

Gateway®



User Guide

Gateway 450 Notebook

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Chapter 1

Getting Help



- Using the Gateway Web site
- Using Help and Support
- Using Your Computer guide
- Using online help

Thank you for purchasing our notebook!

You have made an excellent decision choosing Gateway. We are sure that you will be pleased with the outstanding quality, reliability, and performance of your new notebook. Each and every Gateway notebook uses the latest technology and passes through the most stringent quality control tests to ensure that you are provided with the best product possible.

Your new Gateway notebook is designed to provide an exceptional balance of performance and portability. Your notebook uses the latest chipset and mobile processor technologies to manage the processor speed and power consumption for a greater battery life experience. This design provides you with maximum performance when plugged into AC power balanced with optimized battery life when on battery power.

Please read this manual carefully to familiarize yourself with our range of services and support. We have highlighted some basic care and safety information to help you keep your notebook in good operating condition.

Gateway stands behind our value proposition to our customers — to provide best-of-class service and support in addition to high-quality, brand-name components at affordable prices. If you ever have a problem, our knowledgeable, dedicated customer service department will provide you with fast, considerate service.

We sincerely hope that you will receive the utmost satisfaction and enjoyment from your new Gateway notebook for years to come.

Thank you again, from all of us at Gateway.

Gateway Web site

Gateway's online support is available 24 hours per day, 7 days per week and provides the most current drivers, product specifications, tutorials, and personalized information about your notebook. Visit the Gateway eSupport Web site at support.gateway.com.



Using eSupport

The eSupport site is divided into five major areas:

- Support Home
- Product Support
- Downloads
- Contact Us
- PC Tools

Support Home

Click **Support Home**, then click **All Support Documents** to access product documentation, specifications, and guides. You can also browse through the reference area to locate an article specific to the question you have.

Click **Support Home**, then click **General Tutorials** to access an extensive library of how-to articles and videos on topics, such as making audio CDs and installing a hard drive.

Product Support

Click **Product Support** to view a list of all the products that Gateway supports.

Downloads

Click **Downloads**, then click **My Downloads** to get the latest software updates for BIOS and driver upgrades. By entering your serial number you get drivers specific to your notebook. Click **All Downloads** to walk through a step-by-step wizard to locate your drivers.

Contact Us

Click **Contact Us** to access links to customer care with a live technician, including chat and e-mail. Click **Call Us** to get a list of Gateway telephone numbers for both sales and support. For more information, see [“Telephone support” on page 134](#).

PC Tools

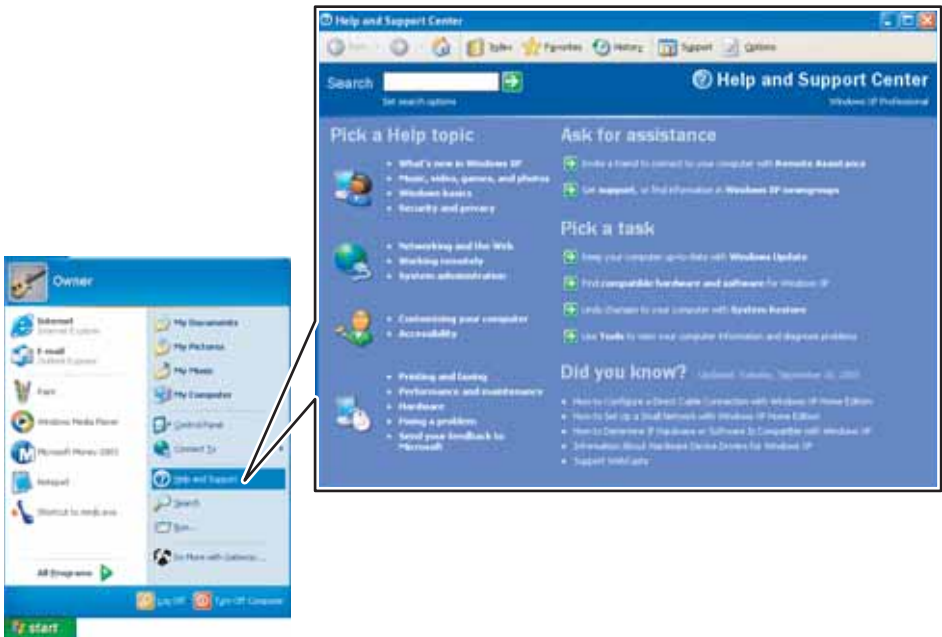
Click **PC Tools** to access utilities to help you manage your notebook.

Help and Support

Your notebook includes *Help and Support*, an easily accessible collection of help information, troubleshooters, and automated support. Use Help and Support to answer questions about Windows and to help you quickly discover and use the many features of your Gateway notebook.


▶ To start Help and Support:

- Click **Start**, then click **Help and Support**. Help and Support opens.



You can find help information by clicking a link, performing a search, or browsing the index.

Searching for a topic

To search for a topic in Help and Support, type a word or phrase (keyword) in the **Search** box located at the top of any Help and Support screen, then click the arrow  button.

For each search, you receive the following search result types:

- Suggested Topics - These topics are located in Help and Support and are relevant to your search topic.
- Full-text Search Matches - These topics are located in Help and Support and contain the words you entered in the **Search** box.
- Microsoft Knowledge Base - These topics are located on the Microsoft Web site and contain the words you entered in the **Search** box. You must be connected to the Internet to search for and access these topics.

To view a list of your search results, click the results header for the type of results you want to view.

To view a topic, click the topic name in the **Search Results** list.

Using Your Computer guide

In addition to this guide, the *Using Your Computer* guide has been included on your hard drive. This guide includes information on using Windows, using the Internet, sending a fax, and changing power-saving settings as well as other topics.

To access the **Using Your Computer** guide:

- Click **Start**, **All Programs**, then click **Gateway Documentation**.



Online help

Many programs provide information online so you can research a topic or learn how to perform a task while you are using the program. You can access most online help information by selecting a topic from a **Help** menu or by clicking a **Help** button.



You can search for information by viewing the help contents, checking the index, searching for a topic or keyword, or browsing through the online help.



Chapter 2



Checking Out Your Gateway Notebook



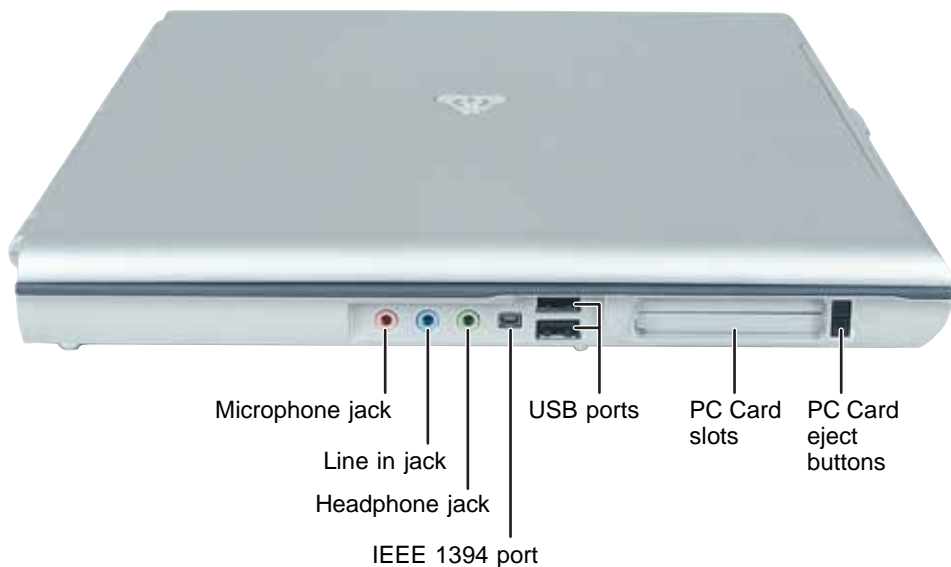
- Identifying features
- Locating your notebook's model and serial number
- Locating the Microsoft Certificate of Authenticity
- Locating the specifications for your notebook
- Purchasing accessories






Front




Component	Icon	Description
Speakers		Provide audio output when headphones or amplified speakers are not plugged in.
Battery charge indicator		<p>The LED shows the battery activity and status.</p> <ul style="list-style-type: none"> ▪ LED green - battery is fully charged. ▪ LED orange - battery is charging. ▪ LED blinking red - battery charge is very low. ▪ LED solid red - battery is malfunctioning. <p>This LED only lights when the notebook is connected to AC power or the battery is very low.</p>
Power indicator		<p>The LED shows your notebook's power status.</p> <ul style="list-style-type: none"> ▪ LED on - notebook is on. ▪ LED blinking - notebook is in Standby mode. ▪ LED off - notebook is off.
LCD panel release latch		Open the LCD panel by pressing the release latch.

Left side





Component	Icon	Description
Microphone jack		Plug a microphone into this jack.
Line in jack		Plug an external audio input source (such as a stereo) to this jack so you can record sound on your notebook or play sound through the notebook speakers.
Headphone jack		Plug amplified speakers or headphones into this jack. The built-in speakers are turned off when speakers or headphones are plugged into this jack. The headphone jack on the optional port replicator is turned off when headphones are plugged into this jack.
IEEE 1394 port		Plug an IEEE 1394 (also known as Firewire® or i.Link®) device (such as a digital camcorder) into this 4-pin IEEE 1394 port.
USB ports		Plug USB (Universal Serial Bus) devices (such as a flash drive, Iomega™ Zip™ drive, printer, scanner, camera, keyboard, or mouse) into these ports.

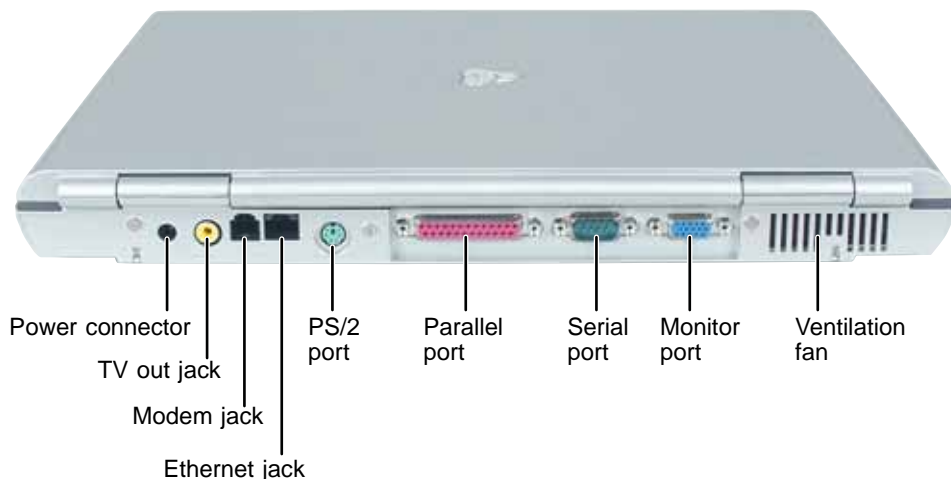
Component	Icon	Description
PC Card slots		Insert one or two Type II or one Type III PC Card into these slots. For more information, see “Adding and removing a PC Card” on page 64.
PC Card eject buttons		Press one of the eject buttons to remove a PC Card from a PC Card slot. For more information, see “Adding and removing a PC Card” on page 64.

Right side




Component	Icon	Description
Modular bay		Use this bay for a secondary battery, a memory card reader, a CD drive, DVD drive, DVD/CD-RW drive, recordable DVD drive, a diskette drive, or a second hard drive. For more information, see “Changing modules” on page 52 . To determine the type of drive in the modular bay, examine the drive tray’s plastic cover and compare the logo to those listed in “Identifying drive types” on page 55 .
Kensington™ lock slot		Secure your notebook to an object by connecting a Kensington cable lock to this slot.

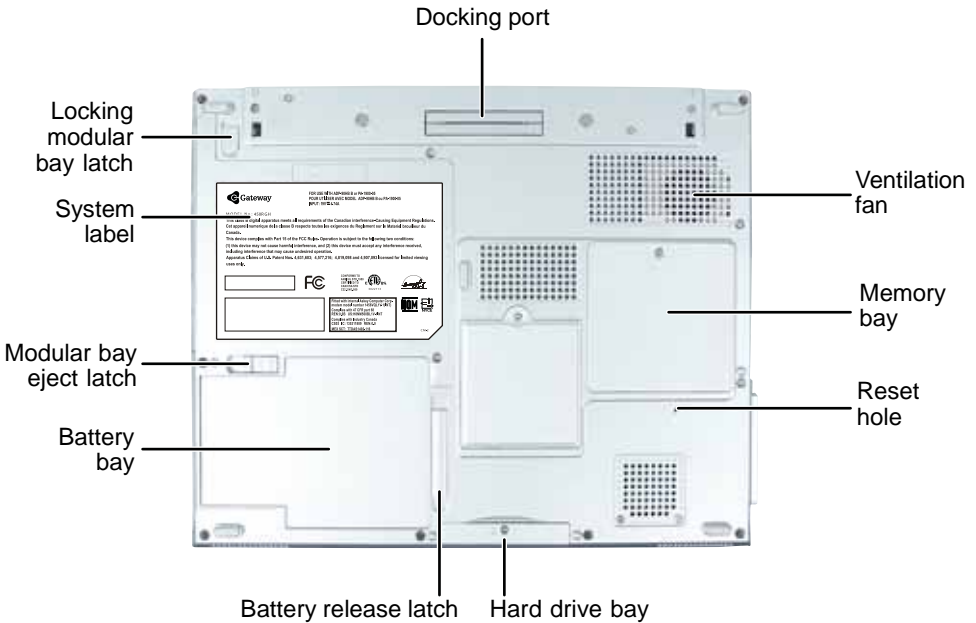
Back







Component	Icon	Description
Power connector		Plug the AC adapter cable into this connector.
TV out jack		Plug a television into this jack so you can view your display on a television using NTSC/PAL composite video. For more information, see “Viewing the display on a television” on page 68.
Modem jack		Plug a modem cable into this jack.
Ethernet jack		Plug a 10/100/1000 Ethernet network cable into this jack.
PS/2 port		Plug a Personal System/2 [®] (PS/2) device (such as a keyboard or mouse) into this port. Attaching a PS/2 mouse or keyboard to your notebook may deactivate the touchpad, pointing device, or built-in keyboard.
Parallel port		Plug a parallel device (such as a printer) into this port.
Serial port		Plug a serial device (such as a digital camera) into this port.

Component	Icon	Description
Monitor port		Plug an analog VGA monitor or projector into this port. For more information, see "Viewing the display on a projector or monitor" on page 66.
Ventilation fan		Helps cool internal components. Do not block or insert objects into these slots.

Bottom



Component	Icon	Description
Docking port		Connect the port replicator to this port. Warning! Power is passed through this port. This docking connection is certified to UL 1950 for use only with port replicators designed for your Gateway notebook.
Ventilation fan		Helps cool internal components. Do not block or insert objects into these slots.
Memory bay		Install as many as two memory modules into this bay. For more information, see "Adding or replacing memory" on page 87.
Reset hole		Insert a straightened paper clip into this hole to manually restart the notebook.
Hard drive bay		The main hard drive is located in this bay. For more information, see "Replacing the hard drive kit" on page 90.

Component	Icon	Description
Battery release latch		Slide to release the battery.
Battery bay		Insert the main battery into this bay. For more information, see “Changing batteries” on page 78 .
Modular bay eject latch		Slide and hold the locking modular bay latch to the unlock position, then slide this latch to release the bay module.
System label		Includes the product model number. For more information, see “Identifying your model” on page 20 .
Locking modular bay latch		Slide and hold this latch to the unlock position, then slide the modular bay eject latch to release the bay module.

Keyboard area

For information on using your keyboard, see [“Using the keyboard” on page 33](#).



Component	Description
Status indicators	Inform you when a drive is in use or when a button has been pressed that affects how the keyboard is used. For more information, see “Status indicators” on page 32 .
Power button	Press to turn the power on or off. You can also configure the power button for Standby/Resume mode. For more information, see “Starting your notebook” on page 29 .
Keyboard	Provides all the features of a full-sized computer keyboard. For more information, see “Using the keyboard” on page 33 .
EZ Point™ pointing device (optional)	Provides all the functionality of a mouse. For more information, see “Using the optional EZ Point pointing device” on page 42 .

Component	Description
Fingerprint reader (optional)	Provides enhanced security. For more information, see “Using the optional fingerprint reader” on page 46.
EZ Pad™ Touchpad	Provides all the functionality of a mouse. For more information, see “Using the EZ Pad touchpad” on page 38.
EZ Point™ pointing device buttons (optional)	Provides all the functionality of mouse buttons. For more information, see “Using the optional EZ Point pointing device” on page 42.
Multi-function buttons	Press these buttons to open programs assigned to them. These buttons are set to open your default e-mail program, your default Web browser, online help, and the <i>My Computer</i> window. For more information, see “Multi-function buttons” on page 37.

Identifying your model

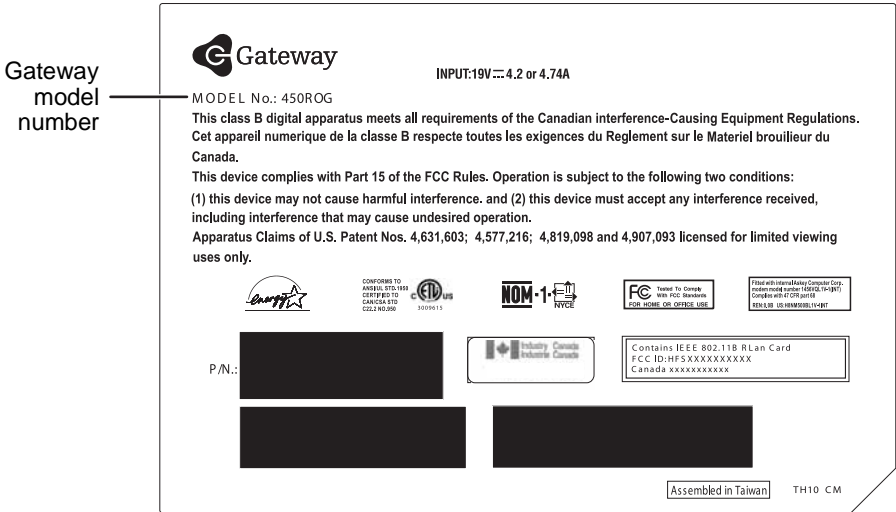
Important



The labels shown in this section are for informational purposes only. Label information varies by model, features ordered, and location.

Gateway model and serial number

The label on the bottom of your notebook contains information that identifies your notebook model and its features. Gateway Technical Support will need this information if you call for assistance.



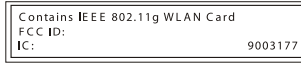
Gateway serial number

You can locate the Gateway serial number:

- Printed on a white sticker on the bottom or back of your notebook.
- Printed on the customer invoice that came with your notebook. The invoice also contains your customer ID number.

Internal wireless label

A label similar to the following indicates your notebook contains a wireless communications device. The label is located on the bottom of your notebook.



Microsoft Certificate of Authenticity

The Microsoft Certificate of Authenticity label found on the bottom of your notebook includes the product key code for your operating system.



Finding your specifications

For more information about your notebook, such as memory size, memory type, and hard drive size, visit Gateway's *eSupport* page at support.gateway.com. The *eSupport* page also has links to additional Gateway documentation and detailed specifications. For more information, see “Using eSupport” on page 4.



Accessories

To order accessories, visit the Accessory Store at accessories.gateway.com.

Batteries and automobile/airplane power adapters

If you run your notebook on battery power for extended periods, you may want to buy an additional battery so you can swap batteries when necessary. See [“Changing batteries” on page 78](#) for more information about using an additional main battery and a secondary battery in your notebook.

With an automobile/airplane power adapter, you can save battery power by plugging your notebook into an automobile cigarette lighter or an airplane in-flight power receptacle.

Carrying cases

Gateway has large-capacity carrying cases if you need additional space for accessories or supplies.

Memory

Large programs, such as multimedia games or graphics programs, use a lot of memory. If your programs are running more slowly than you think they should, try adding more memory. See [“Adding or replacing memory” on page 87](#) for more information.

Peripheral devices

You can attach devices (such as a keyboard, mouse, printer, or monitor) to your notebook or optional port replicator.

Port replicators

Although you can attach devices directly to your notebook, a port replicator lets you make all of those connections at one time. When you travel with your notebook, you merely disconnect from the port replicator instead of unplugging all the devices.

A port replicator also provides additional ports and other expansion features not included with your notebook. See [“Using the Optional Port Replicator” on page 95](#) for more information about using a port replicator with your notebook.

Printers

You can attach almost any type of printer to your notebook. The most common types are inkjet and laser printers, which print in color or black and white.

Inkjet printers and cartridges are relatively inexpensive, but they are slower than laser printers. Using an inkjet color printer, you can print pictures, banners, and greeting cards, as well as documents.

Laser printers and cartridges are more expensive, but they print much faster than inkjet printers. Laser printers are better than inkjet printers when you are printing large documents.

USB flash drive

Use a USB flash drive for storing files or transferring files to another computer.

Chapter 3

Getting Started



- Connecting the AC adapter
- Turning your notebook on and off
- Using the status indicators, keyboard, and the EZ Pad touchpad
- Adjusting the volume
- Turning wireless networking on and off

Connecting the AC adapter

You can run your notebook using an AC adapter or your notebook's battery. The battery was shipped to you partially charged. You should use the AC adapter right away to fully charge the battery. Allow three hours for the battery to fully charge.

Important



If the battery is not fully charged before you use your notebook on battery power for the first time, the battery life may be much shorter than you expect. If the battery life seems short even after being charged for three hours, the battery may need to be recalibrated. For information on recalibrating the battery, see ["Recalibrating the batteries"](#) on page 77.

▶ To connect the AC adapter:

- 1 Connect the power cord to the AC adapter.



Caution



Make sure that you use the AC adapter that came with your notebook or one of the same type purchased from Gateway.

Replace the power cord if it becomes damaged. The replacement cord must be of the same type and voltage rating as the original cord or your notebook may be damaged.

- 2 Connect the AC adapter to your notebook's power connector.



- 3 Plug the power cord into a wall outlet.

The battery charge indicator turns on (see [“Status indicators”](#) on page 32 for the location of the battery charge indicator).

- 4 When you finish using your notebook for the first time, turn off your notebook and leave your notebook connected to AC power until the battery charge indicator turns green.

Warning



Do not attempt to disassemble the AC adapter. The AC adapter has no user-replaceable or user-serviceable parts inside. The AC adapter has dangerous voltages that can cause serious injury or death. Contact Gateway about returning defective AC adapters.

Important



If the battery charge indicator does not turn green after three hours, contact Gateway Customer Care at support.gateway.com.



Protecting from power source problems

During a power surge, the voltage level of electricity coming into your notebook can increase to far above normal levels and cause data loss or system damage. Protect your notebook and peripheral devices by connecting them to a *surge protector*, which absorbs voltage surges and prevents them from reaching your notebook.

Warning



High voltages can enter your notebook through both the power cord and the modem connection. To protect your notebook and avoid electrical shock, use a surge protector. If you have a telephone modem, use a surge protector that has a modem jack. If you have a cable modem, use a surge protector that has an antenna/cable TV jack. During an electrical storm, unplug both the surge protector and the modem.

Starting your notebook

To start your notebook:

- 1 Press the latch on the front of your notebook, then lift the LCD panel.
- 2 Press the power button located above the keyboard.



The power button is preset to On/Off mode. However, you can also set it to function in Standby/Resume mode.

Tips & Tricks



For more information about changing the power button mode, see “Changing Power-saving Settings” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.

- 3 If you are starting your notebook for the first time, follow the on-screen instructions to set up your notebook.



Tips & Tricks



You can set up the optional fingerprint reader to prevent unauthorized users from turning on your notebook. For more information, see [“Using the optional fingerprint reader”](#) on page 46.

Waking up your notebook

When you have not used your notebook for several minutes or if you close the LCD panel without turning off your notebook, it may enter a power-saving mode called *Standby*. While in Standby, the power indicator flashes.

If your notebook is in Standby mode, press the power button to “wake” it up.

Tips & Tricks



For more information about changing the power button mode, see “Changing Power-saving Settings” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.

Turning off your notebook



To turn off your notebook:

- 1 Click **Start**, then click **Turn Off Computer**. The *Turn Off Computer* dialog box opens.
- 2 Click **Turn Off**. Windows shuts down and turns off your notebook.

Important



If for some reason you cannot use the Turn Off Computer option in Windows to turn off your notebook, press and hold the power button for about five seconds, then release it.



Restarting (rebooting) your notebook

If your notebook does not respond to keyboard or touchpad input, you may have to close programs that are not responding. If closing unresponsive programs does not restore your notebook to normal operation, you may have to restart (reboot) your notebook.

To close unresponsive programs and restart your notebook:

- 1 Press **CTRL+ALT+DEL**. The *Windows Security* dialog box opens.
- 2 Click **Task Manager**. The *Windows Task Manager* dialog box opens.
- 3 Click the program that is not responding.
- 4 Click **End Task**.
- 5 Click **X** in the top-right corner of the *Windows Task Manager* dialog box.
- 6 If your notebook does not respond, turn it off, wait ten seconds, then turn it on again.

Important



If your notebook does not turn off immediately, complete the following steps until your notebook turns off:

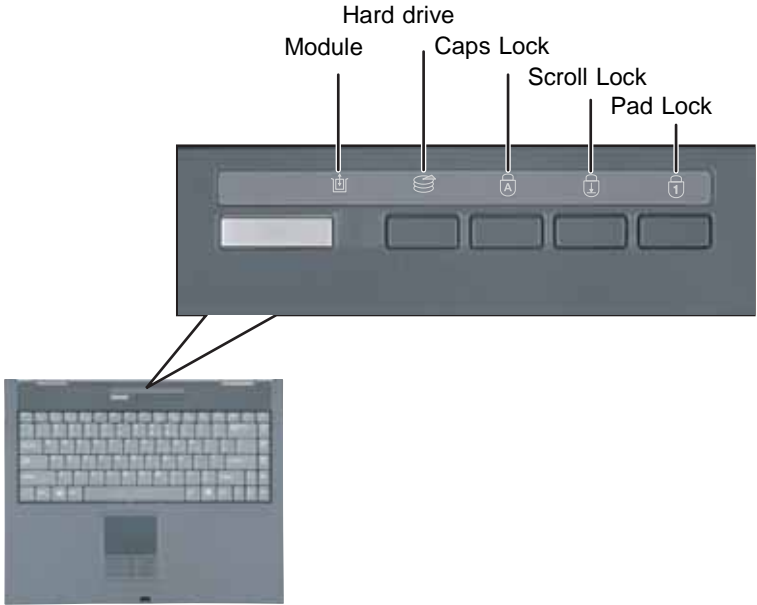
- 1 Press and hold the power button for about five seconds, then release it.
- 2 Insert a straightened paper clip into the reset hole on the bottom of your notebook.
- 3 Unplug the power cord and remove the battery for more than 10 seconds.

As a part of the regular startup process, a program to check the disk status runs automatically. When the checks are finished, Windows starts.



Status indicators

Status indicators inform you when a drive is being used or when a button has been pressed that affects how the keyboard is used.

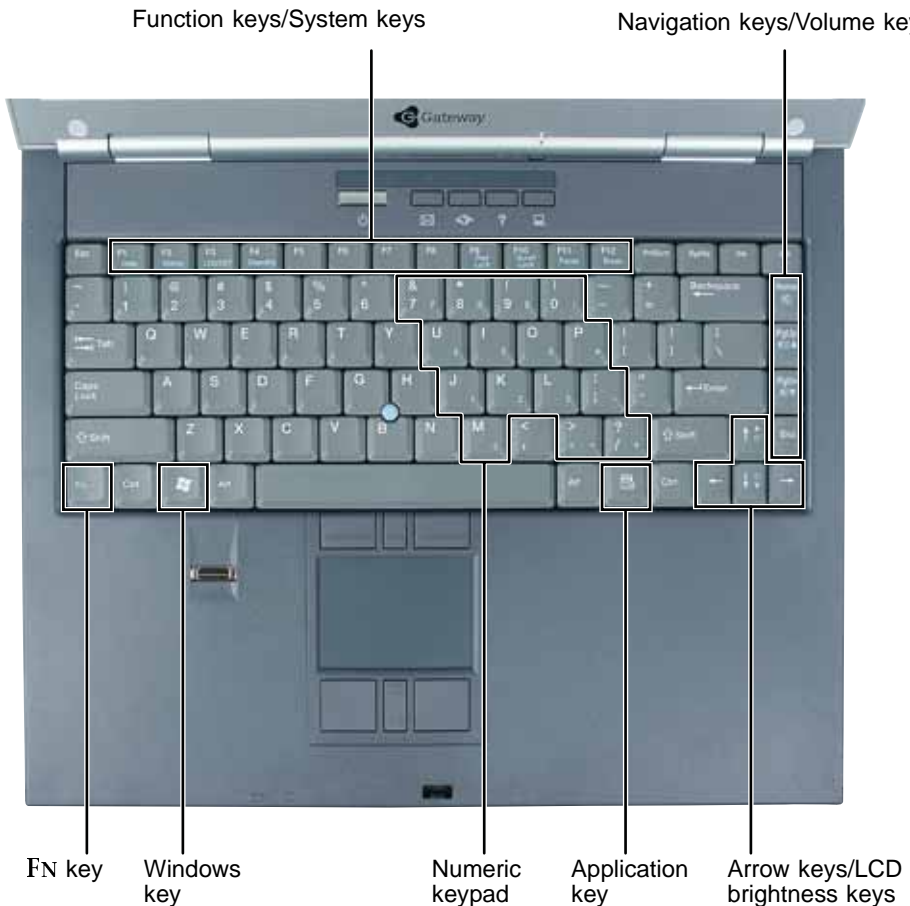


Indicator	Icon	Description
Module		<ul style="list-style-type: none">Indicator Green - The module is in use.Indicator Orange - The module is ready to swap.
Hard drive		The hard drive is in use.
Caps Lock		Caps Lock is turned on.
Scroll Lock		Scroll Lock is turned on. For more information, see “System key combinations” on page 35.
Pad Lock		Numeric keypad is turned on. For more information, see “System key combinations” on page 35.

Using the keyboard



Your notebook features a full-size keyboard that functions the same as a desktop computer keyboard. Many of the keys have been assigned alternate functions, including shortcut keys for Windows, function keys for specific system operations, and the Num Lock keys for the numeric keypad.

You can attach an external keyboard to the notebook using a USB port. You do not need to shut down the notebook to connect a USB keyboard. You can also attach an external keyboard to your optional port replicator using a USB or PS/2 port.



Key types

The keyboard has several different types of keys. Some keys perform specific actions when pressed alone and other actions when pressed in combination with another key.

Key type	Icon	Description
Function keys		Press these keys labeled F1 to F12 to perform actions in programs. For example, pressing F1 may open help. Each program uses different function keys for different purposes. See the program documentation to find out more about the function key actions.
System keys		Press these colored keys in combination with the FN key to perform specific actions. For more information, see “System key combinations” on page 35 .
Navigation keys		Press these keys to move the cursor to the beginning of a line, to the end of a line, up the page, down the page, to the beginning of a document, or to the end of a document.
Volume keys		Press these colored keys in combination with the FN key to increase or decrease the volume or to turn off all sound.
FN key		Press the FN key in combination with a colored system key (such as STATUS, STANDBY, or PAUSE) to perform a specific action.
Windows key		Press this key to open the Windows Start menu. This key can also be used in combination with other keys to open utilities like F (Search utility), R (Run utility), and E (Explorer utility).
Application key		Press this key for quick access to shortcut menus and help assistants in Windows.
Arrow keys		Press these keys to move the cursor up, down, right, or left.
LCD brightness keys		Press these colored keys in combination with the FN key to control the screen brightness.

System key combinations

When you press the FN key and a system key at the same time, your notebook performs the action identified by the colored text or icon on the key.

Press and hold FN, then press this system key...	To...
<div style="border: 1px solid black; padding: 5px; text-align: center;"> F2 Status </div>	Display the power status box in the upper-left corner of your display. The box shows the battery charge level, the BIOS version, and whether the AC adapter is being used. Press the key combination again to close this box.
<div style="border: 1px solid black; padding: 5px; text-align: center;"> F3 LCD/CRT </div>	Toggle the notebook display between the LCD, an external monitor or projector, or both displays at the same time. A monitor or projector must be plugged into the monitor port on your notebook. For more information, see “Viewing the display on a projector or monitor” on page 66.
<div style="border: 1px solid black; padding: 5px; text-align: center;"> F4 Standby </div>	Enter Standby mode. Press the power button to leave Standby mode. For more information, see “Changing power modes” on page 83.
<div style="border: 1px solid black; padding: 5px; text-align: center;"> F9 Pad Lock </div>	Turn on Pad Lock so you can use the numeric keypad. Press this key combination again to turn off Pad Lock. The Pad Lock status indicator appears when this function is turned on.
<div style="border: 1px solid black; padding: 5px; text-align: center;"> F10 Scroll Lock </div>	Pause the text scrolling in a DOS screen. Press this key combination again to continue scrolling. The Scroll Lock status indicator appears when this function is turned on. (This function is only available in some programs.)
<div style="border: 1px solid black; padding: 5px; text-align: center;"> F11 Pause </div>	Pause execution of a DOS program. (This function is only available in some programs.)
<div style="border: 1px solid black; padding: 5px; text-align: center;"> F12 Break </div>	Stop the currently running DOS program. (This function is only available in some programs.)

Press and hold FN, then
press this system key...

To...



Increase the brightness of the display.



Decrease the brightness of the display.



Mute the sound. Press the key combination again to restore the sound. For more information, see [“Adjusting the volume” on page 48](#).



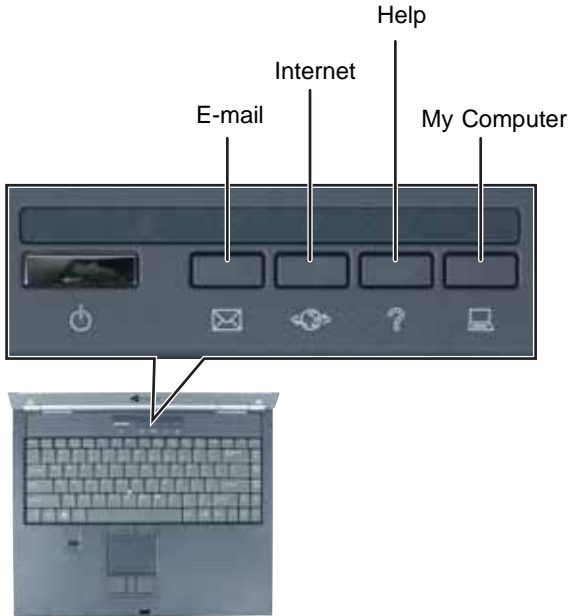
Increase volume. For more information, see [“Adjusting the volume” on page 48](#).







Decrease volume. For more information, see [“Adjusting the volume” on page 48](#).

Multi-function buttons

Press the multi-function buttons to open the programs associated with them.



Button	Icon	Press to...
E-mail		Open your default e-mail program.
Internet		Open your default Web browser.
Help		Open online help.
My Computer		Open the <i>My Computer</i> window.

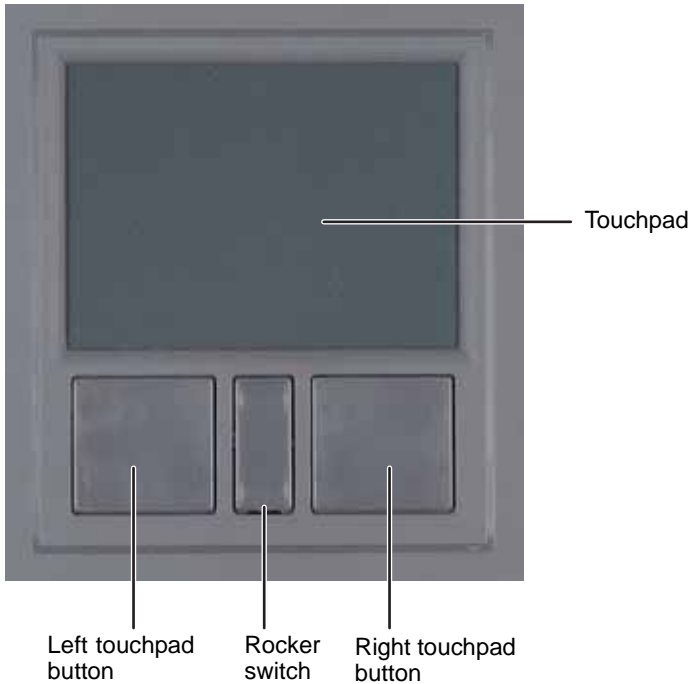
Using the EZ Pad touchpad

Important

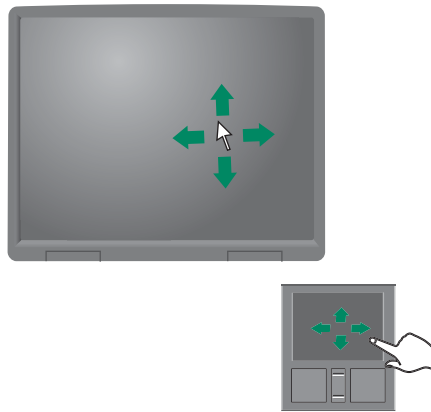


Your notebook was sent from Gateway with the touchpad turned on. For instructions on how to turn the touchpad on or off, see [“Turning the touchpad or pointing device on or off”](#) on page 44.

The EZ Pad™ consists of a touchpad, two buttons, and a rocker switch.



When you move your finger on the touchpad, the *pointer* (arrow) on the screen moves in the same direction.



You can use the EZ-Pad *left* and *right* buttons below the touchpad to select objects. You can assign a function to the *rocker switch* between the touchpad buttons. This function can be to scroll up or down, maximize or minimize the active window, or open and close the Start menu.

Important



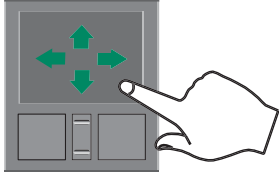
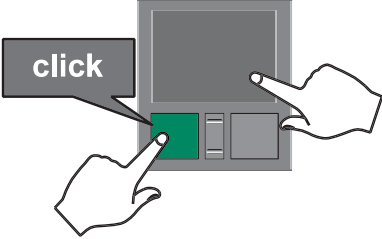
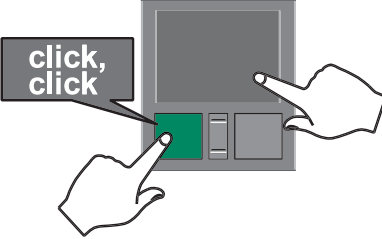
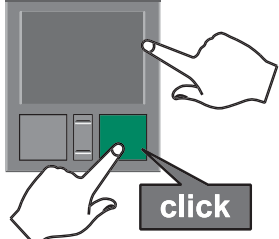
Attaching a PS/2 mouse to your notebook or optional port replicator may turn off the pointing device.

Tips & Tricks



For instructions on how to adjust the double-click speed, pointer speed, right-hand or left-hand configuration, and other touchpad settings, see “Changing the mouse or touchpad settings” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.

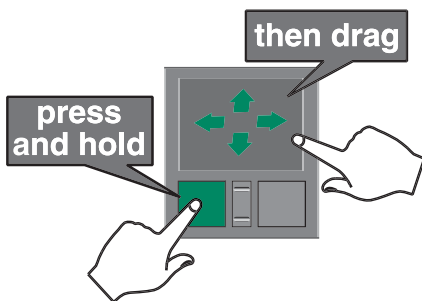
Using the touchpad

To...	Do this...
Move the pointer on the screen.	 <p>Move your finger around on the touchpad. If you run out of space and need to move the pointer farther, lift your finger, move it to the middle of the touchpad, then continue moving your finger.</p>
Select an object on the screen.	 <p>Position the pointer over the object. Quickly press and release the left button once. This action is called <i>clicking</i>.</p>
Start a program or open a file or folder.	 <p>Position the pointer over the object. Press the left button twice in rapid succession. This action is called <i>double-clicking</i>.</p>
Access a shortcut menu or find more information about an object on the screen.	 <p>Position the pointer over the object. Quickly press and release the right button once. This action is called <i>right-clicking</i>.</p>

To...

Do this...

Move an object on the screen.



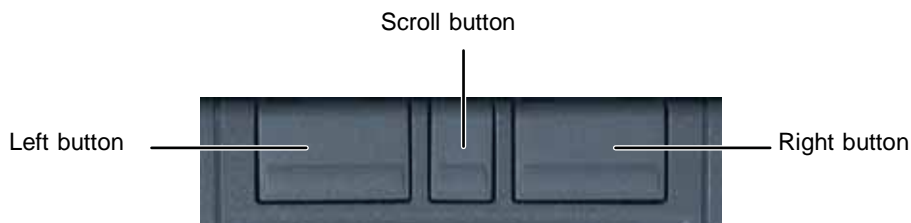
Position the pointer over the object. Press the left button and hold it down, then use the touchpad to move (drag) the object to the appropriate part of the screen. Release the button to drop the object where you want it.

Using the optional EZ Point pointing device

Important



Your notebook was sent from Gateway with the pointing device turned on. For instructions on how to turn the pointing device on or off, see [“Turning the touchpad or pointing device on or off”](#) on page 44.



Button	Function
Pointing device	<ul style="list-style-type: none">▪ Move the <i>pointer</i> (arrow) on the screen or scroll a document on the screen (see Scroll).▪ Single tap to select an item.▪ Double tap to open an item or start a program.▪ Tap and hold, then move the device to move an item.
Left	<ul style="list-style-type: none">▪ Single click to select an item.▪ Double click to open an item or start a program.▪ Click and hold, then move the device to move an item.

Button	Function
Scroll	Press this button to enter scroll mode, then move the pointing device back or forward to scroll through a document.
Right	Access a shortcut menu or find more information about an object on the screen.

Tips & Tricks



For instructions on how to adjust the double-click speed, pointer speed, right-hand or left-hand configuration, and other touchpad settings, see “Changing the mouse or touchpad settings” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.

Important



Attaching a PS/2 mouse to your notebook or optional port replicator may turn off the pointing device.

Replacing the EZ Point pointing device cap

The cap on the pointing device is removable. If the cap becomes worn or damaged, remove the cap from the stick and replace it with one of the spares included with your notebook. If you need to purchase additional caps, visit the Accessory Store at accessories.gateway.com.

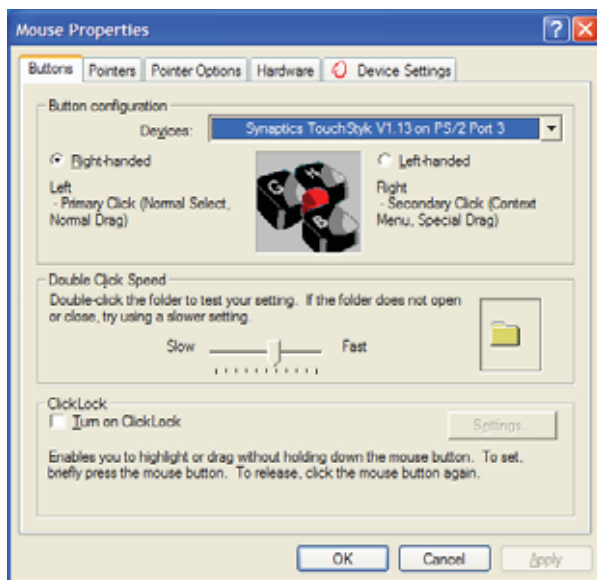


Turning the touchpad or pointing device on or off

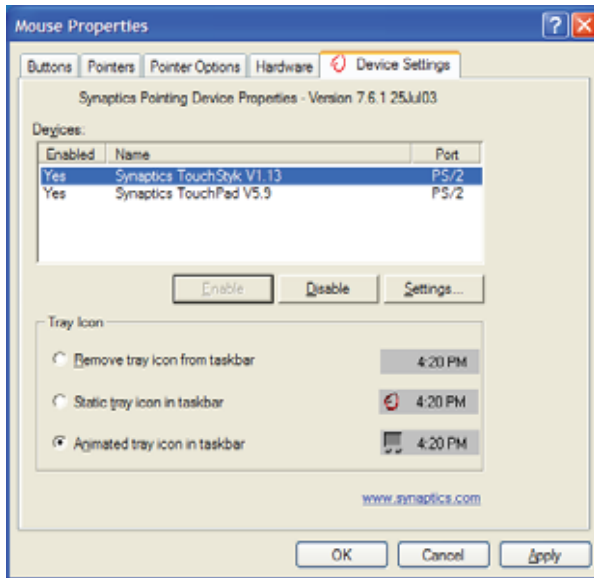
You can turn on or turn off the touchpad and optional pointing device, depending on which device you prefer to use.

To turn the touchpad or optional pointing device on or off:

- 1 Click **Start**, then click **Control Panel**. The *Control Panel* window opens. If your Control Panel is in Category View, click **Printers and Other Hardware**.
- 2 Click/Double-click the **Mouse** icon. The *Mouse Properties* dialog box opens.



- 3 Click the **Device Settings** tab.



- 4 Select the device you want to turn on or turn off, then click **Enable** or **Disable**.



Using the optional fingerprint reader

Your notebook may include the optional fingerprint reader that provides enhanced security and convenience. Features include:

- Secure logon to Windows and fast user switching between user accounts
- Password bank feature which records and replays passwords used in Windows and Web-based applications.
- A *safe* or folder for storing encrypted files that only a user with a matching fingerprint can access
- Boot level security that requires a fingerprint authentication before the system will boot to Windows



Running the TouchStrip Tutorial

Before using the fingerprint reader the first time, you should run the TouchStrip Tutorial which teaches you the correct method to use the fingerprint reader.



To run the TouchStrip Tutorial:

- 1 Click **Start, Protector Suite QL**, then click **TouchStrip Tutorial**.
- 2 Click **Next** to proceed through the tutorial.



Enrolling your fingerprints

Before you can use the features of the fingerprint reader, you must enroll your fingerprints so your notebook can identify you.

Tips & Tricks



You can enroll up to ten fingerprints for a single user account. You can enroll additional people's fingerprints by creating additional user accounts. For instructions on how to add user accounts, see "Adding and modifying user accounts" in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.



To enroll your fingerprints:

- 1 Click **Start, Protector Suite QL**, then click **Welcome**.
- 2 Click **Enroll Now**. The User Enrollment wizard opens.
- 3 Type your Windows password, then click **Next**. The *Enrollment Hints* screen appears.
- 4 If you want to run the TouchStrip Tutorial, leave the **Run interactive tutorial** checkbox selected, then click **Next**. The TouchStrip Tutorial runs. For more information, see "[Running the TouchStrip Tutorial](#)" on page 46. After you have completed the tutorial, the *Enrollment* screen appears.

-OR-

If you do not want to run the TouchStrip Tutorial, click to uncheck the **Run interactive tutorial** checkbox, then click **Next**. The *Enrollment* screen appears.

- 5 Click the button above the finger you are enrolling. A new box appears with three empty circles in it.

- 6 Swipe your finger. A sample will be created and is indicated by a fingerprint icon in one of the circles.
- 7 Repeat [Step 6](#) two more times.



Using the fingerprint reader features

For more information about the fingerprint reader and how to use its features, click **Start, Protector Suite QL**, then click **Help**.

Adjusting the volume

You can use the volume control to adjust the overall volume your notebook.

To adjust the overall volume level using hardware controls:

- If you are using external speakers, turn the knob on the front of the speakers.

-OR-

Use the mute and volume control buttons on the keyboard. For more information, see [“System key combinations” on page 35](#).



Tips & Tricks



For instructions on how to adjust the volume in Windows, see “Adjusting the Volume” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.

Turning your wireless network on or off

Warning



Radio frequency wireless communication can interfere with equipment on commercial aircraft. Current aviation regulations require wireless devices to be turned off while traveling in an airplane. IEEE 802.11a, IEEE 802.11b, and IEEE 802.11g communication devices are examples of devices that provide wireless communication.

Warning



In environments where the risk of interference to other devices or services is harmful or perceived as harmful, the option to use a wireless device may be restricted or eliminated. Airports, Hospitals, and Oxygen or flammable gas laden atmospheres are limited examples where use of wireless devices may be restricted or eliminated. When in environments where you are uncertain of the sanction to use wireless devices, ask the applicable authority for authorization prior to use or turning on the wireless device.



To turn wireless network on or off:

- 1 Click **Start**, then click **Control Panel**. The *Control Panel* window opens. If your Control Panel is in Category View, click **Network and Internet Connections**. The *Network and Internet Connections* window opens.
- 2 Click/Double-click **Network Connections**. The *Network Connections* window opens.
- 3 Right-click **Wireless Network Connection**, then click **Enable** to turn on wireless networking or click **Disable** to turn off wireless networking.



Chapter 4

Using Drives and Ports




- Changing modules
- Using CD or DVD drives
- Using a diskette drive
- Using a media card reader
- Using a PC Card
- Viewing the display on a monitor, projector, or television

Changing modules

Your notebook's modular bay supports different *bay modules*, such as a DVD drive, combination DVD/CD-RW drive, recordable DVD drive, a second hard drive, a diskette drive, a memory card reader, or a secondary battery.




To change bay modules:

- 1 If you are removing a disc drive, diskette drive, or a memory card reader, make sure that the module is empty.
- 2 Click the remove hardware  icon in the taskbar, the drive you are removing, then click **Stop**.

-OR-

Turn off your notebook (do not place it in Standby or Hibernate mode).

Important

If the remove hardware icon does not appear on the taskbar, click the show hidden icons  button.

- 3** Close the LCD panel.
- 4** Disconnect your notebook from the optional port replicator (see [“Disconnecting from the port replicator”](#) on page 101).
- 5** Turn your notebook over so the bottom is facing up.
- 6** Slide and hold the bay module latch closest to the back of your notebook.

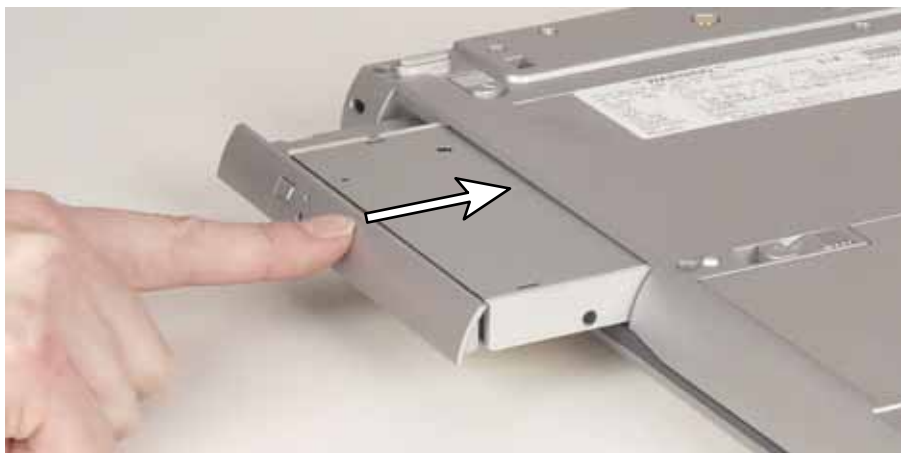


- 7** Slide the other bay module release latch. The module moves out slightly.

- 8 Slide the bay module out.



- 9 Firmly push the new bay module straight into the bay until the latches click into place.



- 10 Turn your notebook over.

- 11** Reconnect the optional port replicator.
- 12** Open the LCD panel.
- 13** If your notebook is on, click **OK** to continue working on your notebook.

- OR -

If your notebook is off, turn it on.





Using the CD or DVD drive

You can use your notebook to enjoy a wide variety of multimedia features.

Identifying drive types

Your Gateway notebook may contain one of the following drive types. Look on the front of the drive for one or more of the following logos:

If your drive has this logo...	This is your drive type...	Use your drive for...
	CD drive	Installing programs, playing audio CDs, and accessing data. You cannot use this drive to create CDs or DVDs or play DVDs.
	DVD drive	Installing programs, playing audio CDs, playing DVDs, and accessing data. You cannot use this drive to create CDs or DVDs.

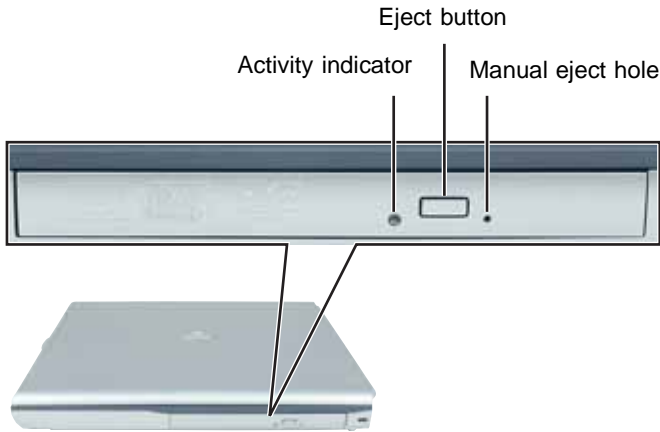
If your drive has this logo...	This is your drive type...	Use your drive for...
	<p>Combination DVD/CD-RW drive</p>	<p>Installing programs, playing audio CDs, playing DVDs, accessing data, and recording music and data to recordable CDs. You cannot use this drive to create DVDs.</p>
	<p>Combination DVD-RW/CD-RW</p>	<p>Installing programs, playing audio CDs, playing DVDs, accessing data, recording music and data to CD-R or CD-RW discs, and recording video and data to DVD-R or DVD-RW discs.</p>
	<p>Combination DVD-RW/DVD-RAM/CD-RW</p>	<p>Installing programs, playing audio CDs, playing DVDs, accessing data, recording music and data to CD-R or CD-RW discs, and recording video and data to DVD-R, DVD-RW, or DVD-RAM discs.</p>
	<p>Combination DVD±R/±RW/CD-RW</p>	<p>Installing programs, playing audio CDs, playing DVDs, accessing data, recording music and data to CD-R or CD-RW discs, and recording video and data to DVD-R, DVD-RW, DVD+R, or DVD+RW discs.</p>

Tips & Tricks



For more information, see [“Creating CDs and DVDs” on page 58](#).

Inserting a CD or DVD



Important



Some music CDs have copy protection software. You may not be able to play these CDs on your notebook.



To insert a CD or DVD:

- 1 Press the eject button on the CD or DVD drive. After the tray opens slightly, pull the disc tray completely open.

Important



If the CD or DVD drive is not in the modular bay, you need to swap modules. For more information about swapping modules, see [“Changing modules” on page 52](#).

- 2 Place the disc in the tray with the label facing up, then press down carefully on the disc until it snaps into place.

Important



When you place a single-sided disc in the tray, make sure that the label side is facing up. If the disc has two playable sides, place the disc so the name of the side you want to play is facing up.

- 3 Push the tray in until it is closed.



Playing a CD

Use the music program or Windows Media Player on your notebook to:

- Play music CDs
- Create MP3 music files from your music CDs
- Edit music track information
- Use your music files to build a music library
- Listen to Internet Radio

Tips & Tricks



For more information about playing CDs, see “Playing CDs” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.

Playing a DVD

A Digital Versatile Disc (DVD) is similar to a CD but has greater data capacity. Because of this increased capacity, full-length movies, several albums of music, or several gigabytes of data can fit on a single disc. You can play DVDs with the DVD program or Windows Media Player.

Tips & Tricks



For more information about playing DVDs, see “Playing DVDs” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.

Creating CDs and DVDs

You can use the CD and DVD burning program on your notebook to copy tracks from a music CD to your hard drive, copy or create data CDs and DVDs, create music CDs, create video DVDs, and more.

Tips & Tricks



For more information about creating CDs and DVDs, see “Creating CDs and DVDs” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.

Using the optional diskette drive

The diskette drive uses 3.5-inch diskettes (sometimes called *floppy disks*). Diskettes are useful for storing files or transferring files to another computer.

Warning

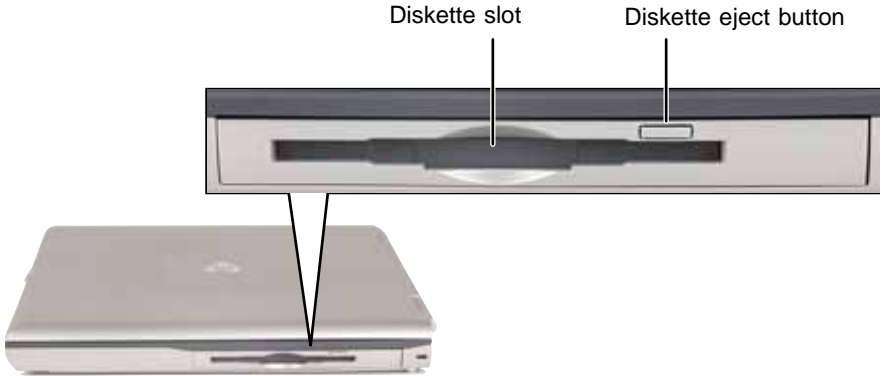


Do not expose diskettes to water or magnetic fields. Exposure could damage the data on the diskette.

Tips & Tricks



If your notebook did not come with a diskette drive, you can order one from Gateway.



To use a diskette:

- 1 Insert the diskette into the diskette drive with the label facing up.

Important



If the diskette drive is not in the modular bay, you need to swap modules. For more information about swapping modules, see [“Changing modules” on page 52](#).

- 2 To access a file on the diskette, click **Start**, then click **My Computer**. Double-click the drive letter (for example, the A: drive), then double-click the file name.
- 3 To remove the diskette, make sure that the modular drive status indicator (see [“Status indicators” on page 32](#)) is off, then press the diskette eject button.



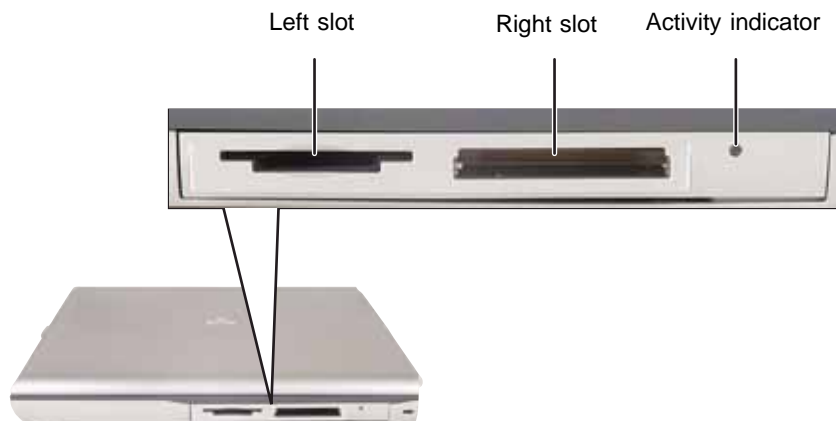
Using the optional memory card reader

Tips & Tricks



If your notebook did not come with a memory card reader, you can order one from Gateway.

You can use memory cards to transfer pictures from a digital camera to your notebook. You can also use the memory card reader to transfer data between your notebook and a device that uses memory cards, such as a PDA, MP3 player, or cellular telephone.



Memory card types

The memory card reader supports the following card types.

Card Type	Slot	Card Type	Slot
CompactFlash [®]	right	MultiMediaCard [™]	left
IBM Microdrive [™]	right	Secure Digital [™]	left
Memory Stick [®]	left	SmartMedia [™] (3.3V only)	left

Each slot is assigned a different drive letter (for example, the E: and F: drives) so data can be transferred from one card type to another.

Using a memory card

Important



If the memory card reader is not in the modular bay, you need to swap modules or use the reader externally. For more information about swapping modules, see [“Changing modules” on page 52](#). For more information about using the reader externally, see [“Using the memory card reader externally” on page 63](#).



To insert a memory card:

- 1 Insert the memory card into the memory card slot with the label facing up and the arrow on the label pointing towards your notebook.

Important



Insert the SmartMedia card with the label facing down. Your notebook only accepts 3.3V SmartMedia cards.



- 2 To access a file on the memory card, click **Start**, then click **My Computer**. Double-click the drive letter (for example, the E: drive), then double-click the file name.




 **To remove a memory card:**

- Make sure that the modular drive status indicator (see [“Status indicators” on page 32](#)) is off, then pull the memory card out of the notebook.



Important



Do not use the remove hardware  icon in the taskbar to remove the memory card.

Using the memory card reader externally

You can use the memory card reader without inserting it in the modular bay.

To use the memory card reader externally:

- 1 Plug the cable that has been provided into the port on the memory card reader.



- 2 Plug the other end of the cable into a USB port on your notebook or port replicator.



Adding and removing a PC Card

Your notebook has a two PC Card slots (also known as a PCMCIA card slots). These slots accept two Type II cards or one Type III card.


You do not need to restart your notebook when changing most cards because your notebook supports *hot-swapping*. Hot-swapping means that you can insert a PC Card while your notebook is running. If your PC Card does not work after hot-swapping, see the PC Card manufacturer's documentation for further information.

To insert a PC Card:

- Push the card firmly into the PC Card slot label-side up until the outer edge of the card is flush with the side of your notebook.



 **To remove a PC Card:**


- 1 Click the remove hardware  icon in the taskbar, the PC Card name, then click **Stop**.

-OR-

Turn off your notebook.

Important



If the remove hardware icon does not appear on the taskbar, click the show hidden icons  button.

- 2 Release the eject button by pressing the PC Card eject button once.
- 3 Eject the PC Card by pressing the eject button again.



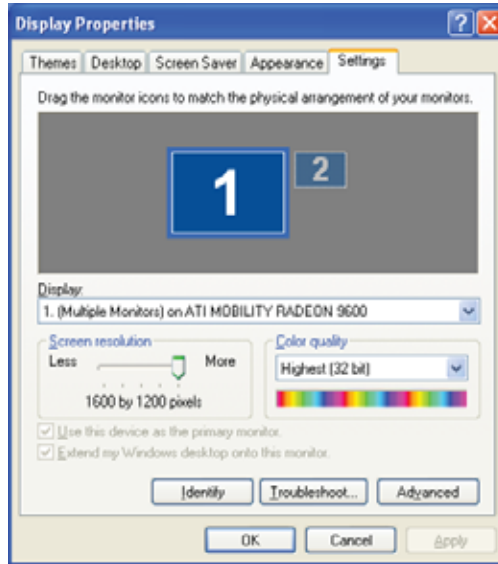
Viewing the display on a projector or monitor

You can use your notebook for giving presentations by connecting an external monitor or projector to your monitor (VGA) port. Your notebook supports simultaneous LCD and CRT display. Simultaneous display lets you control the presentation from your notebook and at the same time face your audience.

To use a projector or external monitor:

- 1 Turn off your notebook.
- 2 Plug the projector or monitor cable into the VGA port on your notebook or optional port replicator. For the location of the VGA port, see [“Back” on page 14](#) or [“Back” on page 98](#).
- 3 Turn on your notebook.
- 4 Plug the projector’s or monitor’s power cord into an AC power source and turn it on. Windows recognizes the new hardware and searches for its driver. You may need to install the driver from the disc supplied by the manufacturer or download the driver from the manufacturer’s Web site.
- 5 After the driver is installed, right-click any empty space on the desktop, then click **Properties**. The *Display Properties* dialog box opens.

- 6 Click the **Settings** tab.



- 7 Right-click the second monitor icon (labeled 2), then click **Attached**.
- 8 Click **Apply**.
- 9 Adjust properties such as **Screen Resolution** or **Color Quality** if necessary.
- 10 Click **OK**.



Important



Press FN+F3 to switch between viewing the display on the LCD panel and viewing the display on the projector or monitor.

Important



If an external monitor or projector is connected and you close the LCD panel, your notebook may turn off the LCD panel, but will not enter Standby mode.

Viewing the display on a television

The TV out (NTSC/PAL Composite Video) jack on your notebook lets you view your notebook display on a television screen using a standard RCA video cable. The S-Video out jack on your port replicator lets you view your notebook display on a television screen using a standard S-Video cable.

Important



To turn on external video by default, connect the television (or other external video device) before starting your notebook.

Important



Audio is not transmitted through the S-Video out jack. Use the built-in speakers, a set of headphones or external powered speakers, or connect your notebook to a stereo system using the S/PDIF jack to hear sound while playing a DVD. DVD playback to a VCR will be scrambled by copyright protection software.



To view your notebook display on a television:

1 With your notebook off, connect one end of a standard RCA video cable to the TV out (Composite Video) jack on your notebook. For the location of the TV out jack on your notebook, see [“Back” on page 14](#).

- OR -

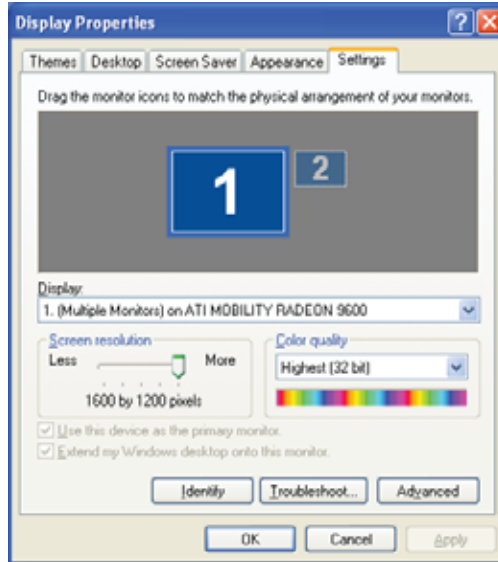
With your notebook off, connect one end of a standard S-Video cable to the S-Video out jack on your port replicator. For the location of the S-Video out jack on your port replicator, see [“Back” on page 98](#).

2 Connect the other end of the cable to the Video in jack on your television or VCR.

3 Turn on the television or VCR.

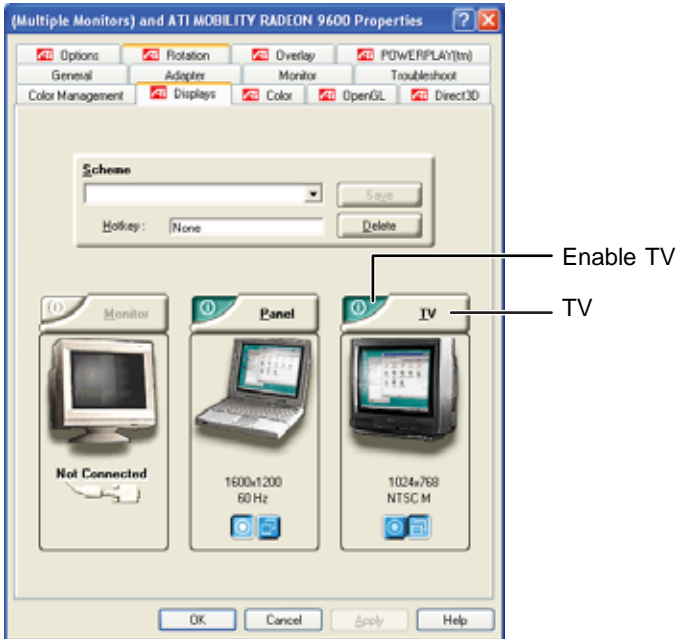
4 Start your notebook.

- 5 Click **Start**, then click **Control Panel**. The *Control Panel* window opens. If your Control Panel is in Category View, click **Appearance and Themes**.
- 6 Click/Double-click the **Display** icon. The *Display Properties* dialog box opens.
- 7 Click the **Settings** tab.



- 8 Click **Advanced**. The *Multiple Monitors and ATI Mobility Radeon 9600 Properties* dialog box opens.

9 Click the **Displays** tab.



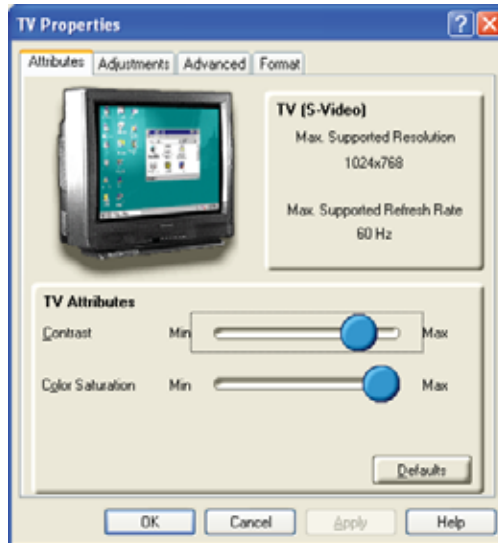
10 Click the Enable TV button if it is not already enabled.

Important



If the Enable TV and TV buttons are grayed out, your notebook has not detected the television. Make sure that the television is turned on and connected correctly.

- 11 Click **TV** to make any adjustments to the TV settings.



Important



If you are traveling internationally, you may need to change the video standard. For example, many televisions in Asia use PAL instead of NTSC.

- 12 Click **Apply**.
- 13 Click **OK** to close the *Multiple Monitors and ATI Mobility Radeon 9600 Properties* dialog box.



Chapter 5

Managing Power





- Checking and recharging the battery
- Recalibrating the battery
- Changing batteries
- Extending the life of the battery

Monitoring the battery charge

Your new Gateway notebook is designed to provide an exceptional balance of performance and portability. Your notebook uses the latest chipset and mobile processor technologies to manage the processor speed and power consumption for a greater battery life experience. This design provides you with maximum performance when plugged into AC power balanced with optimized battery life when on battery power.


Closely monitor the battery charge. When the battery charge gets low, change the battery or connect to AC power immediately to prevent losing any unsaved work.

To monitor the battery charge:

- Double-click the power cord icon  or battery icon  in the taskbar. The *Power Meter* dialog box opens.

Important



If the power cord or battery icon does not appear on the taskbar, click the show hidden icons  button. If the icon still does not appear, make sure that **Always show icon on the taskbar** is checked on the Power Options Properties Advance tab.

For more information, see “Changing advanced settings” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start**, **All Programs**, then click **Gateway Documentation**.

- Press **FN+STATUS** to view the power status box, which opens in the upper-left corner of the screen. The power status box shows the current power source, the battery charge level, and the power management mode.
- Look at the battery charge indicator:
 - LED green - main and optional secondary battery are fully charged.
 - LED orange - main or optional secondary battery is charging.
 - LED blinking red - main and optional secondary battery charge are very low.
 - LED solid red - main or optional secondary battery is malfunctioning.

Important



This LED only lights up when the notebook is connected to AC power. For the location of the battery charge indicator, see [“Front” on page 10](#).


- Press the battery meter buttons on the main battery and optional secondary battery. The battery meter lights indicate the percentage of battery charge remaining.



- Wait for a Low Battery warning message to appear.


If your battery charge indicator displays what looks like an inaccurate charge, you may need to recalibrate the battery. For more information, see [“Recalibrating the batteries” on page 77](#).

Recharging the batteries

The main and optional secondary batteries recharge while they are installed and your notebook is connected to AC power. While the batteries are recharging, the battery charge indicator turns on and the battery icon in the taskbar has a lightning bolt .

Important



If the power cord or battery icon does not appear on the taskbar, click the show hidden icons  button. If the icon still does not appear, make sure that **Always show icon on the taskbar** is checked on the Power Options Properties Advance tab.

For more information, see “Changing advanced settings” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start**, **All Programs**, then click **Gateway Documentation**.

Recalibrating the batteries

If your notebook unexpectedly goes into Standby mode while you are using it but the battery charge is not low, you may need to recalibrate your main and optional secondary battery. You should also recalibrate the batteries periodically to maintain the accuracy of the battery gauge.

To recalibrate the batteries:

- 1 Connect the AC adapter, then turn on your notebook.
- 2 As soon as it starts and you see a startup screen, press **F2**. The BIOS Setup utility opens.
- 3 Open the **Advanced** menu.
- 4 Highlight **Battery Auto Learning**, then select **Enabled** by pressing the spacebar.
- 5 Open the **Exit** menu, then highlight **Exit Saving Changes** and press **ENTER**.
- 6 Select **Yes**, then press **ENTER**.

The battery recalibration process begins and a screen opens showing you the progress. The entire process will take several hours.

Important



Do not interrupt the battery recalibration process. If recalibration is interrupted, you must start the process over again.

When the recalibration has finished, the message “Press [Esc] key to exit” appears.

- 7 Press **Esc**. The battery charge indicator now displays an accurate battery charge. If the battery charge indicator does not show an accurate charge, contact Gateway Technical Support.



Changing batteries

If your notebook is connected to AC power or if it has a charged secondary battery installed, you can change the main battery while the notebook is turned on. If your notebook has only one battery and it is not plugged into an AC outlet, you must turn the notebook off while changing the battery.

Warning

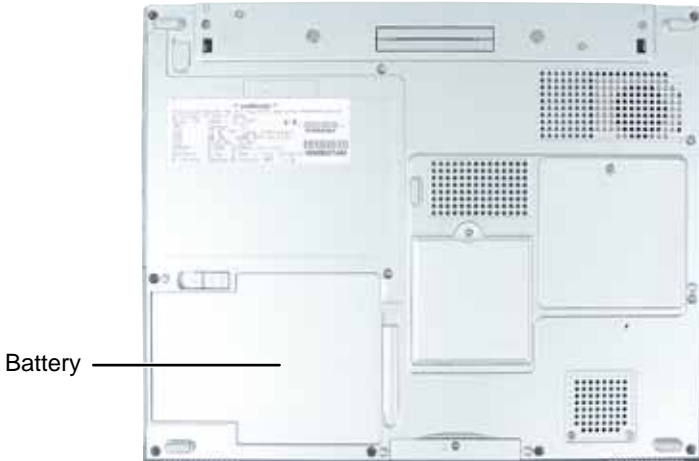


Danger of explosion if battery is incorrectly replaced.

Replace only with a battery specifically manufactured for your Gateway notebook. Discard used batteries according to the manufacturer's instructions.

The battery used in this device may present a fire or chemical burn hazard if mishandled. Do not disassemble, heat above 212°F (100°C), or incinerate. Dispose of used battery promptly. Keep away from children.

Replacing the main battery



 **To replace the main battery:**

- 1** If your notebook is on and is connected to AC power or has a charged secondary battery installed, go to [Step 2](#).

-OR-

If your notebook is on, is not plugged into an AC outlet, and does not have a charged secondary battery installed, save your work and turn off the notebook.

- 2** Close the LCD panel.
- 3** Disconnect your notebook from the optional port replicator (see [“Disconnecting from the port replicator”](#) on page 101).
- 4** Turn your notebook over so the bottom is facing up.
- 5** Slide the battery release latch.



- 6 Lift the battery out of the bay.



- 7 Place a recharged battery into the bay and press down until it snaps into place.
- 8 Turn your notebook over.
- 9 Reattach the optional port replicator.
- 10 Open the LCD panel and press the power button.



Installing a secondary battery

Your notebook's modular bay accepts a secondary battery. The secondary battery charges when the notebook is connected to AC power.

Warning



Danger of explosion if battery is incorrectly replaced.

Replace only with a battery specifically manufactured for your Gateway notebook. Discard used batteries according to the manufacturer's instructions.

The battery used in this device may present a fire or chemical burn hazard if mishandled. Do not disassemble, heat above 212°F (100°C), or incinerate. Dispose of used battery promptly. Keep away from children.

To install a secondary battery:

- Swap the secondary battery for a bay module by following the instructions in ["Changing modules" on page 52](#).



Extending battery life

Conserving battery power

To conserve power while using the battery to power your notebook:

- Dim the display as low as is comfortable.
- Remove PC Cards and IBM Microdrive cards when you do not need them. Many PC Cards and Microdrive cards use a small amount of power while inserted, even if they are not being used.
- Modify the power management settings for maximum power savings.

Tips & Tricks



For more information about using power management settings, see “Changing Power-saving Settings” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.

- Close the LCD panel to turn off the display while you are not using your notebook. The display stays off until you open the panel again.
- Use Hibernate mode for maximum power savings while your notebook is not in use.

Tips & Tricks



For more information about using Hibernate mode, see “Activating and using Hibernate mode” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.

- Using the CD, DVD, or recordable drive only when necessary. These drives use a large amount of power.
- Recharge the battery often, take an extra battery, and fully recharge the batteries before traveling. For more information, see [“Recharging the batteries” on page 76](#) and [“Changing batteries” on page 78](#).

Using alternate power sources

To extend battery life, use alternate power sources whenever possible.

- If traveling internationally, take electrical adapters. Save the battery for times when you cannot use a power adapter. If you plan on taking your AC power adapter, also take a single-plug surge protector.
- If you will have access to an EmPower™ in-flight power receptacle or an automobile cigarette lighter, use a power inverter. Save the battery for times when you cannot use a power adapter.
- To find AC power outlets in airports, look for them next to support pillars, in large areas such as boarding gates, and under banks of telephones.

Changing power modes

You can use the following power modes to lengthen the life of your notebook's battery:

- *Standby* - while your notebook is in Standby, it switches to a low power state where devices, such as the display and drives, turn off.
- *Hibernate* - (also called *save to disk*) writes all current memory (RAM) information to the hard drive, then turns your notebook completely off. The next time you turn on your notebook, it reads the memory information from the hard drive and opens the programs and documents that were open when you activated Hibernate mode.

Using power saving modes

Always save your work before using Standby mode. In Standby mode, your notebook reduces or turns off the power to most devices except memory. However, the information in memory is not saved to the hard drive. If power is interrupted, the information is lost.

When in Hibernate mode, your notebook saves all memory information to the hard drive, then turns the power completely off.

If your notebook is...	...and you want to...	...then
On	Enter Standby mode	Press FN+STANDBY .
On	Enter Hibernate mode (must be activated)	Click Start , then click Turn Off Computer . Press and hold SHIFT , then click Hibernate .
In Standby or Hibernate mode	Exit Standby or Hibernate mode	Press the power button.

Chapter 6

Upgrading Your Notebook



- Adding and replacing memory
- Replacing the hard drive

Preventing static electricity discharge

Important



Before installing memory or replacing the hard drive, you should read and understand the information in this section.

The components inside your notebook are extremely sensitive to static electricity, also known as *electrostatic discharge* (ESD).

Warning



To avoid exposure to dangerous electrical voltages and moving parts, turn off your notebook and unplug the power cord, modem cable, and network cable before opening the case.

Warning



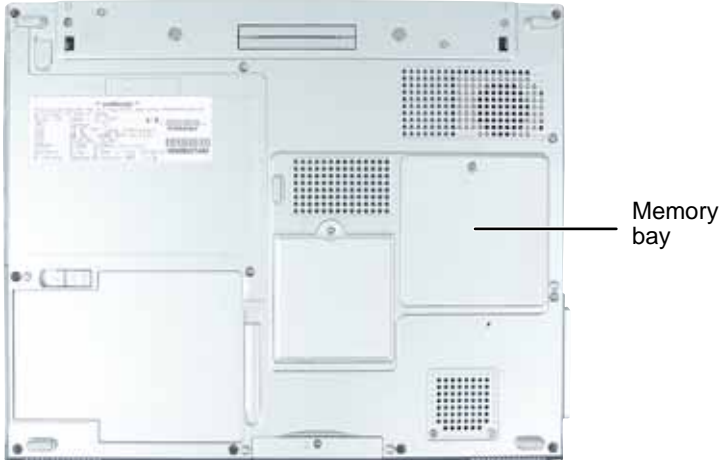
To prevent risk of electric shock, do not insert any object into the vent holes of the notebook.

Before installing memory or replacing the hard drive, follow these guidelines:

- Avoid static-causing surfaces such as carpeted floors, plastic, and packing foam.
- Remove components from their antistatic bags only when you are ready to use them. Do not lay components on the outside of antistatic bags because only the inside of the bags provide electrostatic protection.
- Always hold components by their edges. Avoid touching the edge connectors. Never slide components over any surface.
- Wear a grounding wrist strap (available at most electronics stores) and attach it to a bare metal part of your workbench or other grounded connection.
- Touch a bare metal surface on your workbench or other grounded object.

Adding or replacing memory

Your notebook uses memory modules called SO-DIMMs (Small Outline Dual Inline Memory Modules). The modules are available in various capacities and any module can be placed in any available slot. Use only memory modules designed for the Gateway 450ROG or Gateway 450RGH for upgrading your memory.



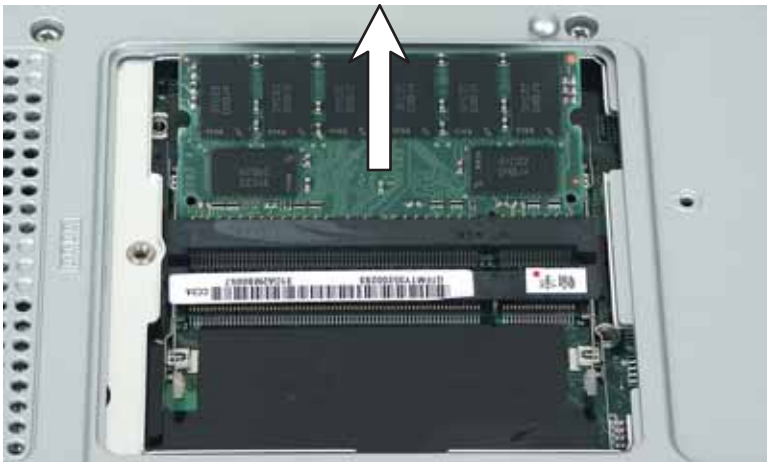
To add or replace memory modules:

- 1 Follow the guidelines under [“Preventing static electricity discharge” on page 86](#).
- 2 Turn off your notebook.
- 3 Disconnect the AC adapter, modem cable, and network cable.
- 4 Disconnect all peripheral devices and remove any PC cards.
- 5 Disconnect your notebook from the optional port replicator (see [“Disconnecting from the port replicator” on page 101](#)).
- 6 Turn your notebook over so the bottom is facing up.
- 7 Remove the main and secondary batteries. For more information, see [“Changing batteries” on page 78](#).
- 8 Loosen the memory bay cover screw. This screw cannot be removed.

- 9 Remove the memory bay cover.
- 10 If you are removing a module, gently press outward on the clip at each end of the memory module until the module tilts upward.



- 11 Pull the memory module out of the slot.

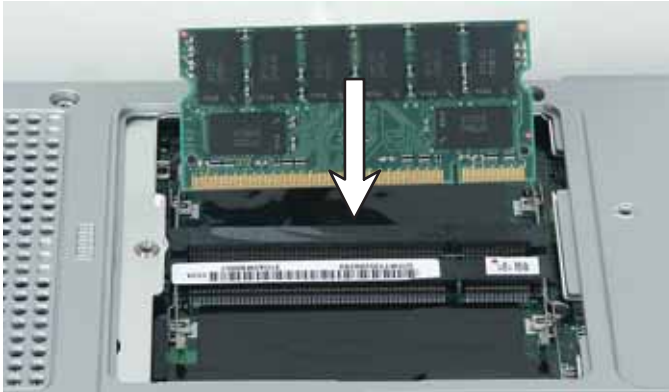


- 12 Hold the new or replacement module at a 30-degree angle and press it into the empty memory slot. This module is keyed so it can only be inserted in one direction. If the module does not fit, make sure that the notch in the module lines up with the tab in the memory bay.

Important



Use only memory modules designed for the Gateway 450ROG or Gateway 450RGH.

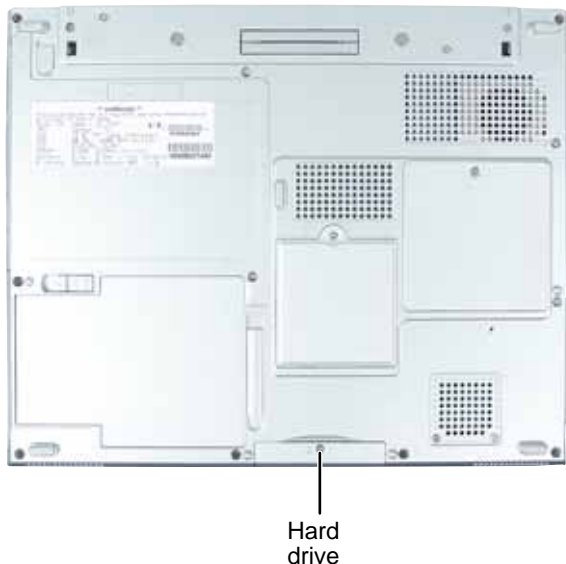


- 13 Gently push the module down until it clicks in place.
- 14 Replace the memory bay cover and tighten the cover screw.
- 15 Insert the batteries, then turn your notebook over.
- 16 Reconnect the optional port replicator.
- 17 Connect the power adapter, modem cable, and network cable, then turn on your notebook.



Replacing the hard drive kit

If you would like more hard drive capacity, you can replace your original drive with a higher-capacity drive.



To replace the hard drive kit:

- 1** Back up any data you want to transfer to the new hard drive. For more information, see “Backing up files” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.
- 2** Follow the guidelines under “Preventing static electricity discharge” on page 86.
- 3** Turn off your notebook.
- 4** Disconnect the AC adapter, modem cable, and network cable.
- 5** Disconnect all peripheral devices and remove any PC cards.
- 6** Disconnect your notebook from the optional port replicator (see “Disconnecting from the port replicator” on page 101).

- 7 Turn your notebook over so the bottom is facing up.
- 8 Remove the main and secondary batteries. For more information, see ["Changing batteries" on page 78.](#)
- 9 Remove the hard drive kit screw.



- 10 Slide the old hard drive kit out of your notebook.



- 11** If your new hard drive already includes the hard drive kit bracket, go to [Step 16](#).

-OR-

If you need to move the hard drive kit bracket from your old hard drive kit to your new hard drive, go to [Step 12](#).

- 12** Remove the two screws that secure the hard drive to the hard drive kit bracket.



- 13 Remove the bracket from the old drive.



- 14 Insert the new drive into the bracket so the screw holes line up and the plastic strip on the top of the bracket is positioned as shown.

Plastic strip



- 15** Replace the two screws that secure the bracket to the drive.
- 16** Slide the new hard drive kit into your notebook.
- 17** Replace the screw that secures the hard drive kit to your notebook.
- 18** Insert the batteries and turn your notebook over.
- 19** Reconnect the optional port replicator.
- 20** Connect the power adapter, modem cable, and network cable, then turn on your notebook.
- 21** For instructions on installing Windows, your drivers, and your applications, see the instructions that were included with the restore discs.



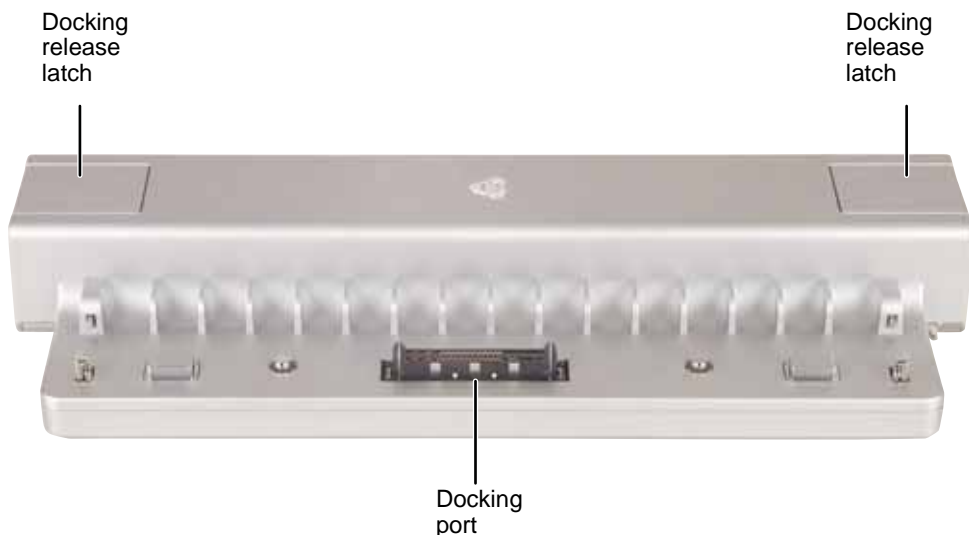
Chapter 7


Using the Optional Port Replicator



- Identifying features
- Connecting and disconnecting the port replicator
- Securing the port replicator with a locking cable

Front




Component	Icon	Description
Docking release latch		Press both release latches to release the notebook.
Docking port		Connect the notebook to this port. Warning! Power is passed through this port. This docking connection is certified to UL 1950 for use only with notebooks designed for your Gateway port replicator.

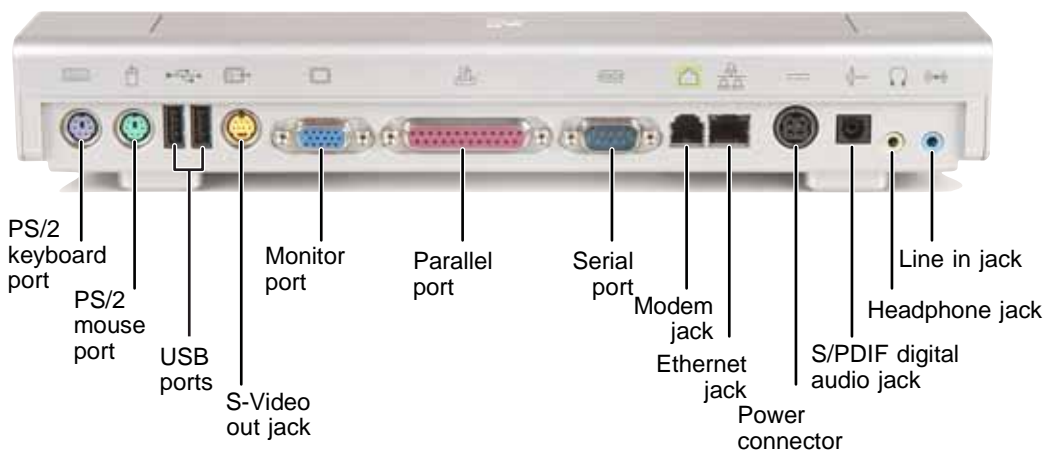
Left









Power
connector

Component	Icon	Description
Power connector		Plug the AC adapter cable into this connector. Important: The power connector may be located on the back of your port replicator.

Back



Component	Icon	Description
PS/2 keyboard port		Plug a PS/2 keyboard into this port. Attaching a PS/2 keyboard to your port replicator may deactivate the built-in keyboard.
PS/2 mouse port		Plug a PS/2 mouse into this port. Attaching a PS/2 mouse to your port replicator may deactivate the touchpad or pointing device.
USB ports		Plug USB (Universal Serial Bus) devices (such as a flash drive, Iomega™ Zip™ drive, printer, scanner, camera, keyboard, or mouse) into these ports.
S-Video out jack		Plug a standard S-Video cable into this jack and the jack on an S-Video device.
Monitor port		Plug an analog VGA monitor or projector into this port. For more information, see “Viewing the display on a projector or monitor” on page 66.
Parallel port		Plug a parallel device (such as a printer) into this port.
Serial port		Plug a serial device (such as a digital camera) into this port.

Component	Icon	Description
Modem jack		Plug a modem cable into this jack.
Ethernet jack		Plug a 10/100/1000 Ethernet network cable into this jack.
Power connector		Plug the AC adapter cable into this connector. Important: If your port replicator has a power connector on the left side (see “Left” on page 97), plug the Gateway 450ROG or Gateway 450RGH AC adapter into that connector. If your port replicator does not have a power connector on the left side, plug the AC adapter into this connector.
S/PDIF digital audio jack		Plug an optical (Toslink) AC-3 digital audio cable into this jack.
Headphone jack		Plug amplified speakers or headphones into this jack. The built-in speakers on the notebook are turned off when speakers or headphones are plugged into this jack. This jack is turned off when headphones are plugged into the notebook’s headphone jack.
Line in jack		Connect an external audio input source (such as a stereo) to this jack so you can record sound on your notebook or play sound through the notebook speakers.

Connecting to the port replicator

You can attach your notebook to the port replicator while your notebook is off, on, or in Standby mode.

Attaching to the port replicator

▶ To attach your notebook to the port replicator:

- 1 Connect external devices to the ports on the port replicator.
- 2 Align the connector holes on the bottom of your notebook with the docking posts on the port replicator.
- 3 Press down on the notebook until it snaps into place.



Caution



Press down on the outside edges of the notebook. Do not press in the middle or you may damage the LCD screen.

Important

The notebook may detect additional devices and add drivers after being attached to the port replicator. This process must be completed for components to work correctly. Follow any on-screen instructions, if necessary.

Disconnecting from the port replicator

You can separate your notebook from the port replicator while your notebook is off or on (not in Standby or Hibernate mode).

To separate your notebook from the port replicator:

- 1 If your notebook is off, go to [Step 2](#).

-OR-

If your notebook is on, click **Start**, then click **Undock Computer**. The Undock Computer menu item appears in the Start menu only while the notebook is docked.

- 2 Press down on the docking release latch. The notebook will spring up slightly.



- 3 Lift the notebook off of the port replicator.



Securing your port replicator

You can secure your notebook and port replicator to an object by using the security ring located on the right side of the port replicator and the Kensington lock slot located on the right side of your notebook.

 **To secure your notebook and port replicator:**

- 1** Open the security ring on the port replicator.
- 2** Attach your notebook to the port replicator.
- 3** Secure one end of the Kensington cable to a solid object, then run the other end of the cable through the security ring and lock it into the slot provided on the right side of your notebook.



Chapter 8

Maintaining Your Notebook



- Caring for your notebook
- Cleaning your notebook
- Protecting your notebook from viruses
- Updating Windows
- Restoring your system

Caring for your notebook

To extend the life of your notebook:

- Be careful not to bump or drop your notebook, and do not put any objects on top of it. The case, although strong, is not made to support extra weight.
- When transporting your notebook, we recommend that you put it in a carrying case.

Tips & Tricks



For more information about traveling with your notebook, see “Traveling With Your Notebook” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.

- Keep your notebook away from magnetic fields. Magnetic fields can erase data on hard drives.
- Never turn off your notebook when the hard drive light is on because data on the hard drive could be lost or corrupted.
- Avoid subjecting your notebook to extreme temperature changes. The case (and LCD panel) can become brittle and easy to break in cold temperatures and can melt or warp in high temperatures. Damage due to either extreme is not covered by your warranty. As a general rule, your notebook is safest at temperatures that are comfortable for you.
- Keep all liquids away from your notebook. When spilled onto notebook components, almost any liquid can result in extremely expensive repairs that are not covered under your warranty.
- Avoid dusty or dirty work environments. Dust and dirt can clog the internal mechanisms and can lead to permanent damage to the notebook.
- Do not block the ventilation fan slots. If these slots are blocked, your notebook may overheat resulting in unexpected shutdown or permanent damage to the notebook.
- When storing your notebook for an extended period of time, unplug AC power and remove the battery after discharging it partway.

Cleaning your notebook

Keeping your notebook clean and the vents free from dust helps keep your notebook performing at its best. You may want to gather these items and put together a notebook cleaning kit:

- A soft, lint-free cloth
- An aerosol can of air that has a narrow, straw-like extension
- Cotton swabs
- A DVD drive cleaning kit

Cleaning the exterior

Warning



When you shut down your notebook, the power turns off, but some electrical current still flows through your notebook. To avoid possible injury from electrical shock, unplug the power cord, modem cable, and network cable from the wall outlets.

Always turn off your notebook and other peripherals before cleaning any components. Also, remove the battery before cleaning any components.

Use a damp, lint-free cloth to clean your notebook and other parts of your system. Do not use household abrasive or solvent cleaners because they can damage the finish on components.

Your notebook is cooled by air circulated through the vents on the case, so keep the vents free of dust. With your notebook turned off and unplugged, brush the dust away from the vents with a damp cloth. Be careful not to drip any water into the vents. Do not attempt to clean dust from the inside of your notebook.

Cleaning the keyboard

You should clean the keyboard occasionally by using an aerosol can of air with a narrow, straw-like extension to remove dust and lint trapped under the keys.

If you spill liquid on the keyboard, turn off your notebook and turn the notebook upside down. Let the liquid drain, then let the keyboard dry before trying to use it again. If the keyboard does not work after it dries, you may need to replace it.

Cleaning the notebook screen

To clean a notebook LCD screen, use a soft cloth and water to clean the LCD screen. Squirt a little water on the cloth (never directly on the screen), and wipe the screen with the cloth.

Caution



A notebook LCD screen is made of specially coated glass and can be scratched or damaged by abrasive or ammonia-based glass cleaners.

Cleaning CDs or DVDs

Wipe from the center to the edge, not around in a circle, using a product made especially for the purpose.



Protecting your notebook from viruses

A *virus* is a program that attaches itself to a file on a computer, then spreads from one computer to another. Viruses can damage data or cause your notebook to malfunction. Some viruses go undetected for a period of time because they are activated on a certain date.

Protect your notebook from a virus by:

- Registering your copy of Norton AntiVirus and subscribing to the virus definition update service. You received a free limited time subscription to the Norton AntiVirus service when you purchased your notebook.
- Using the Norton® AntiVirus program to check files and programs that are attached to e-mail messages or downloaded from the Internet.
- Checking all programs for viruses before installing them.
- Disabling macros on suspicious Microsoft Word and Excel files. These programs will warn you if a document that you are opening contains a macro that might have a virus.
- Periodically updating the Norton AntiVirus program to protect against the latest viruses.
- Making sure the Windows Security Center is configured to provide you with the highest level of protection.

Tips & Tricks



For more information about modifying security settings, see “Modifying Security Settings” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.

Help and Support

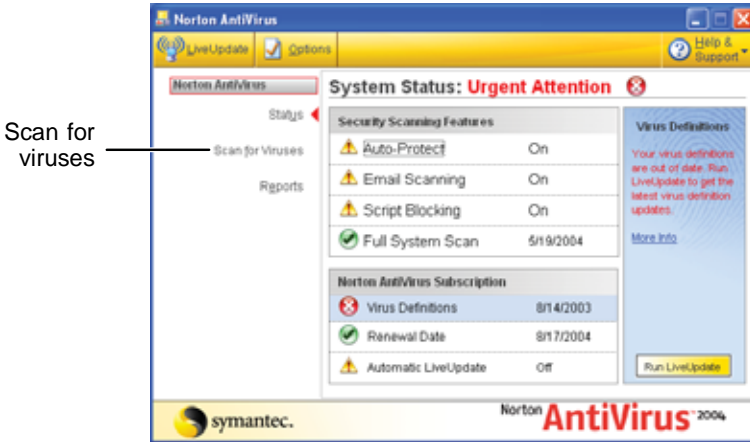


For more information about protecting your computer against viruses, click **Start**, then click **Help and Support**. Type the keyword **viruses** in the **Search** box

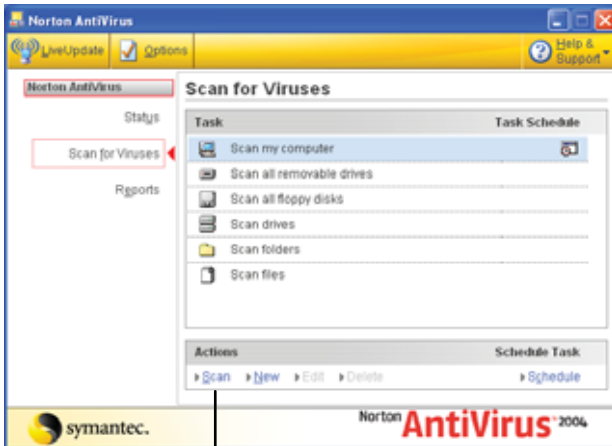
Search , then click the arrow.

 **To scan for viruses:**

- 1 Click **Start, All Programs, Norton AntiVirus**, then click **Norton AntiVirus 2004**. Norton AntiVirus opens.



- 2 Click **Scan for Viruses**.



- 3 Click the type of scan you want to make in the Scan for Viruses area, then under Actions, click **Scan**.





To remove a virus:

- 1 If Norton AntiVirus finds a virus, follow all on-screen instructions to remove the virus.
- 2 Turn off your notebook and leave it off for at least 30 seconds.
- 3 Turn on your notebook and rescan for the virus.



To update Norton AntiVirus:

Important



You received a free limited time subscription to the Norton AntiVirus service when you purchased your notebook. To update Norton AntiVirus after the free subscription period, you must extend your subscription.

- 1 Make sure that you are connected to the Internet.
- 2 Click **Start, All Programs, Norton AntiVirus**, then click **LiveUpdate - Norton AntiVirus**. The LiveUpdate wizard opens.
- 3 Follow the on-screen instructions to update your Norton AntiVirus program with the latest virus protection files.
- 4 When the program has finished, click **Finish**.



Updating Windows

Windows Update is the online extension of Windows that helps you to keep your notebook up-to-date. Use Windows Update to choose updates for your notebook's operating system, software, and hardware. New content is added to the site regularly, so you can always get the most recent updates and fixes to protect your notebook and keep it running smoothly. Windows Update scans your notebook and provides you with a tailored selection of updates that apply only to the software and hardware on your notebook.


To run Windows Update:

- 1 Connect to the Internet.
- 2 Click **Start**, **All Programs**, then click **Windows Update**.
- 3 Follow the on-screen instructions.



Help and Support



For more information about Windows Update in Windows XP, click **Start**, then click **Help and Support**. Type the keyword **Windows Update** in the HelpSpot **Search** box , then click the arrow.

Restoring your system

All programs that were preinstalled on your notebook are available on the backup restore discs that you created with the recovery media program, on the hard drive, or on restore discs that were included with your notebook. If you need to restore your notebook to the original configuration, you can use the backup restore discs or you can use the backup files located on the hard drive.

The instructions for using the restore discs or hard drive backup files are included in the instruction booklet that came with your restore discs.

Chapter 9

Troubleshooting



- Troubleshooting typical hardware and software problems
- Getting telephone support
- Using automated troubleshooting systems

Safety guidelines

While troubleshooting your notebook, follow these safety guidelines:

- Never remove the memory bay or hard drive bay cover while your notebook is turned on, while the battery is installed, and while the modem cable, network cable, and AC power adapter are connected to your notebook.
- Make sure that you are correctly grounded before accessing internal components. For more information about preventing damage from static electricity, see [“Preventing static electricity discharge” on page 86](#).
- After you complete any maintenance tasks where you remove the memory bay or hard drive bay cover, make sure that you replace the cover, reinstall any screws, then replace the battery before you start your notebook.

Warning



Do not try to troubleshoot your problem if power cords or plugs are damaged, if your notebook was dropped, or if the case was damaged. Instead, unplug your notebook and contact a qualified computer technician.

First steps

If you have problems with your notebook, try these things first:

- Make sure that the AC power adapter is connected to your notebook and an AC outlet and that the AC outlet is supplying power.
- If you use a power strip or surge protector, make sure that it is turned on.
- If a peripheral device (such as a keyboard or mouse) does not work, make sure that all connections are secure.
- Make sure that your hard drive is not full.
- If an error message appears on the screen, write down the exact message. The message may help Gateway Customer Care in diagnosing and fixing the problem.
- If you added or removed peripheral devices, review the installation procedures you performed and make sure that you followed each instruction.
- If an error occurs in a program, see the program's printed documentation or the online help.

Help and Support



For more information about troubleshooting, click **Start**, then click **Help and Support**. Type the keyword **troubleshooting** in the **Search** box

Search , then click the arrow.

Troubleshooting

Troubleshooting topics are listed in alphabetical order.

Audio

Audio troubleshooting is covered under [“Sound” on page 132](#).

Battery

Battery troubleshooting is covered under [“Power” on page 130](#).

CD drives

CD drive troubleshooting is covered under [“DVD drives” on page 117](#).

Device installation

You have computer problems after adding a new device


Sometimes a new device, such as a PC Card, can cause a system resource (IRQ) conflict. Check IRQ usage to determine if there is an IRQ conflict.

To check IRQ usage:

- 1 Click **Start**, then click **Control Panel**. The *Control Panel* window opens. If your Control Panel is in Category View, click **Performance and Maintenance**.
- 2 Click/Double-click **System**, click the **Hardware** tab, then click **Device Manager**. The *Device Manager* window opens.
- 3 Click **View**, then click **Resources by type**. Double-click **Interrupt request (IRQ)**. All IRQs and their hardware assignments are displayed.



Help and Support

For more information about IRQs, click **Start**, then click **Help and Support**. Type the keyword **IRQs** in the **Search** box , then click the arrow.

**To free IRQ resources for the new device:**

- 1** In the *Device Manager* window, check the device list for a resource conflict. A resource conflict appears as a black exclamation point in a yellow circle.
- 2** Remove the device you are trying to install, then determine which one of the existing devices or ports you can disable.
- 3** Right-click the device or port you want to disable, then click **Disable**. The device or port is disabled.



Diskette drive

The diskette drive is not recognized

- Shut down and restart your notebook.
- The modular drive may not be inserted completely into the modular bay. Press the module into the bay, then try to access the diskette again.

You see an “Access Denied” or “Write protect” error message

- Move the write-protection tab in the upper-right corner of the diskette down (unprotected).
- The diskette may be full. Delete unnecessary files on the diskette and try again.
- Not all diskettes are IBM-compatible. Make sure that the diskette you are using is IBM-compatible.
- Try a different diskette. Occasionally diskettes are flawed and cannot be read by the diskette drive.

You see a “Disk is full” error message

- Delete unnecessary files on the diskette.
- Try a different diskette. Occasionally diskettes are flawed and cannot be read by the diskette drive.
- Run Error checking on the diskette. If errors are detected and corrected, try using the diskette again.

Tips & Tricks



For instructions on running Error checking, see “Checking the hard drive for errors” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.

You see a “Non-system disk,” “NTLDR is missing,” or “Disk error” error message

- Eject the diskette from the diskette drive, then press ENTER.
- Make sure that the diskette you are using is IBM-compatible.

The modular drive status indicator is lit continuously

- Remove the diskette from the drive. If the indicator stays on, try restarting your notebook.

Display

The screen is too dark

Adjust the brightness using the system keys. For more information, see “System key combinations” on page 35.

The screen resolution is not correct

Change the screen resolution from the *Display Properties* dialog box.

Tips & Tricks



For instructions on changing the screen resolution, see “Adjusting the screen resolution” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.

The text on the display is dim or difficult to read

- Adjust the brightness and contrast using the system keys. For more information, see [“System key combinations” on page 35](#).
- Change the display settings.

Tips & Tricks



For instructions on changing the display settings, see “Adjusting the screen and desktop settings” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.

- Move your notebook away from sources of electrical interference, such as televisions, unshielded speakers, microwaves, fluorescent lights, and metal beams or shelves.

The display has pixels that are always dark or too bright

This condition is normal and inherent in the TFT technology used in active-matrix LCD screens. Gateway’s inspection standards keep these to a minimum. If you feel these pixels are unacceptably numerous or dense on your display, contact Gateway Customer Care to identify whether a repair or replacement is justified based on the number of pixels affected.

DVD drives

Your notebook does not recognize a disc

- The disc may not be seated correctly in the tray. When you place a disc on the tray, make sure that you press the disc firmly onto the spindle so the retainers hold the disc in place.
- The modular drive may not be inserted completely into the modular bay. Press the module into the bay, then try to access the disc again.
- Make sure that the disc label is facing up, then try again.
- If you are trying to play a DVD, make sure that you have a DVD drive. See [“Identifying drive types” on page 55](#) for more information.
- Try a different disc. Occasionally discs are flawed and cannot be read by the drive.
- Some music CDs have copy protection software. You may not be able to play these CDs on your notebook.

- Your notebook may be experiencing some temporary memory problems. Shut down and restart your notebook.
- Clean the disc. For more information, see [“Cleaning CDs or DVDs” on page 106](#).

An audio CD does not produce sound

- Make sure that the CD label is facing up, then try again.
- Some music CDs have copy protection software. You may not be able to play these CDs on your notebook.
- Make sure that the volume control on your notebook is turned up. For more information, see [“System key combinations” on page 35](#).
- Make sure that the Windows volume control is turned up.

Tips & Tricks



For instructions on how to adjust the volume control in Windows, see “Adjusting the volume” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.

- Make sure that Mute controls are turned off. For more information about the mute setting, see [“System key combinations” on page 35](#).
- Make sure that headphones are not plugged into the headphone jack.
- If you are using powered speakers, make sure that they are plugged in and turned on.
- Clean the disc. For more information, see [“Cleaning CDs or DVDs” on page 106](#).
- Your notebook may be experiencing some temporary memory problems. Shut down and restart your notebook.
- Reinstall the audio device drivers. For more information, see [“Downloads” on page 4](#).

A DVD movie will not play

- Make sure that the label or side you want to play is facing up, then try again.
- Make sure that you have a DVD drive. See [“Identifying drive types” on page 55](#) for more information.

- The DVD drive may not be inserted completely into the modular bay. Press the module into the bay, then try to access the disc again.
- Shut down and restart your notebook.
- Clean the DVD. For more information, see [“Cleaning CDs or DVDs” on page 106](#).
- DVD discs and drives contain *regional codes* that help control DVD title exports and help reduce illegal disc distribution. To be able to play a DVD, the disc’s regional code and your DVD drive’s regional code must match.

The regional code on your DVD drive is determined by your notebook’s delivery address. The regional code for the United States and Canada is 1. The regional code for Mexico is 4. Your DVD drive’s regional code must match the regional code of the disc. The regional code for the disc is on the disc, disc documentation, or packaging.

If the DVD movie does not play, the disc’s regional code and your DVD drive’s regional code may not match.

- Make sure that a DVD player program has been installed on your notebook.

Tips & Tricks



For instructions on playing a DVD, see [“Playing a DVD” on page 58](#).

A DVD does not produce sound on a TV

- Audio is not transmitted through the TV out jack. Use the built-in speakers, a set of headphones or external powered speakers, or connect your notebook to a stereo system to hear sound while playing a DVD.

File management

A file was accidentally deleted

If a file was deleted at a DOS prompt or in Windows while holding down the **SHIFT** key, the file cannot be restored.

 **To restore deleted files:**

- 1 Double-click the **Recycle Bin** icon.
- 2 Right-click the file you want to restore, then click **Restore**. The file is restored to the place where it was originally deleted from.

If the Recycle Bin was emptied before you tried to restore a file, the file cannot be restored.



Help and Support



For more information about restoring deleted files, click **Start**, then click **Help and Support**. Type the keyword **System Restore** in the **Search** box

Search , then click the arrow.

Hard drive

You see an “Insufficient disk space” error message

- Delete unnecessary files from the hard drive using Disk Cleanup.

Tips & Tricks



For instructions on deleting unnecessary files, see “Using Disk Cleanup” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start, All Programs**, then click **Gateway Documentation**.

- Empty the Recycle Bin by right-clicking the **Recycle Bin** icon, then clicking **Empty Recycle Bin**.

Caution




All deleted files will be lost when you empty the Recycle Bin.

- Save your files to another drive. If the hard drive is full, copy any files not regularly used to backup media, then delete them from the hard drive.

Help and Support



For more information about file management, click **Start**, then click **Help and Support**. Type the keyword **file management** in the **Search** box , then click the arrow.

You see a “Data error” message

This may be the result of a defective area on the hard drive. To fix hard drive problems, run the Error checking program.

Tips & Tricks



For instructions on fixing hard drive problems, see “Checking the hard drive for errors” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start**, **All Programs**, then click **Gateway Documentation**.

The hard drive cannot be accessed, or you see a “General failure reading drive C” error message

- If a diskette is in the diskette drive, eject it and restart your notebook.
- Make sure that the hard drive is installed correctly. Remove it, firmly reinsert it, then restart your notebook. For more information, see [“Replacing the hard drive kit” on page 90](#).
- If your notebook has been subjected to static electricity or physical shock, you may need to reinstall the operating system.

You see a “Non-system disk,” “NTLDR is missing,” or “disk” error message

- Eject the diskette from the diskette drive, then press ENTER.

The secondary hard drive is not recognized

- The modular drive may not be inserted completely into the drive bay. Press the drive into the bay, then try to access the drive again.

Internet

You cannot connect to the Internet

- If you are using a dial-up modem, make sure that the modem cable is plugged into the modem jack and not the Ethernet network jack. See [“Back” on page 14](#) or [“Back” on page 98](#) to make sure that the connections have been made correctly.


-OR-

If you are using a cable or DSL modem, make sure that the modem cable is plugged into the Ethernet network jack and not the modem jack. See [“Back” on page 14](#) or [“Back” on page 98](#) to make sure that the connections have been made correctly.

- Make sure that you do not have a problem with your modem. For more information, see [“Modem \(dial-up\)” on page 124](#).
- Make sure that your account with your Internet service provider (ISP) is set up correctly. Contact your ISP technical support for help.

Help and Support



For more information about troubleshooting Internet connections, click **Start**, then click **Help and Support**. Type the keyword **troubleshooting connections** in the **Search** box , then click the arrow.

You see an “Unable to locate host” message and are unable to browse the Internet

This problem can occur when you have typed a URL (Web address) incorrectly, you have lost your Internet connection, or your ISP is having technical difficulties.

Double-check the URL or try a different URL. If the error message still appears, disconnect from the ISP connection and close your browser, then reconnect and open the browser. If you still get the error, your ISP may be having technical difficulties.

Connecting to a Web site takes too long

Many factors can affect Internet performance:

- The condition of the telephone lines in your residence or at your local telephone service

- The condition of the Internet computers to which you connect and the number of users accessing those computers
- The complexity of graphics and multimedia on Web pages
- Having multiple Web browsers open, performing multiple downloads, and having multiple programs open on your notebook

People are sending you e-mail messages, but you have not received any mail

- Click the receive button in your e-mail program.
- Make sure that your account with your Internet service provider (ISP) is set up correctly. Contact your ISP for technical support.

Keyboard

The built-in keyboard does not work

- Attaching a PS/2 keyboard to your notebook or port replicator while your notebook is running may deactivate the built-in keyboard.

The external keyboard does not work

- Make sure that the keyboard cable is plugged in correctly.
- Remove all extension cables and switchboxes.
- Clean the keyboard by using an aerosol can of air with a narrow, straw-like extension to remove dust and lint trapped under the keys.
- Try a keyboard that you know works to make sure that the keyboard port works.
- If you spilled liquid in the keyboard, turn off your notebook and unplug the keyboard. Clean the keyboard and turn it upside down to drain it. Let the keyboard dry before using it again. If the keyboard does not work after it dries, you may need to replace it.

A keyboard character keeps repeating or you see a “Keyboard stuck” or “Key failure” error message

- Make sure that nothing is resting on the keyboard.
- Make sure that a key is not stuck. Press each key to loosen a key that might be stuck, then restart your notebook.

You are pressing a letter key and a number appears on the screen

- The numeric keypad is turned on. See [“System key combinations” on page 35](#) for instructions on turning off your numeric keypad.

Memory

You see a “Memory error” message


- Make sure that the memory modules are inserted correctly in the memory bay slots. For more information, see [“Adding or replacing memory” on page 87](#).
- Use a third-party diagnostic program to help determine if a memory module is failing. For more information, see [“Adding or replacing memory” on page 87](#).

You see a “Not enough memory” error message

Close all programs, then restart your notebook.

Help and Support



For more information about troubleshooting memory errors, click **Start**, then click **Help and Support**. Type the keyword **memory error** in the **Search** box , then click the arrow.

Memory card reader

Drive letter for the memory card slot does not appear in the My Computer window

- The memory card reader may not be inserted completely into the modular bay. Press the reader into the bay, then try to access the memory card again.
- Reboot your notebook.

Modem (dial-up)

Your modem does not dial or does not connect

- Make sure that the modem cable is plugged into the modem jack and not the Ethernet network jack. See [“Back” on page 14](#) to make sure that the connections have been made correctly.

- Make sure that your notebook is connected to the telephone line and the telephone line has a dial tone.
- Make sure that the modem cable is less than 6 feet (1.8 meters) long.
- Remove any line splitters or surge protectors from your telephone line, then check for a dial tone by plugging a working telephone into the telephone wall jack.
- If you have additional telephone services such as call waiting, call messaging, or voice mail, make sure that all messages are cleared and call waiting is disabled before using the modem. Contact your telephone service to get the correct code to temporarily disable the service. Also make sure that the modem dialing properties are set appropriately.


 **To check the dialing properties:**

- 1** Click **Start**, then click **Control Panel**. The *Control Panel* window opens. If your Control Panel is in Category View, click **Printers and Other Hardware**.
- 2** Click/Double-click the **Phone and Modem Options** icon, then click the **Dialing Rules** tab.
- 3** Click the location from which you are dialing, then click **Edit**.
- 4** Make sure that all settings are correct.



Help and Support



For more information about dialing properties, click **Start**, then click **Help and Support**. Type the keyword **dialing** in the **Search** box , then click the arrow.

- Disconnect any answering machine, fax machine, or printer that is on the same line as the modem. Do not connect these devices to the same telephone line as the modem.
- Make sure that you are not using a digital, rollover, or PBX line. These lines do not work with your modem.

- Check for line noise (scratchy, crackling, or popping sounds). Line noise is a common problem that can cause the modem to connect at a slower rate, abort downloads, or even disconnect. The faster the modem, the less line noise it can tolerate and still work correctly.

Listen to the line using your telephone. Dial a single number (such as 1). When the dial tone stops, listen for line noise. Wiggle the modem cable to see if that makes a difference. Make sure that the connectors are free from corrosion and all screws in the wall or telephone wall jack are secure.

You can also call your telephone service and have the telephone line checked for noise or low line levels.

- Try another telephone line (either a different telephone number in your house or a telephone line at a different location). If you can connect on this line, call your telephone service.
- Try connecting with the modem at a lower connection speed. If reducing the connect speed lets you connect, call your telephone service. The telephone line may be too noisy.

You cannot connect to the Internet

- The ISP may be having technical difficulties. Contact your ISP for technical support.
- See if the modem works with a different communications program. The problem may be with just one program.
- Review the troubleshooting information under [“Internet” on page 122](#).

Your 56K modem does not connect at 56K

Current FCC regulations restrict actual data transfer rates over public telephone lines to 53K. Other factors, such as line noise, telephone service provider equipment, or ISP limitations, may lower the speed even further.

If your notebook has a v.90 modem, the speed at which you can upload (send) data is limited to 33.6K. If your notebook has a v.92 modem, the speed at which you can upload data is limited to 48K. Your ISP may not support 48K uploads.

Your fax communications program only sends and receives faxes at 14,400 bps when you have a 56K modem

Current fax technology only supports a maximum send and receive rate of 14,400 bps.

The modem is not recognized by your notebook

- Make sure that the line connected to the modem is working and plugged into the appropriate port on your notebook. See [“Back” on page 14](#) to make sure that the connections have been made correctly.
- If the modem shares the telephone line with another device, make sure that the telephone line is not in use (for example, someone is on the telephone, or another modem is in use).
- Use the modem cable that came with your notebook. Some telephone cables do not meet required cable standards and may cause problems with the modem connection.
- Shut down and restart your notebook.
- Run Windows modem diagnostics.




To run modem diagnostics:

- 1 Close all open programs.
- 2 Click **Start**, then click **Control Panel**. The *Control Panel* window opens. If your Control Panel is in Category View, click **Printers and Other Hardware**.
- 3 Click/Double-click the **Phone and Modem Options** icon, then click the **Modems** tab.
- 4 Click your modem, then click **Properties**. The *Modem Properties* dialog box opens.
- 5 Click the **Diagnostic** tab, then click **Query Modem**. If information about the modem appears, the modem passed diagnostics. If no modem information is available, a white screen appears with no data, or if you get an error such as *port already open* or *the modem has failed to respond*, the modem did not pass diagnostics.



Help and Support



For more information about modem troubleshooting, click **Start**, then click **Help and Support**. Type the keyword **modem troubleshooting** in the **Search** box , then click the arrow.

The modem is noisy when it dials and connects

When your modem tries to connect to another modem, it begins *handshaking*. Handshaking is a digital “getting acquainted” conversation between the two modems that establishes connection speeds and communication protocols. You may hear unusual handshaking sounds when the modems first connect. If the handshaking sounds are too loud, you can turn down the modem volume.



To turn down the modem volume:

- 1 Click **Start**, then click **Control Panel**. The *Control Panel* window opens. If your Control Panel is in Category View, click **Printers and Other Hardware**.
- 2 Click/Double-click the **Phone and Modem Options** icon, then click the **Modems** tab.
- 3 Click the modem you want to adjust, then click **Properties**.
- 4 Click the **Modem** tab, then adjust the **Speaker volume** control.
- 5 Click **OK** twice to close the *Phone and Modem Options* dialog box.



Mouse

The external mouse does not work

- Make sure that the mouse cable is plugged in correctly.
- Shut down and restart your notebook.
- Remove all extension cables and switch boxes.
- Try a mouse you know is working to make sure that the mouse port works.

The external mouse works erratically

- Clean the mouse.
- Some mouse pad patterns “confuse” optical mice. Try the mouse on a different surface.

Networks

You cannot connect to your company network

Every network is unique. Contact your company computer department or network administrator for help


Tips & Tricks



For information about setting up a network in your home, see the network guide which has been included on your hard drive. To access this guide, click **Start**, **All Programs**, then click **Gateway Documentation**.

Help and Support



For more information about network troubleshooting, click **Start**, then click **Help and Support**. Type the keyword **network troubleshooting** in the **Search** box , then click the arrow.

Passwords

Your notebook does not accept your password

Make sure that CAPS LOCK and NUM LOCK are turned off, then retype the password.

You forgot your startup password

The password feature (which is set in the BIOS Setup utility) is very secure, with no easy way to recover a forgotten password. You must return your notebook for repair. Call Gateway Customer Care for instructions.

PC Cards

You installed a PC Card and now your notebook is having problems

- Make sure that you have correctly installed required software for the PC Card. For more information, see your PC Card's documentation.

- Make sure that the PC Card you installed is not causing a system resource conflict. For more information on resource conflicts, see [“Device installation” on page 114](#).

Power

Your notebook is not working on AC power

- Make sure that your AC power adapter is connected correctly to your notebook. For more information, see [“Connecting the AC adapter” on page 26](#).
- If your notebook is plugged into a surge protector, make sure that the surge protector is connected securely to an electrical outlet, turned on, and working correctly. To test the outlet, plug a working device, such as a lamp, into the outlet and turn it on.
- Make sure that the AC power adapter cables are free from cuts or damage. Replace any damaged cables.

Your notebook is not working on battery power

- Make sure that the battery is installed correctly. For more information, see [“Changing batteries” on page 78](#).
- Make sure that the battery is fully recharged. For more information, see [“Recharging the batteries” on page 76](#).
- Make sure that the battery is calibrated correctly. For more information, see [“Recalibrating the batteries” on page 77](#).

Printer

The printer will not turn on

- Make sure that the printer is online. Many printers have an online/offline button that you may need to press.
- Make sure that the power cable is plugged into an AC power source.

The printer is on but will not print

- Check the cable between the printer and your notebook. Make sure that it is connected to the correct port.

- Make sure that the printer is online. Many printers have an online/offline button that you may need to press so the printer can start printing. Press the button to put the printer online.
- Check the port and cable for bent or broken pins.
- If the printer you want to print to is not the default printer, make sure that you have selected it in the printer setup.

To set a default printer:

- 1 Click **Start**, then click **Control Panel**. The *Control Panel* window opens. If your Control Panel is in Category View, click **Printers and Other Hardware**.
- 2 Click/Double-click the **Printers and Faxes** icon. The *Printers and Faxes* window opens.
- 3 Right-click the name of the printer you want to be the default printer, then click **Set as Default Printer**.



- Reinstall the printer driver. See the guide that came with your printer for instructions on installing the printer driver.

You see a “Printer queue is full” error message

- Make sure that the printer is not set to work offline.


To make sure that the printer is not set to work offline:

- 1 Click **Start**, then click **Control Panel**. The *Control Panel* window opens. If your Control Panel is in Category View, click **Printers and Other Hardware**.
- 2 Click/Double-click the **Printers and Faxes** icon. The *Printers and Faxes* window opens.
- 3 Right-click the name of the printer you want to use. If the menu shows a check mark next to **Use Printer Offline**, click **Use Printer Offline** to clear the check mark.



Help and Support



For more information about printer troubleshooting, click **Start**, then click **Help and Support**. Type the keyword **printer troubleshooter** in the **Search** box , then click the arrow.

- Wait until files have been printed before sending additional files to the printer.
- If you print large files or many files at one time, you may want to add additional memory to the printer. See the printer documentation for instructions for adding additional memory.

You see a “Printer is out of paper” error message

After adding paper, make sure that the printer is online. Most printers have an online/offline button that you need to press after adding paper.

Sound

You are not getting sound from the built-in speakers

- Make sure that headphones are not plugged into the headphone jack.
- Make sure that the volume control on your notebook is turned up. For more information, see [“System key combinations” on page 35](#).
- Make sure that the Windows volume control is turned up.

Tips & Tricks




For instructions on how to adjust the volume control in Windows, see “Adjusting the volume” in *Using Your Computer* which has been included on your hard drive. To access this guide, click **Start**, **All Programs**, then click **Gateway Documentation**.

- Make sure that Mute controls are turned off. For more information about the mute setting, see [“System key combinations” on page 35](#).

Help and Support



For more information about troubleshooting sound issues, click **Start**, then click **Help and Support**. Type the keyword **sound troubleshooter** in the **Search** box , then click the arrow.

Touchpad or pointing device

Touchpad or pointing device is not working

- Make sure the touchpad or pointing device is turned on. For more information, see [“Turning the touchpad or pointing device on or off” on page 44](#).
- Connecting a PS/2 mouse to your notebook or port replicator may turn off the touchpad or pointing device.

Video

The projector or external monitor is not working

- Make sure that you have pressed **FN+F4** to activate the external monitor option.
- Make sure that the monitor is turned on and that the video cable is connected correctly.

TV out is not working

- Make sure that you have activated TV out. For more information, see [“Viewing the display on a television” on page 68](#).
- Make sure that the television is turned on and that the RCA video cable or S-Video cable is connected correctly.
- Televisions in different countries use different standards. If you are traveling, you may need to change the TV Out mode. For more information, see [“Viewing the display on a television” on page 68](#).

Telephone support

Before calling Gateway Customer Care

If you have a technical problem with your notebook, follow these recommendations before contacting Gateway Customer Care:

- Make sure that your notebook is connected correctly to a grounded AC outlet that is supplying power. If you use a surge protector, make sure that it is turned on.
- If a peripheral device, such as a keyboard or mouse, does not appear to work, make sure that all cables are plugged in securely.
- If you have recently installed hardware or software, make sure that you have installed it according to the instructions provided with it. If you did not purchase the hardware or software from Gateway, see the manufacturer's documentation and technical support resources.
- If you have "how to" questions about using a program, see:
 - Online Help
 - Printed documentation
 - The Microsoft Windows documentation
 - The software publisher's Web site
- See the troubleshooting section of this chapter.

Warning



To avoid bodily injury, do not attempt to troubleshoot your notebook problem if:

- Power cords or plugs are damaged
- Liquid has been spilled into your notebook
- Your notebook was dropped
- The case was damaged

Instead, unplug your notebook and contact a qualified computer technician.

- Have your customer ID, serial number, and order number available, along with a detailed description of your problem, including the exact text of any error messages, and the steps you have taken.
- Make sure that your notebook is nearby at the time of your call. The technician may have you follow troubleshooting steps.

Telephone numbers

Gateway offers a wide range of customer service, customer care, and information services.

Automated troubleshooting system

Service description	How to reach
Use an automated menu system and your telephone keypad to find answers to common problems.	800-846-2118

Telephone numbers

You can access the following services through your telephone to get answers to your questions:

Resource	Service description	How to reach
Gateway's fee-based software tutorial service	Get tutorial assistance for software issues billed by the minute.	800-229-1103 (charged to your credit card) 900-555-4695 (charged to your telephone bill)
Gateway Customer Care	Talk to a Gateway Customer Care representative about a non-tutorial technical support question. (See "Before calling Gateway Customer Care" on page 134 before calling.)	Gateway Customer Care telephone numbers vary by country or region. For the correct telephone number, see your setup poster or the Gateway eSupport Web site at support.gateway.com . For more information, see "Using eSupport" on page 4 .
America Online	Get support for your America Online ISP account	800-827-6364 (US) 888-265-4357 (Canada)
Sales, accounting, and warranty	Get information about available systems, pricing, orders, billing statements, warranty service, or other non-technical issues.	800-846-2000 (US) 888-387-7752 (Canada)

Appendix A

Safety, Regulatory, and Legal Information



- Safety information
- Regulatory statements
- Notices

Important safety information

Your Gateway system is designed and tested to meet the latest standards for safety of information technology equipment. However, to ensure safe use of this product, it is important that the safety instructions marked on the product and in the documentation are followed.

Warning



Always follow these instructions to help guard against personal injury and damage to your Gateway system.

Setting up your system

- Read and follow all instructions marked on the product and in the documentation before you operate your system. Retain all safety and operating instructions for future use.
- Do not use this product near water or a heat source such as a radiator.
- Set up the system on a stable work surface.
- The product should be operated only from the type of power source indicated on the rating label.
- If your notebook has a voltage selector switch, make sure that the switch is in the proper position for your area. The voltage selector switch is set at the factory to the correct voltage.
- Openings in the notebook case are provided for ventilation. Do not block or cover these openings. Make sure you provide adequate space, at least 6 inches (15 cm), around the system for ventilation when you set up your work area. Never insert objects of any kind into the notebook ventilation openings.
- Some products are equipped with a three-wire power cord to make sure that the product is properly grounded when in use. The plug on this cord will fit only into a grounding-type outlet. This is a safety feature. If you are unable to insert the plug into an outlet, contact an electrician to install the appropriate outlet.
- If you use an extension cord with this system, make sure that the total ampere rating on the products plugged into the extension cord does not exceed the extension cord ampere rating.
- If your system is fitted with a TV Tuner, cable, or satellite receiver card, make sure that the antenna or cable system is electrically grounded to provide some protection against voltage surges and buildup of static charges.

Care during use

- Do not walk on the power cord or allow anything to rest on it.
- Do not spill anything on the system. The best way to avoid spills is to avoid eating and drinking near your system.
- Some products have a replaceable CMOS battery on the system board. There is a danger of explosion if the CMOS battery is replaced incorrectly. Replace the battery with the same or equivalent type recommended by the manufacturer. Dispose of batteries according to the manufacturer's instructions.

- When the notebook is turned off, a small amount of electrical current still flows through the notebook. To avoid electrical shock, always unplug all power cables and modem cables from the wall outlets before cleaning the system.
- Unplug the system from the wall outlet and refer servicing to qualified personnel if:
 - The power cord or plug is damaged.
 - Liquid has been spilled into the system.
 - The system does not operate properly when the operating instructions are followed.
 - The system was dropped or the cabinet is damaged.
 - The system performance changes.

Replacement parts and accessories

Use only replacement parts and accessories recommended by Gateway.

Warning



Do not use Gateway products in areas classified as hazardous locations. Such areas include patient care areas of medical and dental facilities, oxygen-laden environments, or industrial facilities.

Warning



To reduce the risk of fire, use only No. 26 AWG or larger telecommunications line cord.

Regulatory compliance statements

Wireless Guidance

Low power, Radio transmitting type devices (radio frequency (RF) wireless communication devices), may be present (embedded) in your notebook system. These devices may operate in the 2.4 GHz (i.e. 802.11 B/G LAN & Bluetooth), 5.2 GHz (i.e. 802.11A LAN), and traditional cellular or PCS cellular bands (i.e. Cellular data modem). The following section is a general overview of considerations while operating a wireless device.

Additional limitations, cautions, and concerns for specific countries are listed in the specific country sections (or country group sections). The wireless devices in your system are only qualified for use in the countries identified by the Radio Approval Marks on the system rating label. If the country you will be using the wireless device in, is not listed, please contact your local Radio Approval agency for requirements. Wireless devices are closely regulated and use may not be allowed.

The power output of the wireless device or devices that may be embedded in your notebook is well below the RF exposure limits as known at this time. Because the wireless devices (which may be embedded into your notebook) emit less energy than is allowed in

radio frequency safety standards and recommendations, Gateway believes these devices are safe for use. Regardless of the power levels, care should be taken to minimize human contact during normal operation.

Measurements have been performed to show that the RF exposure is below what is considered safe limits; however care should be taken to make sure the user or bystanders keep the transmitter away from their body when the wireless device is transmitting. The transmitting antenna installed in the top third of the lid should be used in a manner to maintain 20 cm (8 inches) from user's or bystander's bodies.

The wireless devices installed in this system are intended to be used indoors. In some areas, use of these devices outdoors is prohibited.

Some circumstances require restrictions on wireless devices. Examples of common restrictions are listed below:

Warning



Radio frequency wireless communication can interfere with equipment on commercial aircraft. Current aviation regulations require wireless devices to be turned off while traveling in an airplane. 802.11B (also known as wireless Ethernet or Wifi) and Bluetooth communication devices are examples of devices that provide wireless communication.

Warning



In environments where the risk of interference to other devices or services is harmful or perceived as harmful, the option to use a wireless device may be restricted or eliminated. Airports, Hospitals, and Oxygen or flammable gas laden atmospheres are limited examples where use of wireless devices may be restricted or eliminated. When in environments where you are uncertain of the sanction to use wireless devices, ask the applicable authority for authorization prior to use or turning on the wireless device.

Warning



If your system came equipped with an internal embedded wireless device, do not operate the wireless device unless all covers and shields are in place and the system is fully assembled.

Caution



Wireless devices are not user serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Please contact Gateway for service.

Caution

Only use drivers approved for the country in which the device will be used. See the Gateway System Restoration Kit, or contact Gateway Customer Care for additional information.

Important

Every country has different restrictions on the use of wireless devices. Since your system is equipped with a wireless device, when traveling between countries with your system, check with the local Radio Approval authorities prior to any move or trip for any restrictions on the use of a wireless device in the destination country.

United States of America

Federal Communications Commission (FCC) Intentional emitter per FCC Part 15

Low power, Radio transmitter type devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz band and/or 5.15 – 5.35 GHz band, may be present (embedded) in your notebook system. This section is only applicable if these devices are present. Refer to the system label to verify the presence of wireless devices.

Wireless devices that may be in your system are only qualified for use in the United States of America if an FCC ID number is on the system label.

The FCC has set a general guideline of 20 cm (8 inches) separation between the device and the body, for use of a wireless device near the body (this does not include extremities). This device should be used more than 20 cm (8 inches) from the body when wireless devices are on. The power output of the wireless device (or devices), which may be embedded in your notebook, is well below the RF exposure limits as set by the FCC.

The wireless devices installed in this system are intended to be used indoors. In some areas, use of these devices outdoors is prohibited.

Operation of this device 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 of the device.

Caution

Wireless devices are not user-serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Contact Gateway for service.

Caution

The transmitting device embedded in this system may not be used with any antenna other than the one provided with the system.

Caution



In order to comply with FCC requirements this transmitter must not be operated (or co-located) in conjunction with any other transmitter or antenna installed in the notebook.

Unintentional emitter per FCC Part 15

This device 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 or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and 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.

Compliance Accessories: The accessories associated with this equipment are: shielded video cable when an external monitor is connected. These accessories are required to be used in order to ensure compliance with FCC rules.

FCC declaration of conformity

Responsible party:

Gateway Companies, Inc.
610 Gateway Drive, North Sioux City, SD 57049
(605) 232-2000 Fax: (605) 232-2023

Product:

- Gateway 450RGH
- Gateway 450ROG

This device complies with Part 15 of the FCC Rules. Operation of this product 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.

Caution



Changes or modifications not expressly approved by Gateway could void the FCC compliance and negate your authority to operate the product.

California Proposition 65 Warning

Warning



This product contains chemicals, including lead, known to the State of California to cause cancer, birth defects or reproductive harm.

Mercury Warning

Warning



The lamp in this display contains mercury. Do not put in the trash. Recycle or dispose as hazardous waste.

Telecommunications per Part 68 of the Code of Federal Regulations (CFR 47) (applicable to products fitted with USA modems)

Your modem complies with Part 68 of the Code of Federal Regulations (CFR 47) rules. On the computer or modem card is a label that contains the FCC registration number and Ringer Equivalence Number (REN) for this device. If requested, this information must be provided to the telephone company.

A telephone line cord with a modular plug is required for use with this device. The modem is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is Part 68-compliant. See installation instructions for details.

The Ringer Equivalence Number (REN) is used to determine the number of devices which may be connected to the telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.

If this device causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. The telephone company may request that you disconnect the equipment until the problem is resolved.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of this equipment. If this happens, the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

This equipment cannot be used on telephone company-provided coin service. Connection to party line service is subject to state tariffs. Contact the state public utility commission or public service commission for information.

When programming or making test calls to emergency numbers:

- Remain on the line and briefly explain to the dispatcher the reason for the call.
- Perform such activities in the off-peak hours such as early morning or late evenings.

The United States Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone fax machine unless such message clearly contains, in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent, an identification of the business, other entity, or other individual sending the message, and

the telephone number of the sending machine or such business, other entity, or individual. Refer to your fax communication software documentation for details on how to comply with the fax-branding requirement.

Canada

Industry Canada (IC) Intentional emitter per RSS 210

Low power, Radio transmitter type devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz band and/or 5.15 – 5.35 GHz band, may be present (embedded) in your notebook system. This section is only applicable if these devices are present. Refer to the system label to verify the presence of wireless devices.

Wireless devices that may be in your system are only qualified for use in Canada if an Industry Canada ID number is on the system label.

As a general guideline, a separation of 20 cm (8 inches) between the wireless device and the body, for use of a wireless device near the body (this does not include extremities) is typical. This device should be used more than 20 cm (8 inches) from the body when wireless devices are on. The power output of the wireless device (or devices), which may be embedded in your notebook, is well below the RF exposure limits as set by Industry Canada.

Operation of this device 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 of the device.

Caution



To prevent radio interference to licensed service or co-channel Mobile Satellite systems, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

Caution



Wireless devices are not user-serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Contact Gateway for service.

Caution



The transmitting device embedded in this system may not be used with any antenna other than provide with the system.

Caution



The 802.11A radio LAN your system may have been equipped with operates in the same frequency range as high power radar, which has priority use, and may damage the radio LAN if both are present and being used in the same area.

Unintentional emitter per ICES-003

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe B prescrites dans le règlement sur le brouillage radioélectrique édicté par Industrie Canada.

Telecommunications per Industry Canada CS-03 (for products fitted with an IC-compliant modem)

The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operation, and safety requirements. The Department does not guarantee the equipment will operate to the users' satisfaction.

Before installing this equipment, users should make sure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the inside wiring associated with a single-line individual service may be extended by means of a certified connector assembly. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should make sure, for their own protection, that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Warning



To avoid electrical shock or equipment malfunction do not attempt to make electrical ground connections by yourself. Contact the appropriate inspection authority or an electrician, as appropriate.

The **Ringer Equivalence Number** (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

Laser safety statement

All Gateway systems equipped with CD and DVD drives comply with the appropriate safety standards, including IEC 825. The laser devices in these components are classified as "Class 1 Laser Products" under a US Department of Health and Human Services (DHHS) Radiation Performance Standard. Should the unit ever need servicing, contact an authorized service location.

Warning



Use of controls or adjustments or performance of procedures other than those specified in this manual may result in hazardous radiation exposure. To prevent exposure to laser beams, do not try to open the enclosure of a CD or DVD drive.

EPA ENERGY STAR



As an ENERGY STAR® Partner, Gateway has determined that this product meets the ENERGY STAR guidelines for energy efficiency when used with a computer equipped with a Display Power Management System.

Notices

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Poway, CA 92064 USA

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Macrovision statement

If your notebook has a DVD drive and an analog TV Out port, the following paragraph applies:

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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