. Using any other adapter may cause damage to the Modem.	AC Power adapter cable jack

Installing an Ethernet Modem, continued

Step	Action	Illustration (using LED Modem)
4.	Rotate the antenna on the Ripwave Modem clockwise 180 degrees to the UP position. This reveals the Ripwave Modem indicator lights. <b>CAUTION!</b> Rotation or movement of the antenna in any other direction may cause damage to the Ripwave Modem.	Antenna Signal Strength Indicator (SSI) Battery Indicator Power Indicator
5.	Turn the Modem ON. On the 2.4 GHz modem, do this by flipping the On/Off switch to the up position. On all other models, push the On/Off button in.	2.3, 2.5, 2.6, 2.4 GHz On/Off Switch
6.	If the green Power LED lights, proceed to Step 7. (On an LCD Modem, the display turns on.) If not, there is a problem with the Modem or the AC power adapter. Check all cables for proper connection. If there is still a problem, contact the supplier who gave you the package.	Power Indicator

Installing an Ethernet Modem, continued

Step	Action	Illustration
7.	Turn your computer on	
	and log in.	
8.	Proceed to the	
	"Troubleshooting /	
	Installing Navini	
	Monitor" section of this	
	manual.	

# Installing a USB Modem

(See, also, Addendum 1)

The following instructions are for the installation of a Ripwave Modem that has a USB connection. Please read all instructions before attempting the installation. It is advisable to turn off the computer and the Ripwave Modem before performing the installation.

Step	Action	Illustration (using LED Modem)
1.	Connect the USB cable to the USB port on the computer.	
2.	Connect the other end of the USB cable to the back of the Ripwave Modem.	USB Port
3.	Connect the AC power adapter cable to the back of the Ripwave Modem. Plug the other end of the cable into a 110/220 VAC, 60/50 Hz outlet. <b>CAUTION!</b> Only use the AC power adapter specifically supplied with the Ripwave Modem. Using any other adapter may cause damage to the Modem.	AC Power adapter cable jack

Installing a USB Modem,	Step	Action	Illustration (using LED Modem)
continued	4.	Rotate the antenna on the Ripwave Modem 180 degrees to the UP position. This reveals the Modem's indicator lights. <b>CAUTION!</b> Rotation of the antenna in any other direction may cause damage to the Modem.	Antenna Antenna Signal Strength Indicator (SSI) Battery Indicator Power Indicator
	5.	Turn the Modem ON. On the 2.4 GHz modem, do this by flipping the On/Off switch to the up position. On all other models, push the On/Off button in.	2.4 GHz 2.3, 2.5, 2.6 & 3.5 GHz On/Off Switch
	6.	If the green Power LED lights, proceed to Step 7. (On an LCD Modem, the display turns on.) If not, there is a problem with the Modem or the AC Power Adapter. Check all cables for proper connection. If there is still a problem, contact the supplier who gave you the package.	Power Indicator

Installing a USB Modem,	Step	Action	Illustration
Continued	7.	Turn your computer ON and log in.	
	<b></b>	NOTE: For Windows 2000, you must be logged into an account having Administrative privileges to install the Ripwave Modem and its software.	
	8.	<ul> <li>Plug-and-Play will detect the Ripwave device now attached to the computer, and it will launch the Plug-and- Play application.</li> <li>If this does not happen, the problem may be due to one of the following:</li> <li>Windows NT and Windows 95 do not support a USB device.</li> <li>The Modem is not turned on.</li> <li>The Modem is not connected properly to the computer.</li> <li>The Add New Hardware Wizard dialog box appears. Click Next to continue.</li> </ul>	Add New Hardware Wizard         This wizard searches for new drivers for:         Navini Networks Wireless Modem         A device driver is a software program that makes a hardware device work.         A device driver is a software program that makes a hardware device work.
			Cancel

Installing a USB Modem,	Step	Action	Illustration
Continued	10.	Insert the Ripwave Installation CD into the computer's CD-ROM drive.	
	11.	Select the 'Search for the best driver for your device' option. Click <b>Next</b> to continue.	Add New Hardware Wizard         What do you want Windows to do?         Search for the best driver for your device.         (Recommended).         Display a list of all the drivers in a specific location, so you can select the driver you want.         (Back       Next >
	12.	Select the 'CD-ROM drive' checkbox. Click <b>Next</b> to continue.	Add New Hardware Wizard         Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.            Eloppy disk drives             CD-RDM drive             Microsoft Windows Ulpdate             Specify a Jocation:             Browse
	13.	Confirm that the drive location is correct (it may be different than the one shown in the illustration). The file to be installed should say 'NETNNUSB.INF". Click <b>Next</b> to continue.	Add New Hardware Wizard         Windows driver file search for the device:         Navini Networks Wireless Network Adapter         Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.         Location of driver:         Image: E:NETINNUSB.INF

Installing a USB Modem,	Step	Action	Illustration
Continued	14.	ActionWindows will finishinstalling the softwarefiles required for theRipwave Modemoperation. Click Finish.NOTE: For Window 98,a window may appearasking for drivers to beinstalled from theWindows 98 setup disk.If so, insert theWindows 98 setup diskinto the CD-ROM driveat this time and acceptthe defaults.After clicking Finish,the System SettingsChange window appearsasking if you want to	Add New Hardware Wizard         Important of the software with the software with the software that your new hardware device requires.         Windows has finished installing the software that your new hardware device requires.         Important of the software that your new hardware device requires.         Important of the software that your new hardware device requires.         Important of the software that your new hardware device requires.         Important of the software that your new hardware device requires.         Important of the software that your new hardware, you must restart your computer.         Important of the software that your new hardware, you must restart your computer.         Important of the software that your new hardware, you must restart your computer.         Important of the software that your new hardware.         Important of the software that your computer new?
	16.	restart your computer now. Click <b>Yes</b> . You must restart your computer at this point before proceeding. After the computer restart is complete, proceed to the "Troubleshooting / Installing Navini Monitor" section of this manual.	<u>Yes</u> <u>No</u>

# Accessing the Internet

With your Modem now installed, and both the Modem and computer powered on, you should be able to surf the Internet! To access the Internet, open the web browser that is installed on your computer.

# Troubleshooting

Indicator Lights or

LCD Display

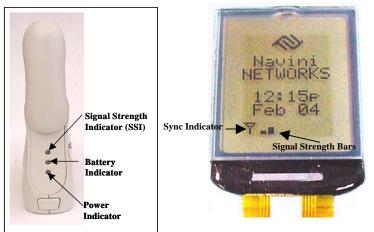
After installation, if you are experiencing difficulties with your Internet connection, please review the Minimum Computing Requirements and Addendum 1 to ensure your computer meets those requirements. Next, go back over the installation procedures and ensure those steps were completed properly.

Assuming the computer requirements are met and the installation steps were completed as required, you will need to observe the light indicators on the front of the Modem. You also may need to install the monitoring software. This software is provided on a CD that came in your Modem package. Navini offers two types of monitoring software. The first type, called the Navini Ripwave Monitor, is available with Ripwave Modems that have a software release *prior* to release 4.0. The second type, called the Navini Diagnostics Tool, is available with Ripwave Modems that have a software release of 4.0 or greater.

The Navini Monitor and Navini Diagnostics software assists in solving connection problems as well as providing information about the battery power in cases where batteries are used. Batteries are optional with some Ripwave LED Modems.

The indicator lights on the front of the LED Modem provide valuable information about its operation. They change appearance to designate the state of the items that they represent. Used in conjunction with the monitoring software, you can troubleshoot signal issues, network connections, and power problems.

The LCD Display performs the same function as the indicator lights. However, instead of using colored lights, it provides a written message and symbols within the display.



# Indicator Lights or LCD Display, Continued

LED Indicator Lights:				
Signal Strength Ir	Signal Strength Indicator (SSI) Light			
Constant Green:	Strong signal			
Constant Yellow:	Medium signal			
Constant Red:	Weak signal			
Flashing Red:	No signal			
Battery Indicator	Light			
Constant Yellow:	Battery is charging			
Constant Red:	Battery is less than 20% charged			
Flashing Red:	Battery is less than 10% charged			
Off:	Battery is fully charged or not installed			
Power Indicator Light				
Constant Green:	The Modem is ON (AC or DC power)			

LCD Display Symbols		
Sync Indicator	Antenna symbol appears when the Modem is in sync and sync strength = $-110$ dBm.	
Signal Strength Bars	1 bar means signal strength $> -110$ dBm and $\le -90$ dBm 2 bars mean signal strength $> -90$ dBm and $\le -80$ dBm 3 bars mean signal strength $> -80$ dBm and $\le -70$ dBm 4 bars mean signal strength $> -70$ dBm	

# Installing Ripwave Monitor

Navini's monitoring software (Ripwave Monitor or Navini Diagnostics) provides two types of information: signal strength and quality of the incoming signal. It also can provide information about the connectivity to the Service Provider's network. These displays may be required when troubleshooting Modem problems.

The next few sections will discuss how to install, troubleshoot with, and uninstall your Ripwave Monitor software. If your Ripwave Modem has a software release of 4.0 or greater, you do not have the Ripwave Monitor. You have the Navini Diagnostics software. You should refer to the sections that discuss how to install, troubleshoot with, and uninstall your Navini Diagnostics software.

Before you install your Ripwave Monitor software, please note:

- For Windows NT and Windows 2000 you must log into an account having Administrative privileges in order to install the Navini Monitor software.
- For Windows 95, 98, and 98SE Operating Systems (OS), the OS CD may be required to complete this installation. If prompted, insert the OS CD into the CD-ROM drive and accept the defaults.

.

Installing Ripwave Monitor, Continued • After the Ripwave Monitor software is loaded, if you must upgrade your PC OS, first uninstall Ripwave Monitor *prior* to upgrading the OS. Otherwise, Ripwave Monitor will not work. See Uninstall instructions in this Guide.

Step	Action	Illustration
1.	Shut down all programs, including anti-virus software programs, before installing the Ripwave Monitor software.	
2.	Insert the Ripwave Monitor Installation CD into the CD-ROM drive.	
3.	At the bottom left-hand corner of your screen, click <b>Start &gt; Run</b> . In the Run window, enter <b>e:\setup</b> in the Open field (where "e" represents the CD drive). Use whatever letter represents your CD drive. Click <b>OK</b> to	Run       ? X         Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.         Open:       e:\setup         Run in separate memory space         OK       Cancel         Browse
4.	continue. The InstallAnywhere window appears. The progress bar indicates that InstallAnywhere has initialized.	InstallAnywhere InstallAnywhere is preparing to install 51% Created with InstallAnywhere. © 1998-2001 Zero G Software, Inc. www.ZeroG.com
5.	The Ripwave Monitor Introduction screen appears. Click <b>Next</b> to continue.	Repwave Monitor     Introduction     Instal/Anywhere will guide you through the installation of the Ripwave     Monitor.     It is stongly recommended that you guit all programs before     Introduction     It is stongly recommended that you guit all programs will cause the     installation of the Ripwave Monitor to fail.     Piease note that some virus scanning programs will cause the     installation of the Ripwave Monitor to fail.     Click the Next button to proceed to the next screen. If you want to     change something on a previous screen, click the Prevous's button.     You may cancel this installation at any time by clicking the 'Cancel'     button.

Installing Ripwave Monitor, continued

Step	Action	Illustration
6.	The License Agreement screen appears. Read the Licensing Agreement. Select the <b>I Accept</b> option, and click <b>Next</b> to continue. NOTE: If the License Agreement is not accepted, you cannot install the software.	Eligwave Monitor     License Agreement     License Agreement     Installation and Use of the Rywave Monitor Requires Acceptance of     the following License Agreement:     License Agreement     Installation and Use of the Rywave Monitor Requires Acceptance of     the User License Agreement:     Installation and Use of the Rywave Monitor Requires Acceptance     Installation and Use of the Rywave Monitor Requires Acceptance     Installation and Use of the Rywave Monitor Requires Acceptance     Installation and Use of the Rywave Monitor Requires     Installation and Use of the Userse Agreement     Installation Example of the Userse Agreement     Installation Example of the Userse Agreement     Installation Installation Installation Installation     Installation Installation Installation     Installation Installation Installation     Installation Installation     Installation Installation     Installation Installatin     Installation Installation     Installation Installation
7.	The Ripwave Positioning screen appears. Read the screen for positioning the Ripwave Modem for optimum performance. Click <b>Next</b> to continue.	Ripwave Monitor       Image: Control of Contof Control of C
8.	The Choose Install Folder screen appears. Enter the name of the folder where you wish to install the software. Click <b>Next</b> to continue. The default installation folder provided by the software is shown in the illustration.	Ripwave Montor       Choose Install Folder         Where Would You Like to Install?       O'Program FilestNavini Ripwave Monitor         Program FilestNavini Ripwave Monitor       Restore Default Folder         Choose       Restore Default Folder         Install/Anywhere by Zerio /e       Next

Installing Ripwave	
Monitor, continued	

Step	Action	Illustration
9.	The Pre-Installation Summary screen appears. Review the contents for accuracy. Click <b>Install</b> to continue. For your installation and computer, this screen may have different information than what is shown in the illustration.	Previous Monitor         Pre-Installation Summary         Product Name:         Product Name:         Product Name:         Product Name:         C Program Files/Navini Ripwave Monitor         Install Folder:         C WINNTProfiles/Verprofiles/Ve
10.	The Installing screen will display as the application files are loaded.	Ripwave Monitor
11	At the Install Complete screen, click <b>Done</b> to close the window.	Install Complete Congratulations! Ripware Monitor has been successfully installed to: C.@Forgram Files/Navini Ripware Monitor Citick "Done" to quit the Installer.
12.	After clicking Done the System Settings Change window appears, asking if you want to restart your computer now. Click <b>Yes</b> . NOTE: You must restart your computer at this point before proceeding.	System Settings Change       Image: System Settings will take effect.         You must restart your computer before the new settings will take effect.         Do you want to restart your computer now?

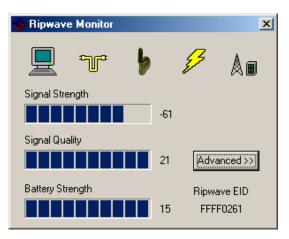
# Troubleshooting Using Ripwave Monitor

To open the Ripwave Monitor software application, click on the "Start" button and select Programs→Navini Ripwave Monitor→Ripwave Monitor.

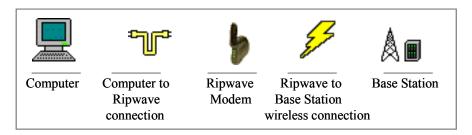
Windows Explorer	Microsoft Word C Outlook Express
👼 Programs	🕨 🔚 Navini Ripwave Monitor 🔸 🐠 Ripwave Monitor
Documents Settings Setting Search Help Tan	Uninstall Ripwave Monitor
🜒 Shut Down	

The Ripwave Monitor icon will appear in the toolbox tray of your computer. Double-click on this icon.

A window with icons and, provided your Modem is on, bar graphs, will pop up. Notice the bottom right corner of the window shows the Equipment Identification (EID) for your specific Ripwave Modem. If you talk with a Service Technician while troubleshooting, you may be asked for this number.



The icons represent the PC, the connection between the PC and the Modem, the Modem, the connection between the Modem and the Base Station, and the Base Station with which the Modem is communicating.



Troubleshooting Using Ripwave Monitor, continued The Signal Strength and Signal Quality are dynamic bar graphs that indicate how well your Modem is receiving signals from the Base Station. To increase the strength and quality of the signal, change the location of the Ripwave Modem. Try moving it closer to a window, to a higher location, away from other wireless devices (microwave ovens, cordless phones), and away from metal objects (shelves, file cabinets). As the Ripwave Modem is repositioned, observe the Signal Strength and Signal Quality bar graphs. Position the Modem for maximum signal strength and quality.

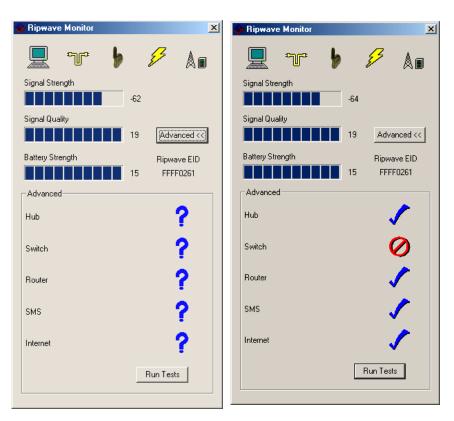
If you make a service call to your Service Provider, the Technician may ask you to read the numbers to the right of the signal bar graphs. These will help the Technician to evaluate the best position for your Ripwave Modem. The Battery Strength bar graph and the number to the right of it indicate how much charge is left in the battery. Not all Modems have the battery option. Only some LED Modems have a battery option. Without a battery in the Modem, the Battery Strength bar graph and number will be disabled (grayed out).

If the connection between the PC and the Modem or between the Modem and the Base Station is interrupted, a, red circle with a slash 🖉 will be positioned over the corresponding icon.

🐦 Ripwave Monitor				×
💻 😚	5		8	A 🛛
Signal Strength				
		-66		
Signal Quality				
		21	Adva	anced >>
Battery Strength			Binwa	ave EID
		0		F4E28

In this example, the cable connecting the computer and Modem is not operational; the wireless signal between Modem and Base Station is down; and there is no battery being used. Troubleshooting Using Ripwave Monitor, continued To check connectivity to the Service Provider's network, click the Advanced button on the Ripwave Monitor window. The Advanced section of the window appears and displays several strings of characters representing selected IP-addressable nodes in the network. These strings of characters (displayed) and the associated IP addresses (not displayed) are configurable by the Service Provider on a BTS-per-BTS basis. Note that if the connection between the Ripwave Modem and the Base Station is down, the Advanced button will be disabled (grayed out).

The blue question marks on the right side of the Advanced section indicate that all connections are untested. Now click on the Run Tests button at the bottom of the window. The PC will attempt to ping the IP address associated with each one of the character strings. Each blue question mark will change to either a blue checkmark or a red circle with a slash mark. A blue checkmark indicates that the connection to the IP is good. A red circle with a slash mark indicates there is a problem with that connection to that IP.



The features of the Advanced and Run Tests buttons are to be used in conjunction with your Service Provider Technician to resolve problems. There is no need to use these features unless you are experiencing problems with the Modem.

# Uninstalling Ripwave Monitor

If for some reason you need to uninstall the Ripwave Monitor software, e.g., to upgrade your Operating System software, follow the procedure below.

Step	Action	Illustration
1.	On your computer screen lower left corner, click on <b>Start</b> > <b>Programs</b> > <b>Navini</b> <b>Navini Monitor</b> > <b>Uninstall Navini</b> <b>Monitor</b> . The Install- Anywhere Uninstaller screen appears. Click <b>Uninstall</b> .	IstallAnywhere Uninstaller         Uninstall Ripwave Monitor         About to uninstall         Ripwave Monitor         This will completely remove all components installed by installAnywhere.         It will not remove files and folders created after the installation.
2.	The screen will cycle through as the application files are uninstalled.	InstallAngewhere Uninstaller  I Install Ripwave Monitor  Please wait while InstallAngewhere's uninstaller removes the following components  Prepange.  Please.  Prepange.  Please.  Derobation  Registry  InstallAngewhere in/Zero 0  InstallAngewhere
3.	The Uninstall Complete screen appears when finished. Click on <b>Quit</b> to close the Uninstall screen.	Instal/Anywhere Uninstaller         Uninstall Ripwave Monitor         Uninstall Complete         All items were successfully uninstalled.
4.	Restart the PC to complete the uninstall process. This will ensure it functions properly after uninstalling.	

# Installing Navini Diagnostics (NavDiag)

If your Ripwave Modem has a software release prior to 4.0, you have the Navini Monitor software and not the Navini Diagnostics.

Step	Action	Illustration
1. 2.	Shut down all programs, including anti-virus software programs, before installing the Navini Diagnostics software. Insert the Navini	
	Diagnositcs Installation CD into the CD-ROM drive.	
3.	At the bottom left-hand corner of your screen, click <b>Start &gt; Run</b> . In the Run window, enter <b>e:\setup</b> in the Open field (where "e" represents the CD drive wher you inserted the installation CD). Click <b>OK</b> to continue.	Run       ? ×         Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.         Open:       e:\setup         Image: Run in separate memory space         OK       Cancel         Browse
4.	The InstallAnywhere window appears. The progress bar indicates that InstallAnywhere has initialized.	InstallAnywhere InstallAnywhere is preparing to install 51% Created with InstallAnywhere. © 1998-2001 Zero G Software, Inc. www.ZeroG.com
5.	The Navini Diagnostics Language screen appears. Select a language and click <b>OK</b> to continue.	Internet at the speed of thought™         Navini Diagnostics         Copyright © 2003 Navini Networks         English

Installing Navini	Step	Action	Illustration
Diagnostics, Continued	6.	The Navini Diagnostics Introduction screen appears. Click <b>Next</b> to continue.	Novie Disoperate     Introduction     Instal/Anywhere will guide you through the installation of Navni     Dispositions     Profestallation Dummer     Profestallation Dummer     Instal/Anywhere will guide you through the installation of Navni     Disposition     Profestallation Dummer     Instal/Anywhere will guide you through the installation.     Click the Yearlough the installation.     Click the Yearlough on a previous screen, click the Previous' button.     You may cancel this installation at any time by clicking the 'Cancel'     button.     Mathematical Science
	~ <b>`</b>	The License Agreement screen appears. Read the Licensing Agreement. Select the <b>I Accept</b> option, and click <b>Next</b> to continue. NOTE: If the License Agreement is not accepted, you cannot install the software.	Cancel       Provide       Net <ul> <li>Navis Dispression</li> <li>Cancel</li> <li>Installation and Lise of Navini Dispressions Receiptance of the following License Agreement:</li> <li>Chooses Shorthoul Folds</li> <li>Chooses Shorthoul Folds</li> <li>Fortunate Product License Agreement:</li> <li>Software Product License Agreement:</li> <li>Licensee Product Licensee Agreement:</li> <li>Licensee Product Licensee Agreement:</li> <li>Marrier Product Licensee Agreement:</li> <li>Control Folds</li> <li>Licensee</li> <li>Software Product Licensee Agreement:</li> <li>Control Folds</li> <li>Licensee</li> <li>Discret the same of the License Agreement:</li> <li>Control Folds</li> <li>Licensee</li> <li>Control Folds</li> <li>Licensee</li> <li>Discret the same of the License Agreement:</li> <li>Control Folds</li> <li>Licensee</li> <li>Discret the same of the License Agreement</li> <li>Control Trol Societ the terms of the License Agreement</li> <li>Discret the terms o</li></ul>
	8.	The Choose Install Folder screen appears. Enter the name of the folder where you wish to install the software. Click <b>Next</b> to continue. The default installation folder provided by the software is shown in the illustration.	Navni Diagnostics      Introduction      Introduction      Choose Install Folder      Previous      Previous      Net      Choose Install Folder      C
	9.	The Choose Shortcut Folder screen appears. Select On the Desktop and click <b>Next</b> to continue.	Navini Disgnostics Choose Shortcut Folder Introduction Choose Shortcut Folder Of the reword you like to create product icons? Choose Shortcut Folder Choose Shortcut Folde

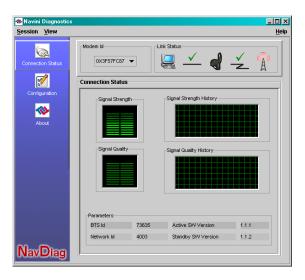
	Step	Action	Illustration
Installing Navini	10.	The Pre-Installation	Na Navini Diagnostics
Diagnostics, Continued	10.	Summary screen appears. Review the contents for accuracy. Click <b>Install</b> to continue. For your installation and computer, this screen may have different information than what is	• Introduction         • Choose brothul Folder         • Choose Brothul Folder         • Pre-Instalation Summary         • Install Complete         • Install Complete <tr< td=""></tr<>
		shown in the illustration.	
	11.	The Installing screen will display as the application files are loaded.	Navie Diagnostics      Number of the second se
	12.	At the Install Complete screen, click <b>Done</b> to close the window.	Navier Diagnostics      Install Complete      Install Complete      Congratulations! Navin Diagnostics has been successfully installed     to:      COmgratulations! Navin Diagnostics has been successfully installed     to:      CProgram Files/NavClag     Click*Done* to guit the installer.      Install Complete      Install

# Troubleshooting Using Navini Diagnostics (NavDiag)

To open the Navini Diagnostics software application, double-click on the Navini Diagnostics icon on your desktop.



The Connection Status screen will open and display data if the Modem is in session. The screen refreshes live data every second.



The icons represent the PC, the connection between the PC and the Modem, the Modem, the connection between the Modem and the Base Station, and the Base Station to which the Modem is communicating. Check marks over the connections indicate working connections.

The Signal Strength and Signal Quality are dynamic bar areas that indicate how well your Modem is receiving signals from the Base Station. Green lines indicate a strong signal. Orange lines indicate a moderately strong signal while red lines indicate a weak signal. To increase the strength and quality of the signal, change the location of the Ripwave Modem. Try moving it closer to a window, to a higher location, away from other wireless devices (microwave ovens, cordless phones), and away from metal objects (shelves, file cabinets). As the Ripwave Modem is repositioned, observe the Signal Strength and Signal Quality bars. Position the Modem for maximum signal strength and quality. Troubleshooting Using Navini Diagnostics, continued The History graphs plot the signal every 10 seconds. Read the graphs from right to left.

If the connection between the PC and the Modem or between the Modem and the Base Station is interrupted, a red circle with a slash question mark is positioned over the corresponding icon.

On the left-hand side of the screen, there are three screen options: Connection Status, Configuration, and About. The following screen will appear when you press the Configuration button.

Navini Diagnostics		<u> </u>
Connection Status	Modem Id DX3F57FC87  Link Status Configuration	<u>√</u> (Â)
About	Update Modern Application     File     Status	Browse Start
NavDiag	Reset Modem	

The Configuration screen enables you to update your Modem's software if you are so directed by your Service Provider. If you must update your Modem's software, your Service Provider will provide you with instructions regarding what to do.

If you click on About, the following screen will appear.

Troubleshooting Using Navini Diganostics, continued



This screen provides the version of the Navini Diagnostics software currently installed in your computer. It also provides a web site and telephone number where you can contact your Service Provider.

# Uninstalling Navini Diagnostics

If for some reason you need to uninstall the Navini Diagnostics software, e.g., to upgrade your Operating System software, follow the procedure below.

Step	Action	Illustration
Step       1.       2.	ActionOn your computerscreen lower left corner,click on Start >Programs > NaviniDiagnostics > UninstallNavini Diagnostics.The Install-AnywhereUninstaller screenappears. ClickUninstall. The screenwill cycle through as theapplication files areuninstalled.The Uninstall Completescreen appears when	InstallAnywhere Uninstaller         InstallAnywhere Uninstaller         Uninstall Navini Diagnostics         Uninstalling.         Uninstalling.         Uninstall Complete         Uninstall Complete         Uninstall Navini Diagnostics         Uninstall Navini Diagnostics         Uninstall Complete         Uninstall Navini Diagnostics         Uninstall Navini Diagnostics         Uninstall Navini Diagnostics
3.	Restart the PC to complete the uninstall	InstallAnywhere by Zero O Our of the second
	process. This will ensure it functions properly after uninstalling.	

# Installing & Charging the Battery

2.4 GHz Battery

The battery pack was an option on former models of Ripwave Modems. Batteries could be purchased optionally.

If you have a battery, the battery pack is installed in the bottom of the Ripwave Modem. The battery compartment of the 2.4 GHz Ripwave Modem varies from the 2.3, 2.5, 2.6, and 3.5 GHz models. To install and charge or remove the battery pack, follow the steps based on your model.

Step	Action	Illustration
1.	Squeeze both tabs to remove or install the battery pack cover. Note that the cover is not used when the battery pack is installed in the Modem.	Battery Pack Cover tabs
2.	Install the battery pack into the Ripwave Modem, ensuring that the contacts on the battery pack mate with the contacts in the Modem and that both slides snap down securely.	Battery contacts
3.	To charge the battery, connect the AC adapter to the Modem and to an AC power source (110/220 VAC, 60/50 Hz). The battery immediately will begin charging regardless of whether the On/Off switch is on. However, the pack will charge faster if the on/off switch is in the OFF position. If the on/off switch is ON, the light indicator will be constant yellow. When fully charged, the light will go off.	Battery Indicator

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2.3 GHz, 2.5 GHz,	Step	Action	Illustration
2.5 GHz, 2.5 GHz, & 2.6 GHz Battery	1.	Applying light pressure, push the tab on the battery pack cover to remove it from the bottom of the Modem.	Battery Pack Cover tab
	2.	Install the battery pack into the Modem, ensuring that the contacts mate and that both sides snap down securely. Reinstall the battery pack cover on the Modem.	
	3.	To charge the battery, connect the AC adapter to the Modem and to an AC power source. The battery will begin charging immediately regardless of whether the On/Off switch is on. However, the pack will charge faster if the on/off switch is in the OFF position. If the on/off switch is ON, the light indicator will be constant yellow. When fully charged, the light will go off.	Battery Indicator

Care & Maintenance	The Ripwave Modem is designed to give years of trouble-free service. To ensure operation, read the following care and maintenance instructions.		
	<ul> <li>Keep the Modem free of dust and moisture. If the Modem gets wet, use a towel to dry it immediately.</li> </ul>		
	<ul> <li>Handle the Modem gently. Dropping it or mishandling it can cause damage to the plastic shell or the electronic circuitry.</li> </ul>		
	<ul> <li>Keep the Modem away from high temperatures. Heat can cause damage to the plastic shell or the electronic circuitry.</li> </ul>		
	<ul> <li>Use only a mild detergent and a soft, damp cloth to clean the Modem. Do not use any chemicals or abrasives to clean the plastic shell.</li> </ul>		
	• If there is a problem with the Modem, do not attempt to repair it yourself. Report the problem to your Service Provider.		
	<ul> <li>If you are going to upgrade your Operating System after loading the Navini monitoring software (Ripwave Monitor or Navini Diagnostics), you must first uninstall the monitoring software prior to upgrading the OS. Otherwise, the monitoring software will not work. See Uninstall instructions in this Guide.</li> </ul>		
	• The Ripwave Modem must be left powered ON whenever you shut down or restart any Windows 98 or ME platforms. If the Modem is off, a blue screen appears on the monitor. In the event this happens you will mostly likely have to power cycle the PC.		
Upgrading the Modem	There are two different ways to upgrade the software that makes the Modem work. Your Service Provider may perform an over-the- air (OTA) upgrade, where the up-to-date software files are transferred wirelessly from the Base Station to your Modem; or provide a downloadable web file or CD-ROM with software to be installed on your PC and used to upgrade the Modem. The latter method is used only if the Modem was not powered on during the OTA upgrade process. The OTA upgrade is normally transparent to the user; in other words, there should be no noticeable service interruption. The web or CD upgrade comes with instructions and takes a minimal amount of time to complete.		

# **ADDENDUM 1: Ripwave<sup>™</sup> Modem - PC Troubleshooting**

- For Use With All Ripwave Modems, Ripwave Monitor Software, and Navini Diagnostics Software -

### **PC Operating Systems**

Prior to installing the Ripwave Monitor or Navini Diagnostics software, please check to insure that the PC Operating System meets the criteria given in the table below. If these criteria are not met, unpredictable problems may occur as a result of installation. It is recommended that the user have the latest Windows<sup>e</sup> updates installed prior to installing the Ripwave Monitor or Navini Diagnostics software.

Operating System	Ethernet interface	USB interface	Notes
Win95	Supported	Not Supported	1, 2
Win98	Supported	Supported	2
Win98, 2nd ed.	Supported	Supported	2
WinME	Supported	Supported	2
Win 2000	Supported	Supported	2,4
Win NT 3.0/4.0	Supported	Not Supported	2, 4
Win XP	Supported	Supported	3, 4

- Note 1: USB was not supported in this software release
- Note 2: Internet Explorer 3.0 or higher is required
- Note 3: Requires Service Pack 1
- Note 4: To load the Ripwave Monitor or Navini Diagnostics software, the user MUST have Administrative privileges.

#### **USB Interface**

The USB Modem allows for a single PC to be connected to the Ripwave Modem via a USB interface, or multiple PC's connected via a USB hub. The Modem conforms to USB 1.1 standards. The Ethernet packets generated by the PC are encapsulated within the USB protocol and transferred to the Modem. The packets are then sent over-the-air. The USB Modem is fully supported for PC's using Windows 98, Windows ME, Windows 2000, and Windows NT 5.0.

To install the Modem using a USB interface, you must connect the Modem to the PC first and insert the CD that comes with the modem in the package to load the USB "Miniport" driver. After installing the USB Miniport driver, the PC may or may not need to be restarted, depending upon the type of Operating System and the particular installation. The system will prompt if a reboot is necessary.

Now install the Ripwave Monitor or Navini Diagnostics software. You must ALWAYS reboot the PC after installing or uninstalling this software. Failure to do may gravely affect PC operation.

### **Ethernet Interface**

The Ethernet Modem may be connected to a PC via an Ethernet connection. Also, it is possible to connect multiple PC devices to a single Modem. The multi-PC configuration is transparent to the PC users and is analogous to a multi-PC configuration on a normal Ethernet LAN. The distinct advantage of the Ethernet Modem is that it connects to any device that has an Ethernet interface. This makes it ideal for small businesses that have a mix of devices, such as Unix machines, Apple Computers, etc. IP addresses can be assigned to the devices dynamically via a DHCP server, or as Fixed IP assignments, or Point-to-Point Protocol Over Ethernet (PPPoE).

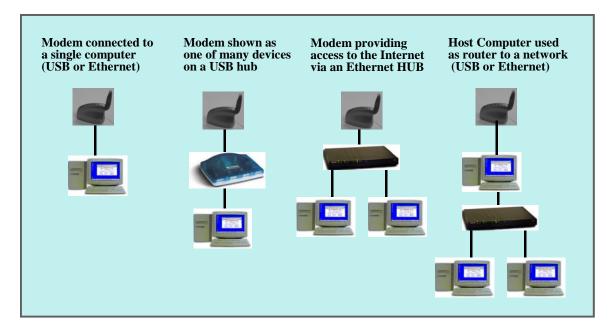
### **Routers & Hubs**

The Ripwave Monitor software will not work if going through a router or if going through some USB or Ethernet hubs. Doing so may cause Riwpave Monitor software not to operate.

### Battery

Older Ripwave Modems gave the user the option of buying an 1800 mA Li-Ion battery. With the optional battery, the user could be connected to the Internet anytime and anywhere there is RF coverage without the need for a power outlet. The Modem battery was rated to provide 30 minutes to 90 minutes of use without recharging (depending on activity).

# **Configuration Options**



# **Results of Correct Navini Monitor Installation**

Experienced PC users can check the results of the Navini Ripwave Monitor installation by looking at the log file that is created during the installation process. The log file is named "Ripwave\_Monitor\_InstallLog.log." It is located under c:\Program Files\Navini Ripwave Monitor.

\_\_\_\_\_

Install Begin: Wed Feb 26 13:30:09 EST 2003 Install End: Wed Feb 26 13:30:29 EST 2003

Created with Zero G's InstallAnywhere 4.5.3 Enterprise Build 1394

Summary

Installation: Successful. 34 SUCCESSES 0 WARNINGS 0 NONFATAL ERRORS 0 FATAL ERRORS

Action Notes:
None.
Install Log Detail:
Custom Action: com.navini.iatool.KillMon Status: SUCCESSFUL
Check Disk Space: D:\Program Files\Navini Ripwave Monitor Status: SUCCESSFUL
Additional Notes: NOTE - Required Disk Space: 23,243,991; Free Disk Space: 3,977,043,965
Install Directory: D:\Program Files\Navini Ripwave Monitor\jre Status: SUCCESSFUL
Additional Notes: NOTE - Directory already existed
Install Directory: D:\Program Files\Navini Ripwave Monitor\
Status: SUCCESSFUL Additional Notes: NOTE - Directory already existed
Additional Poles. POTE Directory anoung existed
Install Directory: D:\Program Files\Navini Ripwave Monitor\UninstallerData\ Status: SUCCESSFUL
Additional Notes: NOTE - Directory already existed
Custom Action: com.navini.iatool.KillMon Status: SUCCESSFUL
Install Uninstaller: Ripwave Monitor (Install All Uninstaller Components) Status: SUCCESSFUL
Install File: D:\Program Files\Navini Ripwave Monitor\UninstallerData\Uninstall inst.exe
Status: SUCCESSFUL
Install File: D:\Program Files\Navini Ripwave Monitor\UninstallerData\Uninstall inst.lax Status: SUCCESSFUL

Install Directory:

Status: SUCCESSFUL Additional Notes: NOTE - Directory already existed Install File<sup>-</sup> D:\Program Files\Navini Ripwave Monitor\UninstallerData\resource\iawin32.dll Status: SUCCESSFUL Install File: D:\Program Files\Navini Ripwave Monitor\UninstallerData\resource\remove.exe Status: SUCCESSFUL Make Registry Entry: Key: HKEY LOCAL MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Ripwave Monitor, Value Name: DisplayName, Value Data: Ripwave Monitor Status: SUCCESSFUL Make Registry Entry: Key: HKEY LOCAL MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Ripwave Monitor, Value Name: UninstallString, Value Data: "D:\Program Files\Navini Ripwave Monitor\UninstallerData\Uninstall inst.exe" Status: SUCCESSFUL Ripwave Monitor (Install All Uninstaller Components) Install Uninstaller: Status: SUCCESSFUL Install File: D:\Program Files\Navini Ripwave Monitor\instpro5.exe Status: SUCCESSFUL Install File: D:\Program Files\Navini Ripwave Monitor\NAVMON.exe Status: SUCCESSFUL Install File: D:\Program Files\Navini Ripwave Monitor\navpro5.inf Status: SUCCESSFUL Install File: D:\Program Files\Navini Ripwave Monitor\NAVPRO5.sys Status: SUCCESSFUL **Registry Entries:** Create the InstallDir Key Status: SUCCESSFUL Set Environment Variable: PATH = D:\Program Files\Navini Ripwave Monitor Status: SUCCESSFUL Install File D:\Program Files\Navini Ripwave Monitor\reboot.exe Status: SUCCESSFUL D:\Documents and Settings\All Users\Start Menu\Programs\ Install Directory: Status: SUCCESSFUL Additional Notes: NOTE - Directory already existed Install Directory: D:\Documents and Settings\All Users\Start Menu\Programs\Navini Ripwave Monitor\ Status: SUCCESSFUL Additional Notes: NOTE - Directory already existed Create Shortcut: D:\Documents and Settings\All Users\Start Menu\Programs\Navini Ripwave Monitor\Ripwave Monitor.lnk Status: SUCCESSFUL

D:\Program Files\Navini Ripwave Monitor\UninstallerData\resource\

Create Shortcut: D:\Documents and Settings\All Users\Start Menu\Programs\Navini Ripwave Monitor\Uninstall Ripwave Monitor.lnk

Status: SUCCESSFUL

- Install Directory: D:\WINDOWS\System32\DRIVERS\ Status: SUCCESSFUL Additional Notes: NOTE - Directory already existed
- Install Directory: D:\Documents and Settings\All Users\Start Menu\Programs\Startup\ Status: SUCCESSFUL Additional Notes: NOTE - Directory already existed
- Create Shortcut: D:\Documents and Settings\All Users\Start Menu\Programs\Startup\Ripwave Monitor.lnk Status: SUCCESSFUL
- Install Directory: D:\WINDOWS\ Status: SUCCESSFUL Additional Notes: NOTE - Directory already existed Install File: D:\WINDOWS\killmon.exe Status: SUCCESSFUL
- Execute Target File: reboot.exe Status: SUCCESSFUL

# **ADDENDUM 2: End User Software License Agreement**

# ---- NOTICE TO USER -----

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2. DESCRIPTION OF OTHER RIGHTS AND LIMITATIONS.

2.1 Multiple Processor Version Selection. The CD or diskette(s) on which the SOFTWARE resides may contain several copies of the SOFTWARE, each of which is compatible with different microprocessor architectures, such as the x86 architecture or various RISC architectures ("Processor Version(s)"). You may install and use only one copy of one Processor Version of the SOFTWARE on the COMPUTER.

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