Dell™ Inspiron™ 600m

Owner's Manual

Notes, Notices, and Cautions

NOTE: A NOTE indicates important information that helps you make better use of your computer.

NOTICE: A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

CAUTION: A CAUTION indicates a potential for property damage, personal injury, or death.

If you purchased a Dell™ n Series computer, any references in this document to Microsoft® Windows® operating systems are not applicable.

Contents

9 Appendix

A Tour of Your Computer

Front View

keyboard status lights

display

mute button

power button

volume control buttons

device status lights

keyboard

touch pad buttons

touch pad

speaker

display latch

speaker
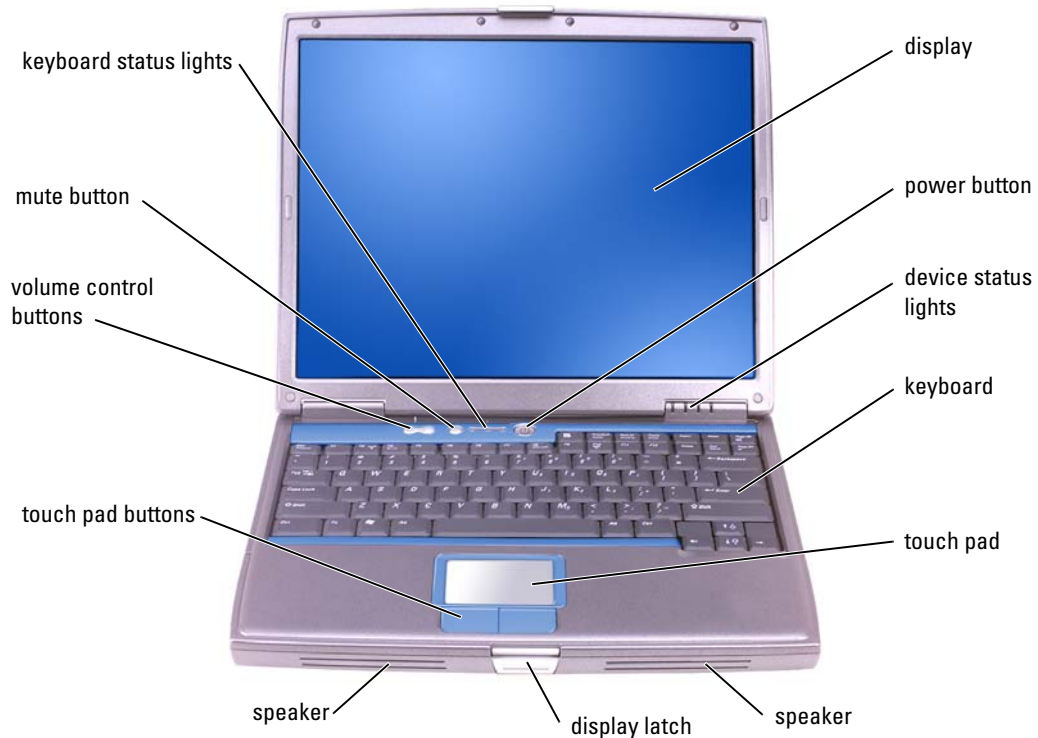
DISPLAY — For more information about your display, see the *Dell Inspiron* help file. To access the help file, see "Accessing Help" on page 65.

POWER BUTTON — Press the power button to turn on the computer or exit a power management mode. For more information about power management, see the *Dell Inspiron* help file. To access the help file, see "Accessing Help" on page 65.

NOTICE: To avoid losing data, turn off your computer by performing a Microsoft® Windows® operating system shutdown (see "Turning Off Your Computer" on page 27) rather than by pressing the power button.

If the computer stops responding, press and hold the power button until the computer turns off completely (which may take several seconds).

DEVICE STATUS LIGHTS
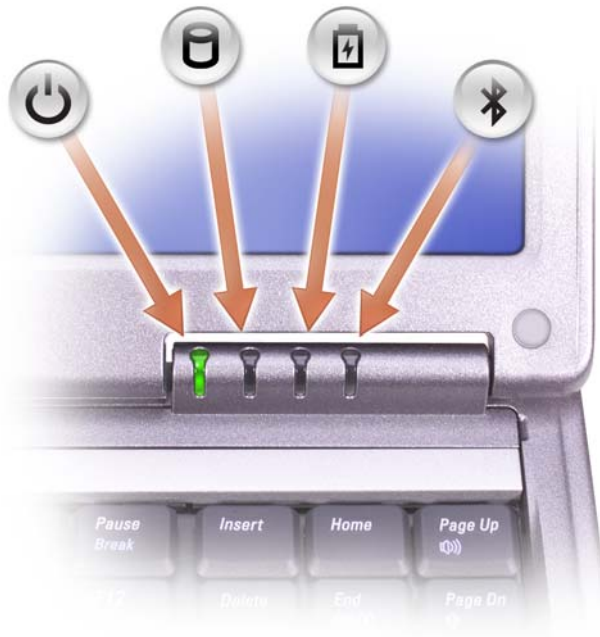
⏻	Turns on when you turn on the computer and blinks when the computer is in a power management mode.
⬛	Turns on when the computer reads or writes data. ⮕ **NOTICE:** To avoid loss of data, never turn off the computer while the ⬛ light is flashing.
🔋	Turns on steadily or blinks to indicate battery charge status.
✳	Turns on when Bluetooth® wireless technology is enabled. ✎ **NOTE:** Bluetooth wireless technology is an optional feature, so the ✳ light turns on only if you ordered the internal card with Bluetooth wireless technology with your computer. For more information, see the documentation that came with your card. To turn off only the functionality of the Bluetooth wireless technology, right-click the ✳ icon in the system tray and select **Disable Bluetooth Radio**. To quickly enable or disable all wireless devices, press <Fn><F2>.

If the computer is connected to an electrical outlet, the 🔋 light operates as follows:

– Solid green: The battery is charging.

– Flashing green: The battery is almost fully charged.

If the computer is running on a battery, the 🔋 light operates as follows:

– **Off:** The battery is adequately charged (or the computer is turned off).

– **Flashing orange:** The battery charge is low.

– **Solid orange:** The battery charge is critically low.

KEYBOARD — The keyboard includes a numeric keypad as well as the Windows logo key. For information on supported keyboard shortcuts, see "Using the Keyboard and Touch Pad" on page 41.

TOUCH PAD — Provides the functionality of a mouse. See "Using the Keyboard and Touch Pad" on page 41 for more information.

SPEAKERS — To adjust the volume of the integrated speakers, press the volume control buttons, mute button, or volume-control keyboard shortcuts. For more information, see "Using the Keyboard and Touch Pad" on page 41.

DISPLAY LATCH — Keeps the display closed.

TOUCH PAD BUTTONS — Provide the functionality of a mouse. See "Using the Keyboard and Touch Pad" on page 41 for more information.

VOLUME CONTROL BUTTONS — Press these buttons to adjust the volume.

MUTE BUTTON — Press this button to turn off the volume.

KEYBOARD STATUS LIGHTS

The green lights located above the keyboard indicate the following:

🔢	Turns on when the numeric keypad is enabled.
🔠	Turns on when the uppercase letter function is enabled.
🔒	Turns on when the scroll lock function is enabled.

Left Side View
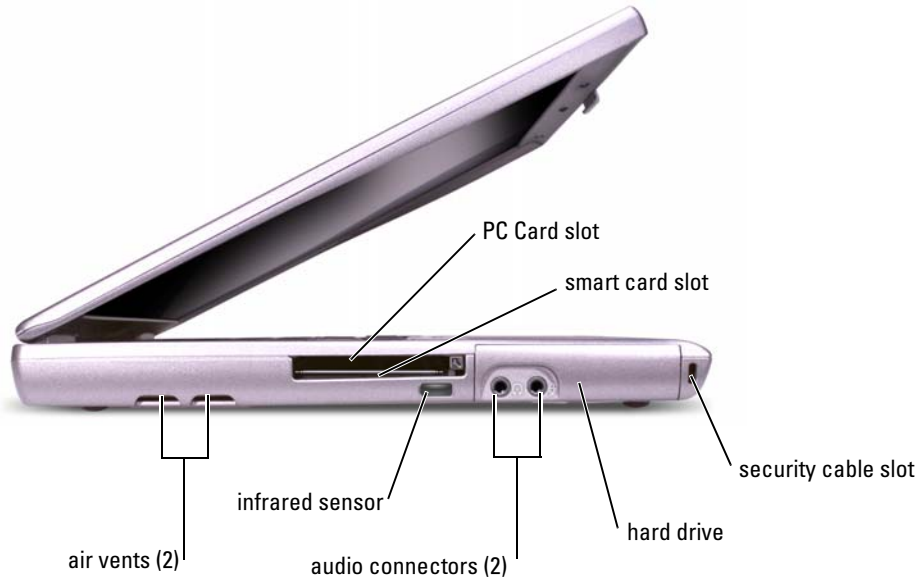
PC Card slot

smart card slot

security cable slot

hard drive

infrared sensor

audio connectors (2)

air vents (2)

AIR VENTS — The computer uses an internal fan to create airflow through the vents, which prevents the computer from overheating.

📝 **NOTE:** The computer turns on the fan when the computer gets hot. Fan noise is normal and does not indicate a problem with the fan or the computer.

⚠️ **CAUTION: Do not block, push objects into, or allow dust to accumulate in the air vents. Do not store your Dell™ computer in a low-airflow environment, such as a closed briefcase, while it is running. Restricting the airflow can damage the computer or cause a fire.**

PC CARD SLOT — Supports one PC Card, such as a modem or network adapter. The computer ships with a plastic blank installed in the slot. For more information, see the *Dell Inspiron* help file. To access the help file, see"Accessing Help" on page 65.

SMART CARD SLOT — Supports one smart card. For more information, see the *Dell Inspiron* help file. To access the help file, see "Accessing Help" on page 65.

✐ **NOTE:** Depending on your computer's configuration, the smart card slot may not be available.

INFRARED SENSOR — Lets you transfer files from your computer to another infrared-compatible device without using cable connections.

When you receive your computer, the sensor is disabled. You can use the system setup program to enable the sensor. For information on transferring data, see the Help and Support Center or the documentation that came with your infrared-compatible device.

AUDIO CONNECTORS
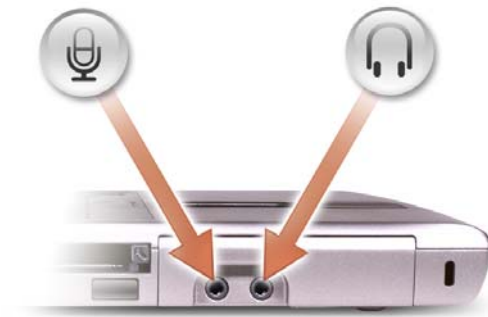
Attach a microphone to the 🎤 connector.

Attach headphones or speakers to the 🎧 connector.

HARD DRIVE — Stores software and data.

SECURITY CABLE SLOT — Lets you attach a commercially available antitheft device to the computer. For more information, see the instructions included with the device.

🔵 **NOTICE:** Before you buy an antitheft device, ensure that it will work with the security cable slot.

Right Side View

security cable slot   module bay

device latch release

SECURITY CABLE SLOT — Lets you attach a commercially available antitheft device to the computer. For more information, see the instructions included with the device.

🔵 **NOTICE:** Before you buy an antitheft device, ensure that it will work with the security cable slot.

MODULE BAY — You can install devices such as an optical drive or a Dell TravelLite™ module in the module bay. For more information, see "About the Module Bay" on page 36.

DEVICE LATCH RELEASE — Releases the module bay device. See "About the Module Bay" on page 36 for instructions.

Back View

◯ **NOTICE:** To avoid damaging the computer, wait 5 seconds after turning off the computer before you disconnect an external device.

⚠ **CAUTION: Do not block, push objects into, or allow dust to accumulate in the air vents. Do not store your computer in a low-airflow environment, such as a closed briefcase, while it is running. Restricting the airflow can damage the computer or cause a fire.**

modem connector (RJ-11) (optional)

network connector (RJ-45)

video connector

air vents

parallel connector

AC adapter connector

S-video TV-out connector

serial connector
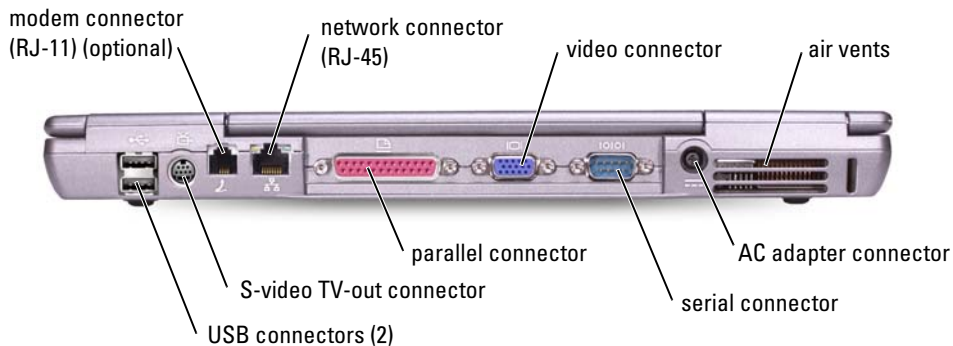
USB connectors (2)
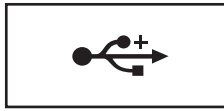
USB CONNECTORS

	Connect USB devices, such as a mouse, keyboard, or printer. You can also connect the optional floppy drive directly to a USB connector using the optional floppy drive cable.

S-VIDEO TV-OUT CONNECTOR

	Connects your computer to a TV. For more information, see "Connecting a Television to the Computer" on page 50.

MODEM CONNECTOR (RJ-11)

	If you ordered the internal modem, connect the telephone line to the modem connector. For information on using the modem, see the online modem documentation supplied with your computer. See "Accessing Help" on page 65.

NETWORK CONNECTOR (RJ-45)

⊘ **NOTICE:** The network connector is slightly larger than the modem connector. To avoid damaging the computer, do not plug a telephone line into the network connector.
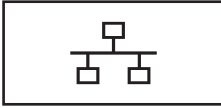
	Connects the computer to a network. The green and yellow lights next to the connector indicate activity for both wired and wireless network communications.
	For information on using the network adapter, see the device user's guide supplied with your computer. See "Accessing Help" on page 65.

PARALLEL CONNECTOR

	Connects a parallel device, such as a printer.

VIDEO CONNECTOR

	Connects an external monitor. For more information, see the *Dell Inspiron* help file. To access the help file, see "Accessing Help" on page 65.

SERIAL CONNECTOR

	Connects serial devices, such as a mouse or handheld device.

AC ADAPTER CONNECTOR — Attach an AC adapter to the computer.

The AC adapter converts AC power to the DC power required by the computer. You can connect the AC adapter with your computer turned either on or off.

⚠ **CAUTION: The AC adapter works with electrical outlets worldwide. However, power connectors and power strips vary among countries. Using an incompatible cable or improperly connecting the cable to the power strip or electrical outlet may cause fire or equipment damage.**

⊘ **NOTICE:** When you disconnect the AC adapter cable from the computer, grasp the connector, not the cable itself, and pull firmly but gently to avoid damaging the cable.

AIR VENTS — The computer uses an internal fan to create airflow through the vents, which prevents the computer from overheating.

✐ **NOTE:** The computer turns on the fan when the computer gets hot. Fan noise is normal and does not indicate a problem with the fan or the computer.

⚠ **CAUTION: Do not block, push objects into, or allow dust to accumulate in the air vents. Do not store your computer in a low-airflow environment, such as a closed briefcase, while it is running. Restricting the airflow can damage the computer or cause a fire.**

Bottom View
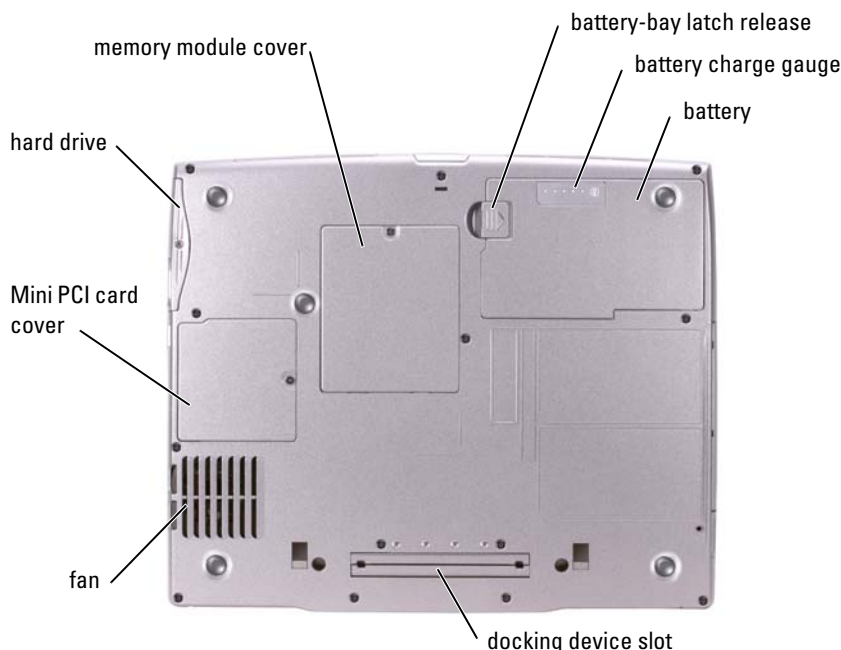
MEMORY MODULE COVER — Covers the compartment that contains the memory module(s). See "Adding Memory" on page 81.

BATTERY-BAY LATCH RELEASE — Releases the battery. See "Using a Battery" on page 29 for instructions.

BATTERY CHARGE GAUGE — Provides information on the battery charge. See "Using a Battery" on page 29.

BATTERY — When a battery is installed, you can use the computer without connecting the computer to an electrical outlet. See "Using a Battery" on page 29.

DOCKING DEVICE SLOT — Lets you attach your computer to a docking device. See the documentation that came with your docking device for additional information.

FAN — The computer uses an internal fan to create airflow through the vents, which prevents the computer from overheating.

 NOTE: The computer turns on the fan when the computer gets hot. Fan noise is normal and does not indicate a problem with the fan or the computer.

 CAUTION: Do not block, push objects into, or allow dust to accumulate in the air vents. Do not store your computer in a low-airflow environment, such as a closed briefcase, while it is running. Restricting the airflow can damage the computer or cause a fire.

MINI PCI CARD COVER — Covers the compartment that contains the Mini PCI card. See "Adding a Mini PCI Card" on page 83.

HARD DRIVE — Stores software and data.

2

Setting Up Your Computer

Connecting to the Internet

NOTE: ISPs and ISP offerings vary by country.

To connect to the Internet, you need a modem or network connection and an Internet service provider (ISP), such as AOL or MSN. Your ISP will offer one or more of the following Internet connection options:

- Dial-up connections that provide Internet access through a phone line. Dial-up connections are considerably slower than DSL and cable modem connections.
- DSL connections that provide high-speed Internet access through your existing phone line. With a DSL connection, you can access the Internet and use your phone on the same line simultaneously.
- Cable modem connections that provide high-speed Internet access through your local cable TV line.

If you are using a dial-up connection, connect a telephone line to the modem connector on your computer and to the telephone wall jack before you set up your Internet connection. If you are using a DSL or cable modem connection, contact your ISP for setup instructions.

Setting Up Your Internet Connection

To set up an AOL or MSN connection:

1. Save and close any open files, and exit any open programs.
2. Double-click the **MSN Explorer** or **AOL** icon on the Microsoft® Windows® desktop.
3. Follow the instructions on the screen to complete the setup.

If you do not have an **MSN Explorer** or **AOL** icon on your desktop or if you want to set up an Internet connection with a different ISP:

1. Save and close any open files, and exit any open programs.
2. Click the **Start** button and click **Internet Explorer**.

   The **New Connection Wizard** appears.
3. Click **Connect to the Internet**.

4 In the next window, click the appropriate option:

- If you do not have an ISP and want to select one, click **Choose from a list of Internet service providers (ISPs)**.

- If you have already obtained setup information from your ISP but you did not receive a setup CD, click **Set up my connection manually**.

- If you have a CD, click **Use the CD I got from an ISP**.

5 Click **Next**.

If you selected **Set up my connection manually**, continue to step 6. Otherwise, follow the instructions on the screen to complete the setup.

NOTE: If you do not know which type of connection to select, contact your ISP.

6 Click the appropriate option under **How do you want to connect to the Internet?**, and then click **Next**.

7 Use the setup information provided by your ISP to complete the setup.

If you cannot connect to the Internet but have successfully connected in the past, the ISP might have a service outage. Contact your ISP to check the service status, or try connecting again later.

Modem and Internet Connection Problems

NOTICE: Connect the modem to an analog telephone wall jack only. Connecting the modem to a digital telephone network damages the modem.

NOTICE: Modem and network connectors look similar. Do not plug a telephone line into the network connector.

NOTE: If you can connect to your Internet service provider (ISP), your modem is functioning properly. If you are sure that your modem is working properly and you still experience problems, contact your ISP.

CHECK THE TELEPHONE WALL JACK — Disconnect the telephone line from the modem and connect it to a telephone. Listen for a dial tone. Ensure that you have touchtone telephone service. Try connecting the modem to a different telephone wall jack.

Slow connection speeds can be caused by telephone noise as well as by telephone line or network conditions. Contact your telephone company or network administrator for more information.

CONNECT THE MODEM DIRECTLY TO THE TELEPHONE WALL JACK — If you have other telephone devices sharing the line, such as an answering machine, fax machine, surge protector, or line splitter, then bypass them and use the telephone line to connect the modem directly to the telephone wall jack.

CHECK THE CONNECTION — Verify that the telephone line is connected to the modem.

CHECK THE TELEPHONE LINE — Try using a different telephone line. If you are using a line that is 3 m (10 ft) or more in length, try a shorter one.

IRREGULAR DIAL TONE — If you have voice mail service, you might hear an irregular dial tone when you have messages. Contact your telephone company for instructions on restoring a dial tone.

TURN OFF CALL WAITING (CATCH-PHONE) — See your telephone directory for instructions on deactivating this feature. Then adjust the dial-up networking connection properties.

1 Click the **Start** button and click **Control Panel**.

2 Click **Printers and Other Hardware**, click **Phone and Modem Options**, click the **Dialing Rules** tab, and then click **Edit...**.

3 In the **Edit Location** window, ensure that **To disable call waiting, dial:** is checked, and then select the proper code as listed in your telephone directory.

4 Click **Apply** and click **OK**.

5 Close the **Phone and Modems Options** window.

6 Close the **Control Panel** window.

VERIFY THAT THE MODEM IS COMMUNICATING WITH WINDOWS —

1 Click the **Start** button and click **Control Panel**.

2 Click **Printers and Other Hardware** and click **Phone and Modem Options**.

3 Click the **Modems** tab.

4 Click the COM port for your modem.

5 Click **Properties**, click the **Diagnostics** tab, and then click **Query Modem** to verify that the modem is communicating with Windows.

If all commands receive responses, the modem is operating properly.

E-Mail Problems

ENSURE THAT YOU ARE CONNECTED TO THE INTERNET — With the Microsoft Outlook® Express e-mail program open, click **File**. If **Work Offline** has a check mark next to it, click the check mark to remove it and connect to the Internet.

Setting Up a Printer

NOTICE: Complete the operating system setup before you connect a printer to the computer.

See the documentation that came with the printer for setup information, including how to:

- Obtain and install updated drivers.
- Connect the printer to the computer.
- Load paper and install the toner or ink cartridge.
- Contact the printer manufacturer for technical assistance.

Printer Cable

Your printer connects to your computer with either a USB cable or a parallel cable. Your printer may not come with a printer cable, so if you purchase a cable separately, ensure that it is compatible with your printer. If you purchased a printer cable at the same time you purchased your computer, the cable may arrive in the computer box.

Connecting a Parallel Printer

1 Complete the operating system setup, if you have not already done so.

2 Shut down the computer (see "Turning Off Your Computer" on page 27).

◯ **NOTICE:** For best results, use a 3-m (10-ft) or shorter parallel cable.

3 Attach the parallel printer cable to the parallel connector on the computer and tighten the two screws. Attach the cable to the connector on the printer and snap the two clips into the two notches.

parallel connector on computer

connector on printer

screws (2)

clips (2)

parallel printer cable

notches (2)
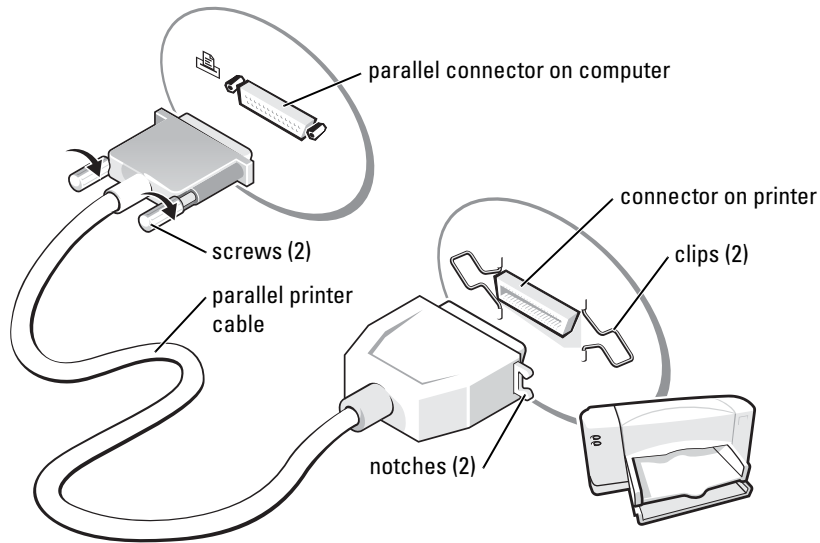
4 Turn on the printer and then turn on the computer. If the **Add New Hardware Wizard** window appears, click **Cancel**.

5 Install the printer driver if necessary. See the documentation that came with your printer.

Connecting a USB Printer

NOTE: You can connect USB devices while the computer is turned on.

1 Complete the operating system setup if you have not already done so.

2 Install the printer driver if necessary. See the documentation that came with your printer.

3 Attach the USB printer cable to the USB connectors on the computer and the printer. The USB connectors fit only one way.

USB connector on computer

USB connector on printer
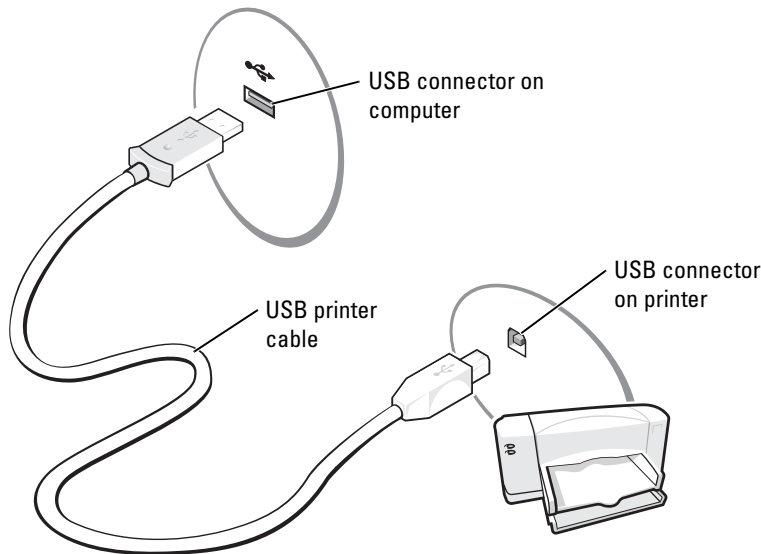
USB printer cable

Printer Problems

CHECK THE PRINTER CABLE CONNECTIONS — Ensure that the printer cable is properly connected to the computer.

TEST THE ELECTRICAL OUTLET — Ensure that the electrical outlet is working by testing it with another device, such as a lamp.

ENSURE THAT THE PRINTER IS TURNED ON — See the documentation supplied with the printer.

VERIFY THAT WINDOWS® RECOGNIZES THE PRINTER

1 Click the **Start** button.

2 Click **Control Panel**.

3 Click **Printers and Other Hardware**.

4 Click **View installed printers or fax printers**. If the printer model is listed, right-click the printer icon.

5 Click **Properties,** and then click the **Ports** tab. Ensure that the **Print to the following port(s):** setting is **LPT1 (Printer Port)**.

REINSTALL THE PRINTER DRIVER — See "Reinstalling Drivers and Utilities" on page 74.

Setting Up the Docking Device to Connect to a Network

NOTE: A network adapter is also referred to as a network interface controller (NIC).

NOTICE: Do not install a network adapter or a network adapter/modem combination PC Card until you complete the docking device setup.

NOTICE: To prevent serious operating system problems, do not connect your computer to a docking device until the Windows operating system setup on the computer is complete.

A docking device allows you to more fully integrate your portable computer into a desktop environment.

For instructions and details on setting up a docking device, refer to the documentation that came packaged with the device.

Power Protection Devices

Several devices are available to protect against power fluctuations and failures:

- Surge protectors
- Line conditioners
- Uninterruptible power supplies (UPS)

Surge Protectors

Surge protectors and power strips equipped with surge protection help to prevent damage to your computer from voltage spikes that can occur during electrical storms or following power interruptions. The level of protection is usually commensurate with the cost of the surge protector. Some surge protector manufacturers include warranty coverage for certain types of damage. Carefully read the device warranty when choosing a surge protector. A device with a higher joule rating offers more protection. Compare joule ratings to determine the relative effectiveness of different devices.

NOTICE: Most surge protectors do not protect against power fluctuations or power interruptions caused by nearby lightning strikes. When lightning occurs in your area, disconnect the telephone line from the telephone wall jack and disconnect your computer from the electrical outlet.

Many surge protectors have a telephone jack for modem protection. See the surge protector documentation for modem connection instructions.

NOTICE: Not all surge protectors offer network adapter protection. Disconnect the network cable from the network wall jack during electrical storms.

Line Conditioners

NOTICE: Line conditioners do not protect against power interruptions.

Line conditioners are designed to maintain AC voltage at a fairly constant level.

Uninterruptible Power Supplies

NOTICE: Loss of power while data is being saved to the hard drive may result in data loss or file damage.

NOTE: To ensure maximum battery operating time, connect only your computer to a UPS. Connect other devices, such as a printer, to a separate power strip that provides surge protection.

A UPS protects against power fluctuations and interruptions. UPS devices contain a battery that provides temporary power to connected devices when AC power is interrupted. The battery charges while AC power is available. See the UPS manufacturer documentation for information on battery operating time and to ensure that the device is approved by Underwriters Laboratories (UL).

Turning Off Your Computer

NOTICE: To avoid losing data, turn off your computer by performing a Microsoft® Windows® operating system shutdown, as described next, rather than by pressing the power button.

NOTE: As an alternative to turning off your computer, you can set your computer to enter standby or hibernate mode.

1 Save and close any open files, exit any open programs, click the **Start** button, and then click **Turn Off Computer**.

2 In the **Turn off computer** window, click **Turn off**.

The computer turns off after the shutdown process finishes.

3

Using Batteries and Module Bay Devices

Using a Battery

Battery Performance

⚠ **CAUTION: Before you begin any of the procedures in this section, follow the safety instructions in the** *Product Information Guide*.

Use a battery to power the computer when the computer is not connected to an electrical outlet. One battery is supplied as standard equipment in the battery bay.

📝 **NOTE:** Battery operating time (the time it can hold a charge) decreases over time. Depending on how often the battery is used and the conditions under which it is used, you may need to purchase a new battery during the life of your computer.

Battery operating time varies depending on operating conditions. With average usage, you may expect from 3 to 4 hours from a single, fully charged battery. You can install an optional second battery in the module bay to significantly increase operating time. For more information about the second battery, see "About the Module Bay" on page 36.

📝 **NOTE:** It is recommended that you connect your computer to an electrical outlet when writing to a CD.

Operating time is significantly reduced when you perform operations including, but not limited to, the following:

- Using optical drives, especially DVD and CD-RW drives
- Using wireless communications devices, PC Cards, or USB devices
- Using high-brightness display settings, 3D screen savers, or other power-intensive programs, such as 3D games
- Running the computer in maximum performance mode

You can check the battery charge on the bottom of the computer. You can also set power management options to alert you when the battery charge is low.

⚠ **CAUTION: Using an incompatible battery may increase the risk of fire or explosion. Replace the battery only with a compatible battery purchased from Dell. The lithium-ion battery is designed to work with your Dell™ computer. Do not use a battery from other computers with your computer.**

⚠ **CAUTION: Do not dispose of batteries with household waste. When your battery no longer holds a charge, call your local waste disposal or environmental agency for advice on disposing of a lithium-ion battery. Read the safety instructions for battery disposal in the** *Product Information Guide*.

⚠ **CAUTION: Misuse of the battery may increase the risk of fire or chemical burn. Do not puncture, incinerate, disassemble, or expose the battery to temperatures above 65°C (149°F). Keep the battery away from children. Handle damaged or leaking batteries with extreme care. Damaged batteries may leak and cause personal injury or equipment damage.**

Checking the Battery Charge

The Dell QuickSet **Battery Meter**, Microsoft® Windows® **Power Meter** window and 🔋 icon, the battery charge gauge and health gauge, and the low-battery warning provide information on the battery charge.

For more information about checking the charge on the second battery, see "About the Module Bay" on page 36.

Dell™ QuickSet Battery Meter

Press <Fn><F3> to display the QuickSet **Battery Meter**.

The **Battery Meter** screen displays status, charge level, and charge completion time for the primary and secondary batteries in your computer.

📝 **NOTE:** Dell recommends that you connect your computer to an electrical outlet when writing to a CD.

The following icons appear in the **Battery Meter** screen:

🔋	The computer or docking device is running on battery power.
⚡	The computer is connected to AC power and the battery is charging.
🔋	The computer is connected to AC power and the battery is fully charged.

For more information about QuickSet, right-click the ⬛ icon in the taskbar, and click **Help**.

Microsoft® Windows® Power Meter

The Windows **Power Meter** indicates the remaining battery charge. To check the **Power Meter**, double-click the 🔋 icon on the taskbar. For more information on the **Power Meter** tab, see the *Dell Inspiron* help file. To access the help file, see page 65.

If the computer is connected to an electrical outlet, a 🔌 icon appears.

Charge Gauge

Press the status button on the battery charge gauge to illuminate the charge-level lights. Each light represents approximately 20 percent of the total battery charge. For example, if the battery has 80 percent of its charge remaining, four of the lights are on. If no lights appear, the battery has no charge.

Health Gauge

The battery operating time is largely determined by the number of times it is charged. After hundreds of charge and discharge cycles, batteries lose some charge capacity, or battery health. To check the battery health, press and hold the status button on the battery charge gauge for at least 3 seconds. If no lights appear, the battery is in good condition, and more than 80 percent of its original charge capacity remains. Each light represents incremental degradation. If five lights appear, less than 60 percent of the charge capacity remains, and you should consider replacing the battery. See "Specifications" on page 89 for more information about the battery operating time.

Low-Battery Warning

⊖ NOTICE: To avoid losing or corrupting data, save your work immediately after a low-battery warning. Then connect the computer to an electrical outlet, or install a second battery in the module bay. If the battery runs completely out of power, hibernate mode begins automatically.

A low-battery warning occurs when the battery charge is approximately 90 percent depleted. The computer beeps once, indicating that minimal battery operating time remains. During that time, the speaker beeps periodically. If two batteries are installed, the low-battery warning means that the combined charge of both batteries is approximately 90 percent depleted. The computer enters hibernate mode when the battery charge is at a critically low level. For more information on low-battery alarms, see the *Dell Inspiron* help file. To access the help file, see "Accessing Help" on page 65.

Charging the Battery

NOTE: The AC adapter charges a completely discharged battery in approximately 1 hour with the computer turned off. Charge time is longer with the computer turned on. You can leave the battery in the computer as long as you like. The battery internal circuitry prevents the battery from overcharging.

When you connect the computer to an electrical outlet or install a battery while the computer is connected to an electrical outlet, the computer checks the battery charge and temperature. If necessary, the AC adapter then charges the battery and maintains the battery charge.

If the battery is hot from being used in your computer or being in a hot environment, the battery may not charge when you connect the computer to an electrical outlet.

Disconnect the computer from the electrical outlet and allow the computer and the battery to cool to room temperature. Then connect the computer to an electrical outlet to continue charging the battery.

For more information on resolving problems with a battery, see "Power Problems" on page 35.

Removing a Battery

For more information about removing the second battery, see "About the Module Bay" on page 36.

⚠ **CAUTION: Before you begin any of the procedures in this section, read the safety instructions your** *Product Information Guide*.

⚠ **CAUTION: Before performing these procedures, turn off the computer, disconnect it from the electrical outlet, and disconnect the modem from the telephone wall jack.**

🔵 **NOTICE:** If you choose to replace the battery with the computer in standby mode, you have up to 90 seconds to complete the battery replacement before the computer shuts down and loses any unsaved data.

1 Ensure that the computer is turned off, disconnected from an electrical outlet, and disconnected from the telephone wall jack.

2 If the computer is connected to a docking device (docked), undock it. See the documentation that came with your docking device for instructions.

3 Slide and hold the battery-bay latch release on the bottom of the computer, and then remove the battery from the bay.
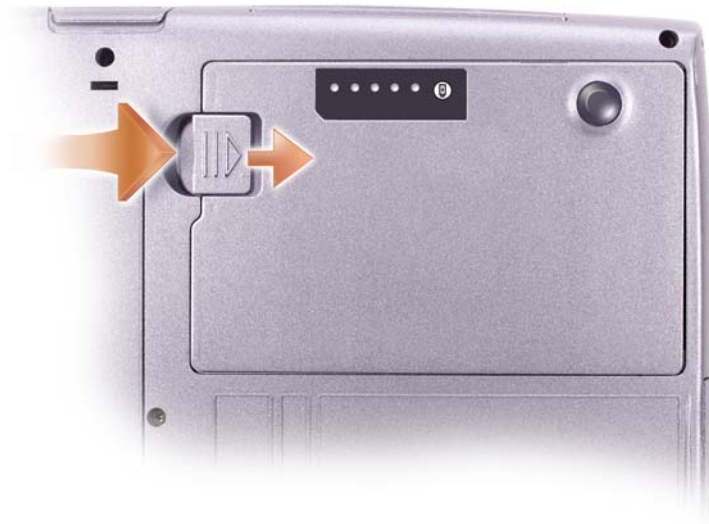
Installing a Battery

⚠ **CAUTION: Before you begin any of the procedures in this section, read the safety instructions in your** *Product Information Guide*.

⚠ **CAUTION: Using an incompatible battery may increase the risk of fire or explosion. Replace the battery only with a compatible battery purchased from Dell. The lithium-ion battery is designed to work with your Dell™ computer. Do not use a battery from other computers with your computer.**

Slide the battery into the bay until the latch release clicks.

For more information about installing the second battery, see "About the Module Bay" on page 36.

Removing and Installing a Reserve Battery

⚠ **CAUTION: Before you begin any of the procedures in this section, read the safety instructions in your** *Product Information Guide*.

📝 **NOTE:** If your computer does not use a reserve battery, it uses a coin-cell battery. The coin-cell battery is not a replaceable part.

1   See "Removing a Battery" on page 32.

2   Remove the reserve battery cover.

3   Pull the reserve battery out of its compartment, and disconnect the reserve battery cable from the connector.

reserve battery cable

connector
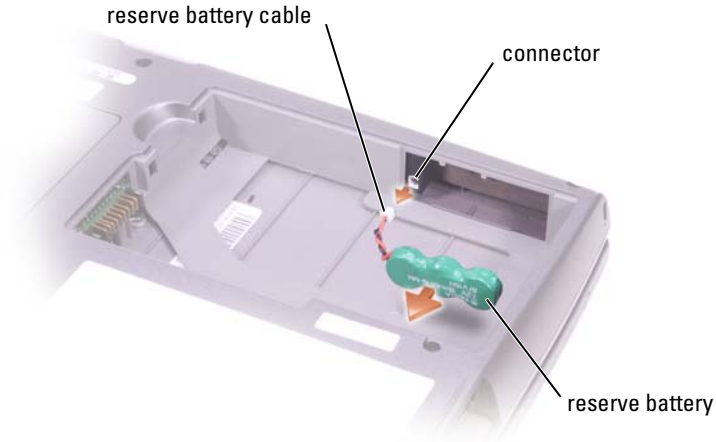
reserve battery

4 Connect the reserve battery cable to the connector in the reserve battery compartment.

5 Place the reserve battery in the compartment, and replace the reserve battery cover.

Storing a Battery

Remove the battery when you store your computer for an extended period of time. A battery discharges during prolonged storage. After a long storage period, recharge the battery fully before you use it.

Power Problems

CHECK THE POWER LIGHT — When the power light is lit or blinking, the computer has power. If the power light is blinking, the computer is in standby mode. Press the power button to exit standby mode. If the light is off, press the power button to turn on the computer.

CHARGE THE BATTERY — The battery charge may be depleted.

1 Reinstall the battery.

2 Use the AC adapter to connect the computer to an electrical outlet.

3 Turn on the computer.

CHECK THE BATTERY STATUS LIGHT — If the battery status light flashes orange or is a steady orange, the battery charge is low or depleted. Connect the computer to an electrical outlet.

If the battery status light flashes green and orange, the battery is too hot to charge. Turn off the computer, disconnect the computer from the electrical outlet, and then let the battery and computer cool to room temperature.

If the battery status light rapidly flashes orange, the battery may be defective. See "Contacting Dell" on page 100.

TEST THE ELECTRICAL OUTLET — Ensure that the electrical outlet is working by testing it with another device, such as a lamp.

CHECK THE AC ADAPTER — Check the AC adapter cable connections. If the AC adapter has a light, ensure that the light is on. Make sure that the AC adapter is a Dell AC adapter that is designed to work with your computer.

CONNECT THE COMPUTER DIRECTLY TO AN ELECTRICAL OUTLET — Bypass power protection devices, power strips, and the extension cable to verify that the computer turns on.

ELIMINATE POSSIBLE INTERFERENCE — Turn off nearby fans, fluorescent lights, halogen lamps, or other appliances.

ADJUST THE POWER PROPERTIES — See the *Dell Inspiron* help file or search for the keyword standby in the Help and Support Center. To access help see "Accessing Help" on page 65.

RESEAT THE MEMORY MODULES — If the computer power light turns on but the display remains blank, reseat the memory modules, see "Adding Memory" on page 81.

About the Module Bay

⚠ **CAUTION: Before you begin any of the procedures in this section, read the safety instructions in your** *Product Information Guide*.

You can install devices such as a floppy drive, CD drive, CD-RW drive, DVD drive, CD-RW/DVD drive, DVD+RW, second battery, or second hard drive in the module bay.

Checking the Charge on the Second Battery

Before you install a second battery, press the status button on the battery charge gauge to illuminate the charge-level lights. Each light represents approximately 20 percent of the total battery charge. For example, if the battery has 80 percent of its charge remaining, four of the lights are on. If no lights appear, the battery has no charge.

status button on the
battery charge gauge

second battery (bottom)
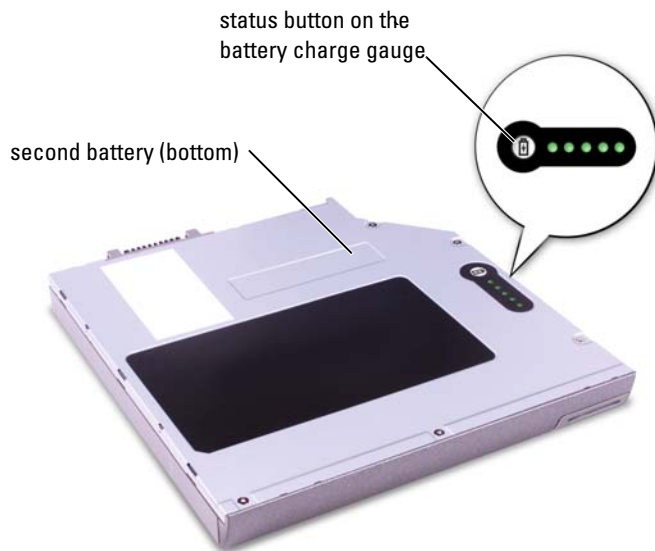
Removing and Installing Devices While the Computer Is Turned Off

⚠️ **CAUTION: Before you begin any of the procedures in this section, read the safety instructions in your** *Product Information Guide***.**

🔴 **NOTICE:** To prevent damage to devices, place them in a safe, dry place when they are not installed in the computer. Avoid pressing down on them or placing heavy objects on top of them.

1   Press the device latch release so that the latch release pops out.

device latch release

2 Pull the device by the latch release to remove the device from the module bay.

3 Insert the new device into the bay, push the device until you feel a click, and push the device latch release in so that it is flush with the computer.

Removing and Installing Devices While the Computer Is Running

⚠️ **CAUTION: Before you begin any of the procedures in this section, read the safety instructions in your *Product Information Guide*.**

📝 **NOTE:** If the device screw is not installed, you can remove and install devices while the computer is running and connected to a docking device (docked).

1 Double-click the **Safely Remove Hardware** icon on the taskbar.

2 Click **Stop** and wait for the operating system to confirm that the device has stopped.

3 Click the device you want to eject.

🔴 **NOTICE:** To prevent damage to devices, place them in a safe, dry place when they are not installed in the computer. Avoid pressing down on them or placing heavy objects on top of them.

4 Press the device latch release so that the latch release pops out.

device latch release

5 Pull the device by the latch release to remove the device from the module bay.

6 Insert the new device into the bay, push the device until you feel a click, and push the device latch release in so that it is flush with the computer. Windows XP automatically recognizes the new device.

7 If necessary, enter your password to unlock your computer.

4

Using the Keyboard and Touch Pad

Numeric Keypad

📝 **NOTE:** When you connect an external keyboard or keypad to the computer, the keypad is disabled.

📝 **NOTE:** You can change options for using the numeric keypad in the system setup program.

The keypad numbers and symbols are marked in blue on the right side of the keypad keys. To type a number or symbol, press <Num Lock> to enable the numeric keypad, and then hold down <Fn> and press the desired key.

Keyboard Shortcuts

System Functions

<Ctrl><Shift><Esc>	Opens the **Windows Task Manager** window.
<Num Lock>	Enables and disables the numeric keypad.
<Fn><Num Lock>	Enables and disables the scroll lock.

Battery

<Fn><F3>	Displays the Dell™ QuickSet Battery Meter.

CD or DVD Tray

<Fn><F10>	Ejects the tray out of the drive.

Display Functions

<Fn><F8>	Switches the video image to the next display in the following sequence: the integrated display only, the integrated display and an external CRT monitor simultaneously, an external CRT monitor only, the integrated display and an external DVI monitor simultaneously, and an external DVI monitor only.
<Fn> and up-arrow key	Increases brightness on the integrated display only (not on an external monitor).
<Fn> and down-arrow key	Decreases brightness on the integrated display only (not on an external monitor).

Radios (Including Wireless Networking and Bluetooth® Wireless Technology)

<Fn><F2>	Enables and disables radios, including wireless networking and Bluetooth wireless technology.

Power Management

<Fn><Esc>	Activates the power management mode of your choice. You can program this keyboard shortcut on the **Advanced** tab in the **Power Options Properties** window.

Speaker Functions

If no sound comes from the speakers, press <Fn><End> and adjust the volume.

<Fn><Page Up>	Increases the volume of the integrated speakers and external speakers, if attached.
<Fn><Page Dn>	Decreases the volume of the integrated speakers and external speakers, if attached.
<Fn><End>	Enables and disables the integrated speakers and external speakers, if attached.

Microsoft® Windows® Logo Key Functions

Windows logo key and <m>	Minimizes all open windows.
Windows logo key and <Shift><m>	Maximizes all windows.
Windows logo key and <e>	Runs Windows Explorer.
Windows logo key and <r>	Opens the **Run** dialog box.
Windows logo key and <f>	Opens the **Search Results** dialog box.
Windows logo key and <Ctrl><f>	Opens the **Search Results-Computer** dialog box (if the computer is connected to a network).
Windows logo key and <Pause>	Opens the **System Properties** dialog box.

To adjust keyboard operation, such as the character repeat rate, open the Control Panel, and click **Printers and Other Hardware**.

Touch Pad

The touch pad detects the pressure and movement of your finger to allow you to move the cursor on the display. Use the touch pad and touch pad buttons as you would use a mouse.

touch pad
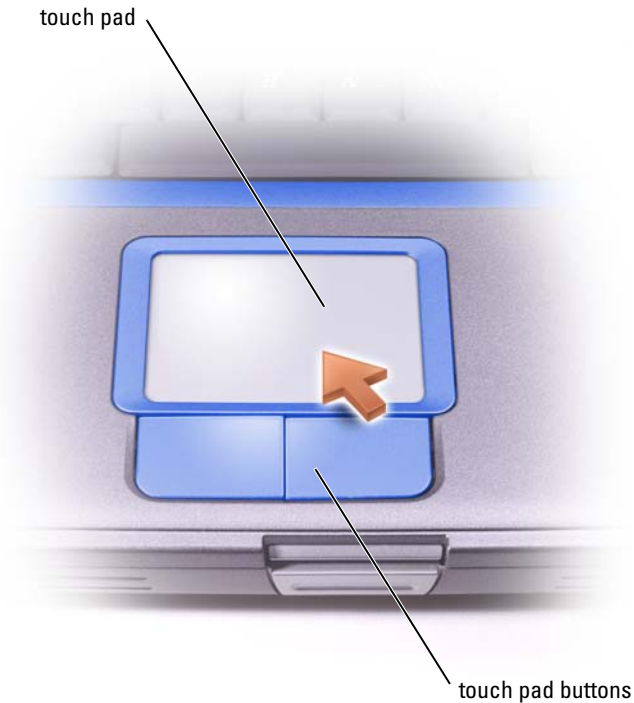
touch pad buttons

- To move the cursor, lightly slide your finger over the touch pad.
- To select an object, lightly tap once on the surface of the touch pad or use your thumb to press the left touch-pad button.
- To select and move (or drag) an object, position the cursor on the object and tap down-up-down on the touch pad. On the second down motion, leave your finger on the touch pad and move the selected object by sliding your finger across the surface.
- To double-click an object, position the cursor on the object and then tap twice on the touch pad, or use your thumb to press the left touch-pad button twice.

Customizing the Touch Pad

You can disable the touch pad or adjust their settings by using the **Mouse Properties** window.

  1 Click the **Start** button, click **Control Panel**, and then double-click the **Mouse** icon.

  2 On the **Mouse Properties** window:

   •   Click the **Device Select** tab to disable the touch pad.

   •   Click the **Pointer** tab to adjust touch pad settings.

  3 Select the desired settings and click **Apply**.

  4 Click **OK** to save the settings and close the window.

Touch Pad or Mouse Problems

CHECK THE TOUCH PAD SETTINGS —

 1 Click the **Start** button, click **Control Panel**, and then click **Printers and Other Hardware**.

 2 Click **Mouse**.

 3 Try adjusting the settings.

TO VERIFY THAT THE PROBLEM IS WITH THE MOUSE, CHECK THE TOUCH PAD —

 1 Shut down the computer (see "Turning Off Your Computer" on page 27).

 2 Disconnect the mouse.

 3 Turn on the computer.

 4 At the Windows desktop, use the touch pad to move the cursor around, select an icon, and open it.

If the touch pad operates correctly, the mouse may be defective.

REINSTALL THE TOUCH PAD DRIVER — See "Reinstalling Drivers and Utilities" on page 74.

External Keyboard Problems

CHECK THE KEYBOARD CABLE — Shut down the computer (see "Turning Off Your Computer" on page 27). Disconnect the keyboard cable and check it for damage.

If you are using a keyboard extension cable, disconnect it and connect the keyboard directly to the computer.

CHECK THE EXTERNAL KEYBOARD —

 1 Turn off the computer, wait 1 minute, and turn it on again.

 2 Verify that the numbers, capitals, and scroll lock lights on the keyboard blink during the boot routine.

 3 From the Windows® desktop, click the **Start** button, point to **All Programs**, point to **Accessories**, and click **Notepad**.

 4 Type some characters on the external keyboard and verify that they appear on the display.

If you cannot verify these steps, you may have a defective external keyboard.

TO VERIFY THAT THE PROBLEM IS WITH THE EXTERNAL KEYBOARD, CHECK THE INTEGRATED KEYBOARD —

1 Turn off the computer.

2 Disconnect the external keyboard.

3 Turn on the computer.

4 From the Windows desktop, click the **Start** button, point to **All Programs**, point to **Accessories**, and click **Notepad**.

5 Type some characters on the external keyboard and verify that they appear on the display.

If the characters appear now but did not with the external keyboard, you may have a defective external keyboard. Contact Dell (see "Contacting Dell" on page 100).

Unexpected Characters

✏ NOTE: When you attach an external keyboard, the integrated keyboard remains fully functional.

DISABLE THE NUMERIC KEYPAD —

Press <Num Lock> to disable the numeric keypad if numbers are displayed instead of letters. Verify that the numbers lock light is not lit.

5

Using CDs, DVDs, and Other Multimedia

Using CDs and DVDs

For information about using CDs and DVDs in your computer, see the *Dell Inspiron* help file. To access the help file, see "Accessing Help" on page 65.

CD and DVD Problems

If you cannot play a CD or DVD

NOTE: Because of different worldwide file types, not all DVD titles work in all DVD drives.

High-speed CD drive vibration is normal and may cause noise. This noise does not indicate a defect with the drive or the CD.

ENSURE THAT WINDOWS® RECOGNIZES THE DRIVE — Click the **Start** button and click **My Computer**. If the drive is not listed, perform a full scan with your antivirus software to check for and remove viruses. Viruses can sometimes prevent Windows from recognizing the drive. Insert a bootable disk and restart the computer. Verify that the ⬚ light is blinking, indicating normal operation.

TRY ANOTHER DISC — Insert another disc to eliminate the possibility that the original disc is defective.

ENSURE THAT THE CD IS SNAPPED TO THE SPINDLE.

ADJUST THE WINDOWS VOLUME CONTROL — Double-click the speaker icon in the lower-right corner of your screen. Ensure that the volume is turned up and that the sound is not muted.

REINSTALL THE DRIVE —

1. Save and close any open files, exit any open programs, and shut down the computer.

2. Remove the drive. See "Using the Module Bay" in the *Dell Inspiron* help file for instructions. To access the help file, see "Accessing Help" on page 65.

3. Reinstall the drive.

4. Turn on the computer.

CLEAN THE DRIVE OR DISC — See "Cleaning Your Computer" in the *Dell Inspiron* help file for instructions. To access the help file, see "Accessing Help" on page 65.

If you cannot eject the CD, CD-RW, or DVD drive tray

1 Ensure that the computer is shut down and turned off (see page 27).

2 Straighten a paper clip and insert one end into the eject hole at the front of the drive; push firmly until the tray is partially ejected.

3 Gently pull out the tray until it stops.

If you hear an unfamiliar scraping or grinding sound

• Ensure that the sound is not caused by the program that is running.

• Ensure that the disk or disc is inserted properly.

If the CD-RW drive stops writing

DISABLE STANDBY MODE IN WINDOWS BEFORE WRITING TO A CD-RW — Search for the keyword *standby* in the Help and Support Center. To access help, see "Accessing Help" on page 65.

CHANGE THE WRITE SPEED TO A SLOWER RATE — See the help files for your CD creation software.

EXIT ALL OTHER OPEN PROGRAMS — Exiting all other open programs before writing to the CD-RW may alleviate the problem.

Sound and Speaker Problems

If you have a problem with integrated speakers

ADJUST THE WINDOWS® VOLUME CONTROL — Double-click the speaker icon in the lower-right corner of your screen. Ensure that the volume is turned up and that the sound is not muted. Adjust the volume, bass, or treble controls to eliminate distortion.

ADJUST THE VOLUME USING THE VOLUME CONTROL BUTTONS — Press the volume control buttons and mute button, which are located above the keyboard.

REINSTALL THE SOUND (AUDIO) DRIVER — See "Reinstalling Drivers and Utilities" on page 74.

If you have a problem with external speakers

✍ NOTE: The volume control in some MP3 players overrides the Windows volume setting. If you have been listening to MP3 songs, make sure that you did not turn the player volume down or off.

CHECK THE SPEAKER CABLE CONNECTIONS — See the setup diagram supplied with the speakers.

TEST THE ELECTRICAL OUTLET — Ensure that the electrical outlet is working by testing it with another device, such as a lamp.

ENSURE THAT THE SPEAKERS ARE TURNED ON — See the setup diagram supplied with the speakers.

ADJUST THE WINDOWS VOLUME CONTROL — Double-click the speaker icon in the lower-right corner of your screen. Ensure that the volume is turned up and that the sound is not muted. Adjust the volume, bass, or treble controls to eliminate distortion.

TEST THE SPEAKERS — Plug the speaker audio cable into the line-out connector on the computer. Ensure that the headphone volume control is turned up. Play a music CD.

RUN THE SPEAKER SELF-TEST — Some speaker systems have a self-test button on the subwoofer. See the speaker documentation for self-test instructions.

ELIMINATE POSSIBLE INTERFERENCE — Turn off nearby fans, fluorescent lights, or halogen lamps to check for interference.

REINSTALL THE SOUND (AUDIO) DRIVER — See "Reinstalling Drivers and Utilities" on page 74.

Copying CDs and DVDs

NOTE: Ensure that you follow all copyright laws when you create CDs.

This section applies only to computers that have a CD-R, CD-RW, DVD+RW, DVD+R, or DVD/CD-RW combo drive.

The following instructions show how to make an exact copy of a CD or DVD. You can also use Sonic RecordNow for other purposes, including creating CDs from audio files on your computer and creating MP3 CDs. For instructions, see the Sonic RecordNow documentation that came with your computer. Open Sonic RecordNow, click the question mark icon in the upper-right corner of the window, and click **RecordNow Help** or **RecordNow Tutorial**.

How to Copy a CD or DVD

1 Click the **Start** button, point to **All Programs**→ **Sonic**→ **RecordNow!**→ **RecordNow!**.

NOTE: Most commercial DVDs have copyright protection and cannot be copied using Sonic RecordNow.

2 Click either the audio tab or the data tab, depending on the kind of CD you are planning to copy.

3 Click **Exact Copy**.

NOTE: If you have a DVD/CD-RW combo drive and you experience recording problems, check for available software patches at the Sonic support website at **support.sonic.com**.

4 To copy the CD or DVD:

- *If you have one CD or DVD drive*, ensure that the settings are correct and click **Copy**. The computer reads your source CD or DVD and copies it to a temporary folder on your computer hard drive.

  When prompted, insert a blank CD or DVD into the CD or DVD drive and click **OK**.

- *If you have two CD or DVD drives*, select the drive into which you have inserted your source CD or DVD and click **Copy**. The computer copies the data on the CD or DVD to the blank CD or DVD.

Once you have finished copying the source CD or DVD, the CD or DVD that you have created automatically ejects.

Using Blank CD-Rs and CD-RWs

Your CD-RW drive can write to two different types of recording media—CD-Rs and CD-RWs. Use blank CD-Rs to record music or permanently store data files. After creating a CD-R, you cannot write to that CD-R again without changing your method of recording (see the Sonic documentation for more information). Use blank CD-RWs to write to CDs or to erase, rewrite, or update data on CDs.

Helpful Tips

- Use Microsoft® Windows® Explorer to drag and drop files to a CD-R or CD-RW only after you start Sonic RecordNow and open a RecordNow project.

- You must use CD-Rs to burn music CDs that you want to play in regular stereos. CD-RWs do not play in most home or car stereos.

- You cannot create audio DVDs with Sonic RecordNow.

- Music MP3 files can be played only on MP3 players or on computers that have MP3 software installed.

- Do not burn a blank CD-R or CD-RW to its maximum capacity; for example, do not copy a 650-MB file to a 650-MB blank CD. The CD-RW drive needs 1 or 2 MB of the blank CD to finalize the recording.

- Use a blank CD-RW to practice CD recording until you are familiar with CD recording techniques. If you make a mistake, you can erase the data on the CD-RW and try again. You can also use blank CD-RWs to test music file projects before you record the project permanently to a blank CD-R.

- See the Sonic support website at **support.sonic.com** for additional information.

Connecting a Television to the Computer

NOTE: Video and audio cables for connecting your computer to a television are not included with your computer. Cables may be purchased at most consumer electronics stores.

Your computer has an S-video TV-out connector that enables you to connect the computer to a television. Using a commercially available S-video cable or composite video cable, you can connect the computer to a television in one of two ways:

- S-video (for a television with S-video input)

- Composite video (for a television with only a composite video input; also uses the Dell-supplied composite TV-out adapter cable)

NOTE: Diagrams for each connection combination appear at the beginning of each subsection to help you determine which method you should use.

The audio connector on the side of the computer enables you to connect the computer to your television or audio device, using a commercially available audio cable.

When you complete the cable connection, see "Enabling the Display Settings for a Television" on page 55 to ensure that the computer recognizes and works properly with the television.

S-Video Connection

Before you begin, ensure that you have the following cables:
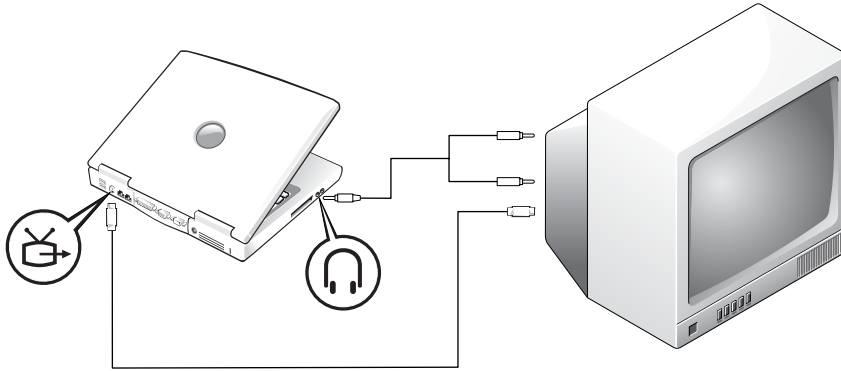
S-video cable
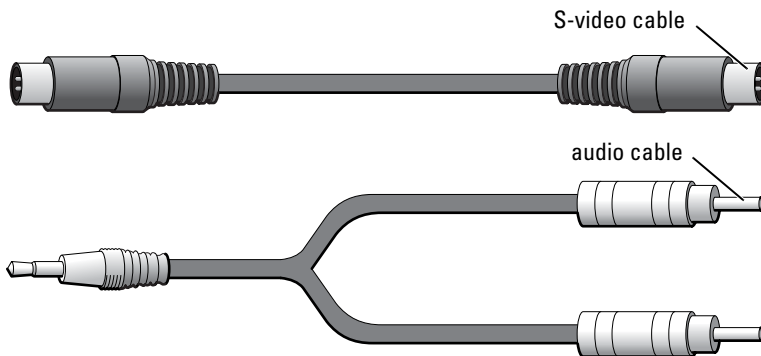
audio cable

1 Shut down the computer and the television and/or audio device you want to connect.

2 Plug one end of the S-video cable into the S-video connector on the computer.
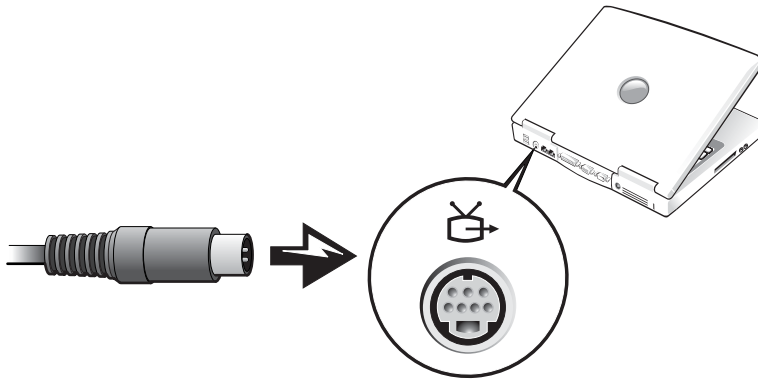
3 Plug the other end of the S-video cable into your television.

4 Plug the single-connector end of the audio cable into the headphone connector on your computer.
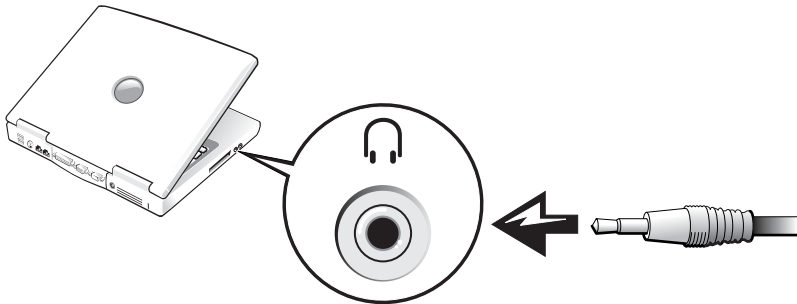
5 Plug the two RCA connectors on the other end of the audio cable into the audio input connectors on your television or audio device.

6 Turn on the television, turn on any audio device you connected, and then turn on the computer.

7 See "Enabling the Display Settings for a Television" on page 55 to ensure that the computer recognizes and works properly with the television.

Composite Video Connection
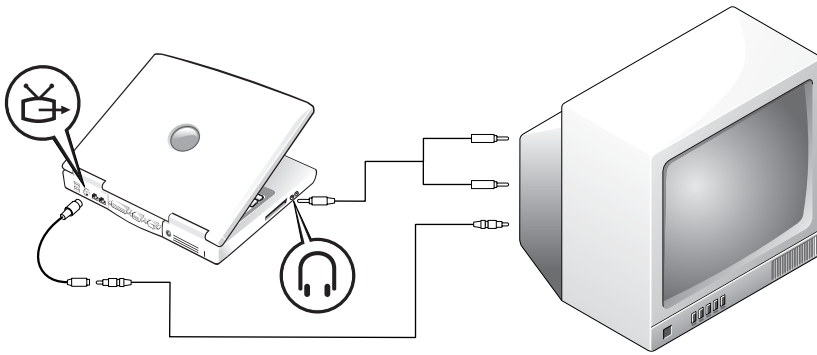
To connect the computer to a television that has a composite video input only, Dell provides a composite TV-out adapter cable. Before you begin, ensure that you have the following cables:

composite TV-out adapter cable

composite video cable
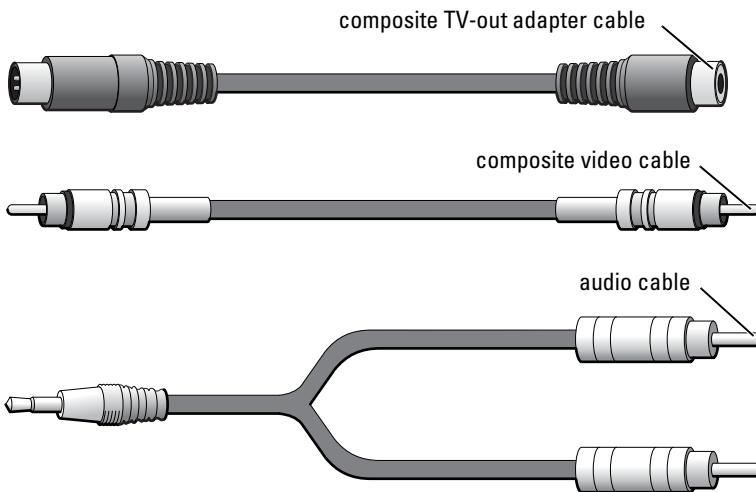
audio cable

1 Turn off the computer and the television and/or audio device you want to connect.

2 Connect the composite TV-out adapter cable to the S-video TV-out connector on the computer.

S-video TV-out connector

S-video connector

composite video connector

composite TV-out
adapter cable
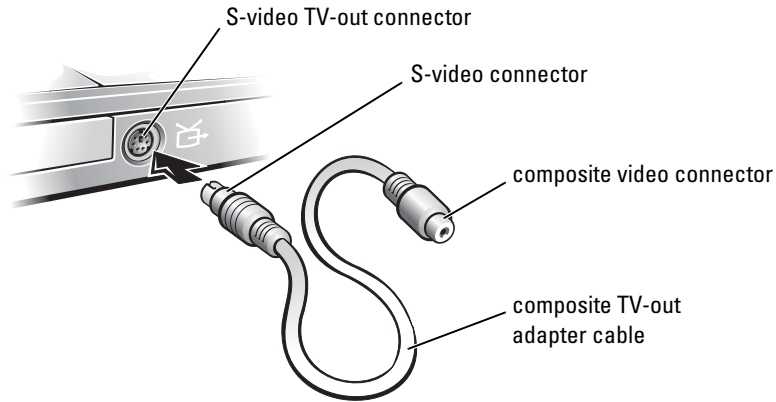
3 Plug one end of the composite video cable into the composite video connector on the composite TV-out adapter cable.

4 Plug the other end of the composite video cable into the composite video connector on the television.

5 Plug the single-connector end of the audio cable into the headphone connector on the computer.
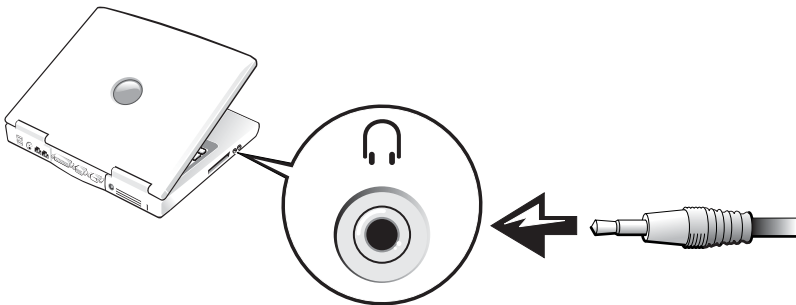
6 Plug the two RCA connectors on the other end of the audio cable into the audio input connectors on your television or audio device.

Enabling the Display Settings for a Television

ATI Video Controller

NOTE: Ensure that you properly connect the television before you enable the display settings.

1. To open the **Control Panel** window, click the **Start** button and then click the **Control Panel** icon.
2. Double-click the **Display** icon, click the **Settings** tab, and then click **Advanced**.
3. Click the **Displays** tab.
4. Click the upper-left corner of the **TV** button to enable the television.
5. To play a DVD on the television, click the small "primary" button (resembles a bull's-eye) at the lower left under the **TV** picture.

NOTE: Various programs access the hardware in different ways. You may or may not need to click the primary button for operations other than playing DVDs.

6. Click **Apply**.
7. Click **Yes** to keep the new settings.
8. Click **OK**.

DVD video is visible only on the display that is set to primary. While the DVD is playing, the DVD player window on your computer display is blank or (if the DVD player window is set to full-screen mode) the entire computer display screen is blank.

Setting Up a Home and Office Network

Connecting to a Network Adapter

Before you connect your computer to a network, the computer must have a network adapter installed and a network cable connected to it.

To connect a network cable:

1 Connect the network cable to the network adapter connector on the back of your computer.

⊿ **NOTE:** Insert the cable until it clicks into place, and then gently pull it to ensure that it is secure.

2 Connect the other end of the network cable to a network connection device, such as a network wall jack.

⊿ **NOTE:** Do not use a network cable with a telephone wall jack.

network cable

network adapter connector on computer
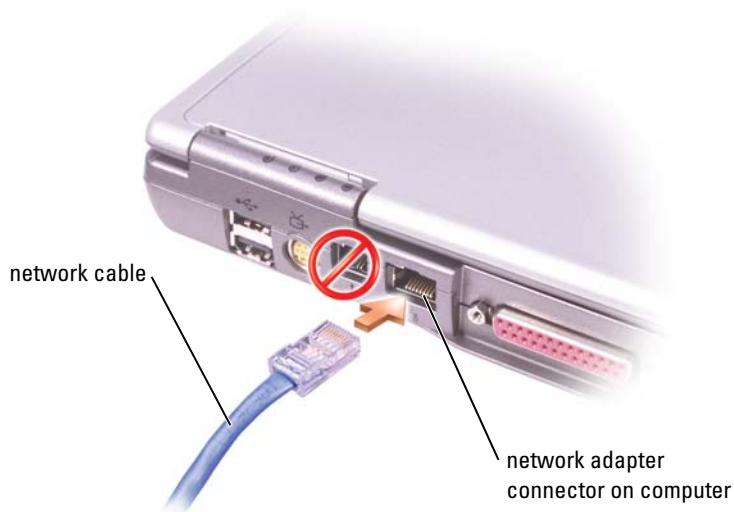
Network Setup Wizard

The Microsoft® Windows® XP operating system provides a Network Setup Wizard to guide you through the process of sharing files, printers, or an Internet connection between computers in a home or small office.

1   Click the **Start** button, point to **All Programs**→ **Accessories**→ **Communications**, and then click **Network Setup Wizard**.

2   On the welcome screen, click **Next**.

3   Click **Checklist for creating a network**.

NOTE: Selecting the connection method **This computer connects directly to the Internet** enables the integrated firewall provided with Windows XP.

4   Complete the checklist and required preparations, and return to the Network Setup Wizard.

5   Follow the instructions on the screen.

Network Problems

CHECK THE NETWORK CABLE CONNECTOR — Ensure that the network cable connector is firmly connected to the optional connector on the computer and the network wall jack.

CHECK THE NETWORK LIGHTS ON THE NETWORK CONNECTOR — Green indicates that the network connection is active. If the status light is not green, try replacing the network cable. Amber indicates that the optional network adapter driver is loaded and that the adapter is detecting activity.

RESTART THE COMPUTER — Try to log on to the network again.

CONTACT YOUR NETWORK ADMINISTRATOR — Verify that your network settings are correct and that the network is functioning.

Connecting to a Wireless Local Area Network

NOTE: These networking instructions do not apply to internal cards with Bluetooth® wireless technology or cellular products.

Determining Your Network Type

NOTE: Most wireless networks are of the infrastructure type.

Wireless networks fall into two categories—infrastructure networks and ad-hoc networks. An infrastructure network uses routers or access points to connect several computers. An ad-hoc network does not use routers or access points and consists of computers that broadcast to one another. For additional assistance with setting up your wireless connection, go to **support.dell.com** and search for the keyword *wireless setup*.
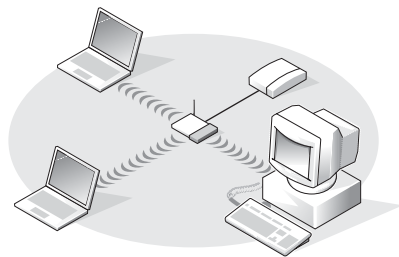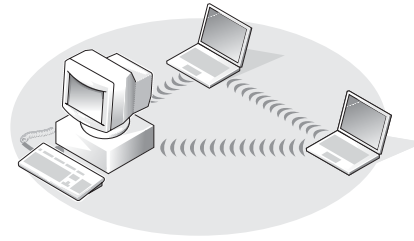
infrastructure network   ad-hoc network

Connecting to a Wireless Network in Microsoft® Windows® XP

Your wireless network card requires specific software and drivers in order to connect to a network. The software is already installed. If the software is removed or corrupted, follow the instructions included in the user's guide for your wireless network card. The user's guide is available on the Dell Support website at **support.dell.com**.

When you turn on your computer, a pop-up appears from the network icon in the notification area (located in the lower-right corner of the Windows desktop) whenever a network, for which your computer is not configured, is detected in the area.

1 Click either the pop-up or the network icon to configure your computer for one of the available wireless networks.

The **Wireless Network Connections** window lists the wireless networks available in your area.
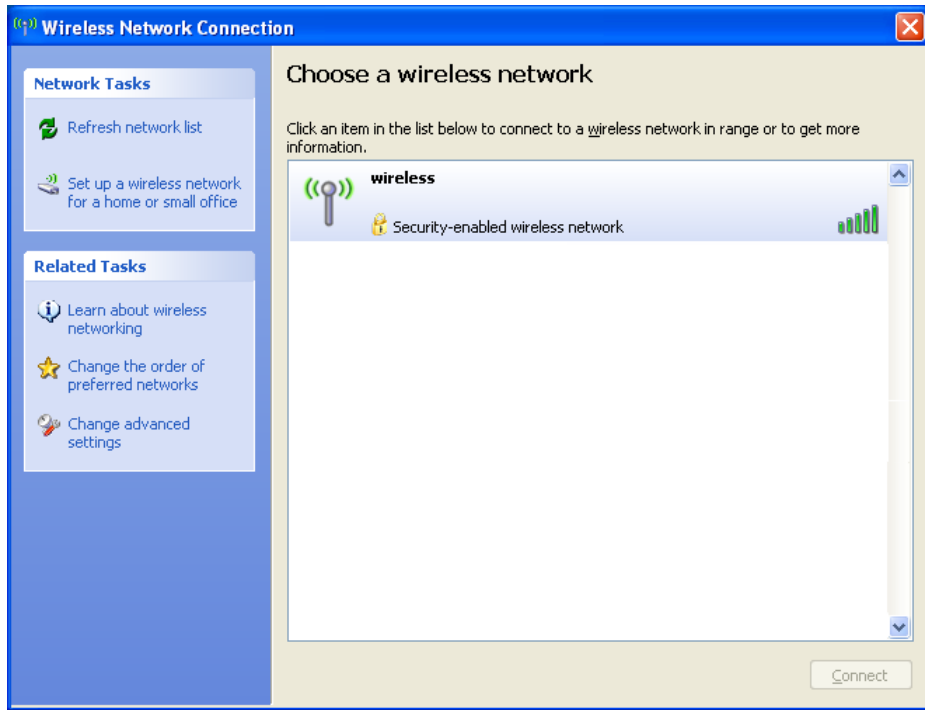
2 Click to select the network you want to configure, and then click **Connect** or double-click the network name in the list. If you select a secure network (identified by a 🔒 icon), you must enter a WEP or WPA key when prompted.

📝 **NOTE:** Network security settings are unique to your network. Dell cannot provide this information.

Your network is configured automatically.

📝 **NOTE:** Your computer can take up to 1 minute to connect to the network.

After your computer is configured for the wireless network you selected, another pop-up notifies you that your computer is connected to the network you selected.

Thereafter, whenever you log on to your computer in the area of the wireless network, the same pop-up notifies you of the wireless network connection.

7

Solving Problems

Finding Solutions

Sometimes it's difficult to figure out where to go for answers. Use this chart to quickly find the answers to your questions.

NOTE: If you have a problem with an external device, see the device documentation or contact the manufacturer.

START HERE

| Is the power light on? | **NO** → | See page 35. |

YES ↓

| Is the power light blinking? | **YES** → | Press the power button to resume from standby mode. See the *Dell Inspiron* help file for more information on standby mode. See page 65. |

NO ↓

| Did you hear **more than one beep** when you turned on the computer? | **YES** → | Get technical assistance from Dell. See page 65. |

NO ↓

| Are you seeing an error message before Windows® starts? | **YES** → | See page 65. |

NO ↓

CONTINUE ▷

Are you having a problem with…

NO ▼

▶	video or the display?	**YES** ▶	See page 66.
	sound or the speakers?	**YES** ▶	See page 48.
	the printer?	**YES** ▶	See page 25.
	the modem?	**YES** ▶	See page 22.
	the scanner?	**YES** ▶	See page 68.
	the touch pad?	**YES** ▶	See page 45.
	the external keyboard?	**YES** ▶	See page 45.
	unexpected characters?	**YES** ▶	See page 46.
	the hard drive or a disk drive?	**YES** ▶	See page 68
	the network adapter?	**YES** ▶	See page 58.
	Windows error messages?	**YES** ▶	See page 65.
	a program?	**YES** ▶	See page 71.
	the Internet?	**YES** ▶	See page 21.
	your e-mail?	**YES** ▶	See page 23.

Are you having some other type of problem?

YES ▶ See page 73.

Accessing Help

Error Messages

If the message is not listed, see the documentation for the operating system or the program that was running at the time the message appeared.

THE FILE BEING COPIED IS TOO LARGE FOR THE DESTINATION DRIVE — The file that you are trying to copy is too large to fit on the disk, or the disk is too full. Try copying the file to a different disk or use a larger capacity disk.

A FILENAME CANNOT CONTAIN ANY OF THE FOLLOWING CHARACTERS: \ /: *? " < > | — Do not use these characters in filenames.

INSERT BOOTABLE MEDIA — The operating system is trying to boot to a nonbootable floppy disk or CD. Insert a bootable floppy disk or CD.

NON-SYSTEM DISK OR DISK ERROR — A floppy disk is in the floppy drive. Remove the floppy disk and restart the computer.

NOT ENOUGH MEMORY OR RESOURCES. EXIT SOME PROGRAMS AND TRY AGAIN — You have too many programs open. Close all windows and open the program that you want to use.

OPERATING SYSTEM NOT FOUND — Contact Dell (see "Accessing Help" on page 65).

A REQUIRED .DLL FILE WAS NOT FOUND — The program that you are trying to open is missing an essential file. Remove and then reinstall the program.

 1 Click the **Start** button.

 2 Click **Control Panel**.

 3 Click **Add or Remove Programs**.

 4 Select the program you want to remove.

 5 Click **Remove** or **Change/Remove** and follow the prompts on the screen.

 6 See the program documentation for installation instructions.

X:\ IS NOT ACCESSIBLE. THE DEVICE IS NOT READY — Insert a disk into the drive and try again.

Video and Display Problems

If the display is blank

 NOTE: If you are using a program that requires a higher resolution than your computer supports, it is recommended that you attach an external monitor to your computer.

CHECK THE (⏻) LIGHT — When the (⏻) light is blinking, the computer has power.

 • If the (⏻) light is blinking, the computer is in standby mode—press the power button to exit standby mode.
 • If the (⏻) light is off, press the power button.
 • If the (⏻) light is on, your power management settings may have caused the display to turn off. Try pressing any key or move the cursor to exit standby mode.

CHECK THE BATTERY — If you are using a battery to power your computer, the battery charge may be depleted. Connect the computer to an electrical outlet using the AC adapter, and turn on the computer.

TEST THE ELECTRICAL OUTLET — Ensure that the electrical outlet is working by testing it with another device, such as a lamp.

CHECK THE AC ADAPTER — Check the AC adapter cable connections. If the AC adapter has a light, ensure that it is on.

CONNECT THE COMPUTER DIRECTLY TO AN ELECTRICAL OUTLET — Bypass power protection devices, power strips, and the extension cable to verify that the computer turns on. To access the help file, see "Accessing Help" on page 65.

ADJUST THE POWER PROPERTIES — Search for the keyword *standby* in the Help and Support Center. For instructions on accessing help files, see "Accessing Help" on page 65.

SWITCH THE VIDEO IMAGE — If your computer is attached to an external monitor, press <Fn><F8> to switch the video image to the display.

If the display is difficult to read

ADJUST THE BRIGHTNESS — See the *Dell Inspiron* help file for instructions on adjusting the brightness. To access the help file, see "Accessing Help" on page 65.

MOVE THE SUBWOOFER AWAY FROM THE COMPUTER OR MONITOR — If your external speaker system includes a subwoofer, ensure that the subwoofer is at least 60 cm (2 ft) away from the computer or external monitor.

ELIMINATE POSSIBLE INTERFERENCE — Turn off nearby fans, fluorescent lights, halogen lamps, or other appliances.

ROTATE THE COMPUTER TO FACE A DIFFERENT DIRECTION — Eliminate sunlight glare, which can cause poor picture quality.

ADJUST THE WINDOWS DISPLAY SETTINGS —
  1 Click the **Start** button and click **Control Panel**.
  2 Click **Appearance and Themes**.
  3 Click the area you want to change or click the **Display** icon.
  4 Try different settings for **Color quality** and **Screen resolution**.

SEE "ERROR MESSAGES" — If an error message appears, see "Error Messages" on page 65.

If only part of the display is readable

CONNECT AN EXTERNAL MONITOR —

1 Turn off your computer and connect an external monitor to the computer.

2 Turn on the computer and the monitor, and adjust the monitor brightness and contrast controls.

If the external monitor works, the computer display or video controller may be defective. Contact Dell ("Contacting Dell" on page 100).

Scanner Problems

Ø **NOTE:** If you can connect to your Internet service provider (ISP), your modem is functioning properly. If you are sure that your modem is working properly and you still experience problems, contact your ISP.

CHECK THE POWER CABLE CONNECTION — Ensure that the scanner power cable is firmly connected to a working electrical power source and that the scanner is turned on.

CHECK THE SCANNER CABLE CONNECTION — Ensure that the scanner cable is firmly connected to the computer and to the scanner.

UNLOCK THE SCANNER — Ensure that your scanner is unlocked if it has a locking tab or button.

REINSTALL THE SCANNER DRIVER — See the scanner documentation for instructions.

Drive Problems

Ø **NOTE:** For information on saving files to a floppy disk, see the *Dell Inspiron* help file. To access the help file, see "Accessing Help" on page 65.

If you cannot save a file to a floppy drive

ENSURE THAT WINDOWS® RECOGNIZES THE DRIVE — Click the **Start** button and click **My Computer**. If the drive is not listed, perform a full scan with your antivirus software to check for and remove viruses. Viruses can sometimes prevent Windows from recognizing the drive. Insert a bootable disk and restart the computer. Verify that the 🗄 light is blinking, indicating normal operation.

ENSURE THAT THE DISK IS NOT WRITE-PROTECTED — You cannot save data to a write-protected disk. See the following figure.

back of floppy disk

write-protected

not write-protected
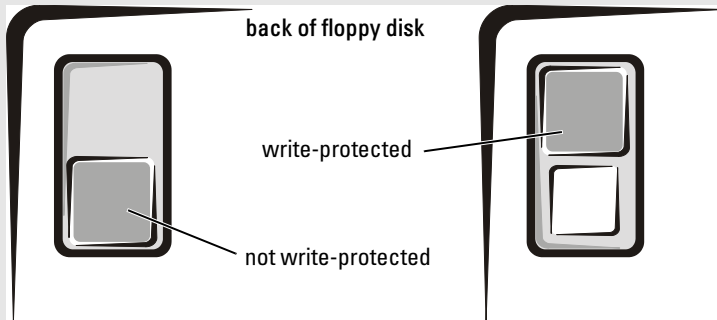
TRY ANOTHER FLOPPY DISK — Insert another disk to eliminate the possibility that the original disk is defective.

REINSTALL THE DRIVE —

1 Save and close any open files, exit any open programs, and shut down the computer.
2 Remove the drive from the module bay. See "Using the Module Bay" in the *Dell Inspiron* help file for instructions. To access the help file, see "Accessing Help" on page 65.
3 Reinstall the drive.
4 Turn on the computer.

CLEAN THE DRIVE — See "Cleaning Your Computer" in the *Dell Inspiron* help file for instructions. To access the help file, see "Accessing Help" on page 65.

If you have problems with a hard drive

ALLOW THE COMPUTER TO COOL BEFORE TURNING IT ON — A hot hard drive may prevent the operating system from starting. Try allowing the computer to return to room temperature before turning it on.

CHECK THE DRIVE FOR ERRORS —
1 Click the **Start** button and click **My Computer**.
2 Right-click the drive letter (local disk) that you want to scan for errors, and then click **Properties**.
3 Click the **Tools** tab.
4 Under **Error-checking**, click **Check Now**.
5 Click **Start**.

PC Card Problems

CHECK THE PC CARD — Ensure that the PC Card is properly inserted into the connector.

ENSURE THAT THE CARD IS RECOGNIZED BY WINDOWS® — Double-click the **Unplug or Eject Hardware** icon in the Windows taskbar. Ensure that the card is listed.

IF YOU HAVE PROBLEMS WITH A DELL-PROVIDED PC CARD — Contact Dell (see "Accessing Help" on page 65).

IF YOU HAVE PROBLEMS WITH A PC CARD NOT PROVIDED BY DELL —

Contact the PC Card manufacturer.

General Program Problems

A program crashes

NOTE: Software usually includes installation instructions in its documentation or on a floppy disk or CD.

SEE THE SOFTWARE DOCUMENTATION — Many software manufacturers maintain websites with information that may help you solve the problem. Ensure that you properly installed and configured the program. Reinstall the program if necessary.

A program stops responding

END THE PROGRAM —
1 Simultaneously press <Ctrl><Shift><Esc>.
2 Click the **Applications** tab, and then select the program that is no longer responding.
3 Click **End Task.**

Error messages appear

REVIEW "ERROR MESSAGES" — Look up the message and take the appropriate action. See the software documentation.

If Your Computer Gets Wet

⚠ CAUTION: **Perform this procedure only after you are certain that it is safe to do so. If the computer is connected to an electrical outlet, it is recommended that you turn off AC power at the circuit breaker before attempting to remove the power cables from the electrical outlet. Use the utmost caution when removing wet cables from a live power source.**

1 Shut down the computer (see "Turning Off Your Computer" on page 27), disconnect the AC adapter from the computer, and then disconnect the AC adapter from the electrical outlet.

2 Turn off any attached external devices, and disconnect them from their power sources and then from the computer.

3 Ground yourself by touching one of the metal connectors on the back of the computer.

4 Remove the module bay device and any installed PC Cards, and put them in a safe place to dry.

5 Remove the battery.

6 Wipe off the battery and put it in a safe place to dry.

7 Remove the hard drive (see "Replacing the Hard Drive" on page 86).

8 Remove the memory module(s) (see "Adding Memory" on page 81).

9 Open the display and place the computer right-side up across two books or similar props to let air circulate all around it. Let the computer dry for at least 24 hours in a dry area at room temperature.

⚠ CAUTION: To help prevent electrical shock, verify that the computer is thoroughly dry before continuing with the rest of this procedure.

⊘ NOTICE: Do not use artificial means, such as a hair dryer or a fan, to speed the drying process.

10 Ground yourself by touching one of the metal connectors on the back of the computer.

11 Replace the memory module(s), the memory module cover, and the screw(s).

12 Replace the hard drive.

13 Replace the module bay device and any PC Cards you removed.

14 Replace the battery.

15 Turn on the computer.

If the computer does not start, or if you cannot identify the damaged components, contact Dell (see "Contacting Dell" on page 100).

If You Drop or Damage Your Computer

1 Save and close any open files, exit any open programs, and shut down the computer (see "Turning Off Your Computer" on page 27).

2 Disconnect the AC adapter from the computer and from the electrical outlet.

3 Turn off any attached external devices, and disconnect them from their power sources and then from the computer.

4 Remove and reinstall the battery.

5 Turn on the computer.

If the computer does not start, or if you cannot identify the damaged components, contact Dell (see "Contacting Dell" on page 100).

Resolving Other Technical Problems

GO TO THE DELL SUPPORT WEBSITE — Go to **support.dell.com** for help with general usage, installation, and troubleshooting questions. See "Dell Technical Support Policy (U.S. Only)" on page 98 for a description of the hardware and software support provided by Dell.

E-MAIL DELL — Go to **support.dell.com** and then click **E-Mail Dell** in the **Communicate** list. Send an e-mail message to Dell about your problem; you can expect to receive an e-mail message from Dell within hours. See "Dell Technical Support Policy (U.S. Only)" on page 98 for a description of the hardware and software support provided by Dell.

CONTACT DELL — If you cannot solve your problem using the Dell™ Support website or e-mail service, call Dell for technical assistance (see "Dell Technical Support Policy (U.S. Only)" on page 98). See "Dell Technical Support Policy (U.S. Only)" on page 98 for a description of the hardware and software support provided by Dell.

Drivers

What Is a Driver?

A driver is a program that controls a device such as a printer, mouse, or keyboard. All devices require a driver program.

A driver acts like a translator between the device and the programs that use the device. Each device has its own set of specialized commands that only its driver recognizes.

Dell ships your computer to you with required drivers already installed—no further installation or configuration is needed.

◯ **NOTICE:** Ensure that you are installing software appropriate for your operating system.

Many drivers, such as the keyboard driver, come with your Microsoft® Windows® operating system. You may need to install drivers if you:

- Upgrade your operating system.
- Reinstall your operating system.
- Connect or install a new device.

Identifying Drivers

If you experience a problem with any device, identify whether the driver is the source of your problem and, if necessary, update the driver.

1 Click the **Start** button and click **Control Panel**.

2 Under **Pick a Category**, click **Performance and Maintenance**.

3 Click **System**.

4 In the **System Properties** window, click the **Hardware** tab.

5 Click **Device Manager**.

6 Scroll down the list to see if any device has an exclamation point (a yellow circle with a [!]) on the device icon.

   If an exclamation point is next to the device name, you may need to reinstall the driver or install a new driver.

Reinstalling Drivers and Utilities

NOTICE: The Dell Support website at **support.dell.com** provides approved drivers for Dell™ computers. If you install drivers obtained from other sources, your computer might not work correctly.

Using Windows XP Device Driver Rollback

If a problem occurs on your computer after you install or update a driver, use Windows XP Device Driver Rollback to replace the driver with the previously installed version.

1 Click the **Start** button and click **Control Panel**.

2 Under **Pick a Category**, click **Performance and Maintenance**.

3 Click **System**.

4 In the **System Properties** window, click the **Hardware** tab.

5 Click **Device Manager**.

6 Right-click the device for which the new driver was installed and click **Properties**.

7 Click the **Drivers** tab.

8 Click **Roll Back Driver**.

If Device Driver Rollback does not resolve the problem, then use System Restore (see "Restoring Your Operating System" on page 75) to return your computer to the operating state that existed before you installed the new driver.

Manually Reinstalling Drivers for Windows XP

🖋 **NOTE:** If you are reinstalling an infrared sensor driver, you must first enable the infrared sensor in the system setup program (see "System Setup Screens" on page 95) before continuing with the driver installation.

1 After copying the required driver files to your hard drive, click the Start button and right-click My Computer.

2 Click the **Start** button and right-click **My Computer**.

3 Click **Properties**.

4 Click the **Hardware** tab and click **Device Manager**.

5 Double-click the type of device for which you are installing the driver (for example, **Modems** or **Infrared devices**).

6 Double-click the name of the device for which you are installing the driver.

7 Click the **Driver** tab and click **Update Driver**.

8 Click **Install from a list or specific location (Advanced)** and click **Next**.

9 Click **Browse** and browse to the location to which you previously extracted the driver files.

10 When the name of the appropriate driver appears, click **Next**.

11 Click **Finish** and restart your computer.

Restoring Your Operating System

You can restore your operating system in the following ways:

- Microsoft Windows XP System Restore returns your computer to an earlier operating state without affecting data files.
- Dell PC Restore by Symantec restores your hard drive to the operating state it was in when you purchased the computer. Dell PC Restore permanently deletes all data on the hard drive and removes any applications installed after you received the computer.

🖋 **NOTE:** Dell PC Restore is available only on computers purchased in certain regions.

Using Microsoft Windows XP System Restore

The Microsoft Windows XP operating system provides System Restore to allow you to return your computer to an earlier operating state (without affecting data files) if changes to the hardware, software, or other system settings have left the computer in an undesirable operating state.

🔵 **NOTICE:** Make regular backups of your data files. System Restore does not monitor your data files or recover them.

🖋 **NOTE:** The procedures in this document were written for the Windows default view, so they may not work if you set your Dell™ computer to the Windows Classic view.

Creating a Restore Point

1   Click the **Start** button and click **Help and Support**.

2   Click **System Restore**.

3   Follow the instructions on the screen.

Restoring the Computer to an Earlier Operating State

If problems occur after you install a device driver, use Device Driver Rollback (see page 75) to resolve the problem. If that is unsuccessful, then use System Restore.

🔵 **NOTICE:** Before you restore the computer to an earlier operating state, save and close any open files and exit any open programs. Do not alter, open, or delete any files or programs until the system restoration is complete.

1   Click the **Start** button, point to **All Programs**→ **Accessories**→ **System Tools**, and then click **System Restore**.

2   Ensure that **Restore my computer to an earlier time** is selected and click **Next**.

3   Click a calendar date to which you want to restore your computer.

    The **Select a Restore Point** screen provides a calendar that allows you to see and select restore points. All calendar dates with available restore points appear in boldface type.

4   Select a restore point and click **Next**.

    If a calendar date has only one restore point, then that restore point is automatically selected. If two or more restore points are available, click the restore point that you prefer.

5   Click **Next**.

    The **Restoration Complete** screen appears after System Restore finishes collecting data and then the computer restarts.

6   After the computer restarts, click **OK**.

To change the restore point, you can either repeat the steps using a different restore point, or you can undo the restoration.

Undoing the Last System Restore

🔵 **NOTICE:** Before you undo the last system restore, save and close all open files and exit any open programs. Do not alter, open, or delete any files or programs until the system restoration is complete.

1   Click the **Start** button, point to **All Programs**→ **Accessories**→ **System Tools**, and then click **System Restore**.

2   Click **Undo my last restoration** and click **Next**.

Enabling System Restore

If you reinstall Windows XP with less than 200 MB of free hard-disk space available, System Restore is automatically disabled. To see if System Restore is enabled:

1 Click the **Start** button and click **Control Panel**.

2 Click **Performance and Maintenance**.

3 Click **System**.

4 Click the **System Restore** tab.

5 Ensure that **Turn off System Restore** is unchecked.

Using Dell PC Restore by Symantec

NOTE: Dell PC Restore is available only on computers purchased in certain regions.

Use Dell PC Restore by Symantec only as the last method to restore your operating system. PC Restore restores your hard drive to the operating state it was in when you purchased the computer. Any programs or files added since you received your computer—including data files—are permanently deleted from the hard drive. Data files include documents, spreadsheets, e-mail messages, digital photos, music files, and so on. If possible, back up all data before using PC Restore.

NOTICE: Using PC Restore permanently deletes all data on the hard drive and removes any applications or drivers installed after you received your computer. If possible, back up the data before using PC Restore.

To use PC Restore:

1 Turn on the computer.

During the boot process, a blue bar with **www.dell.com** appears at the top of the screen.

2 Immediately upon seeing the blue bar, press <Ctrl><F11>.

If you do not press <Ctrl><F11> in time, let the computer finish restarting, and then restart the computer again.

NOTICE: If you do not want to proceed with PC Restore, click Reboot in the following step.

3 On the next screen that appears, click **Restore**.

4 On the next screen, click **Confirm**.

The restore process takes approximately 6–10 minutes to complete.

5 When prompted, click **Finish** to reboot the computer.

NOTE: Do not manually shut down the computer. Click Finish and let the computer completely reboot.

6 When prompted, click **Yes**.

The computer restarts. Because the computer is restored to its original operating state, the screens that appear, such as the End User License Agreement, are the same ones that appeared the first time the computer was turned on.

7 Click **Next**.

The **System Restore** screen appears and the computer restarts.

8 After the computer restarts, click **OK**.

Removing PC Restore

⊘ **NOTICE:** PC Restore enables you to restore your computer's operating system to the condition it was in when you purchased your computer. It is recommended that you *do not* remove PC Restore from your computer, even to gain additional hard drive space. If you remove PC Restore from the hard drive, you cannot ever recall it, and you will never be able to use PC Restore to return your computer's operating system to its original state.

1 Log on to the computer as a local administrator.

2 In Windows Explorer, go to **c:\dell\utilities\DSR**.

3 Double-click the filename **DSRIRRemv2.exe**.

> ✍ **NOTE:** If you do not log on as a local administrator, a message appears stating that you that you must do so. Click **Quit** and log on as a local administrator.

If the partition for PC Restore does not exist, a message appears stating that the partition was not found. Click **Quit**; there is no partition to delete.

4 Click **OK** to remove the partition.

5 Click **Yes** when a confirmation message appears.

The partition is deleted and the **c:** partition expands to include the newly available disk space. To check the available space, right-click the **c:** drive in Windows Explorer and select **Properties**.

6 Click **Finish** to close the **PC Restore Removal** window.

7 Restart the computer.

Resolving Software and Hardware Incompatibilities

Windows XP IRQ conflicts occur if a device either is not detected during the operating system setup or is detected but incorrectly configured.

To check for conflicts on a computer running Windows XP:

1 Click the **Start** button and click **Control Panel**.

2 Click **Performance and Maintenance** and click **System**.

3 Click the **Hardware** tab and click **Device Manager**.

4 In the **Device Manager** list, check for conflicts with the other devices.

Conflicts are indicated by a yellow exclamation point (!) beside the conflicting device or a red x if the device has been disabled.

5 Double-click any conflict to display the **Properties** window.

If an IRQ conflict exists, the **Device** status area in the **Properties** window reports the cards or devices that share the device's IRQ.

6 Resolve conflicts by reconfiguring the devices or removing the devices from the **Device Manager**.

To use the Windows XP Hardware Troubleshooter:

1 Click the **Start** button and click **Help and Support**.

2 Type hardware troubleshooter in the **Search** field and click the arrow to start the search.

3 Click **Hardware Troubleshooter** in the **Search Results** list.

4 In the **Hardware Troubleshooter** list, click **I need to resolve a hardware conflict on my computer**, and click **Next**.

8

Adding and Replacing Parts

Adding Memory

You can increase your computer memory by installing memory modules on the system board. See "Specifications" on page 89 for information on the memory supported by your computer. Be sure to add only memory modules that are intended for your computer.

⚠ **CAUTION: Before working inside your Dell™ computer, read the safety instructions in the** *Product Information Guide*.

✍ **NOTE:** Memory modules purchased from Dell are covered under your computer warranty.

1 Save and close any open files, exit any open programs, and shut down the computer (see "Turning Off Your Computer" on page 27).

2 If the computer is connected to a docking device (docked), undock it. See the documentation that came with your docking device for instructions.

3 Remove all installed batteries, and disconnect the AC adapter cable and any external devices from the computer. Wait 5 seconds before proceeding.

4 Ground yourself by touching a metal connector on the back of the computer, and continue to do so periodically during this procedure.

🔾 **NOTICE:** While you work, periodically touch unpainted metal on the computer to dissipate static electricity that might harm internal components.

5 Turn the computer over, remove the screw from the memory module cover, and lift the cover.
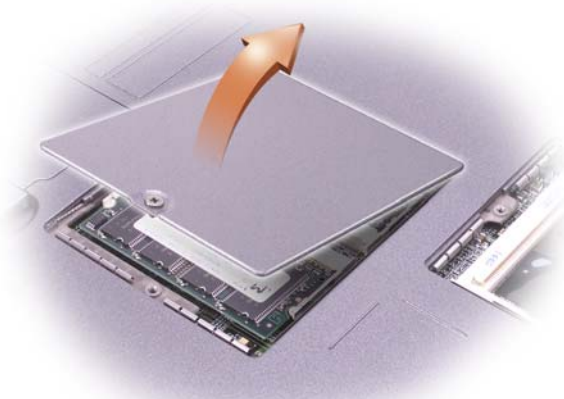
⊖ **NOTICE:** To prevent damage to the memory module connector, do not use tools to spread the inner metal tabs that secure the memory module.

6 If you are replacing a memory module, remove the existing module.

⊖ **NOTICE:** Handle memory modules by their edges, and do not touch the components on a module.

    a Use your fingertips to carefully spread apart the securing clips on each end of the memory module connector until the module pops up.

    b Remove the module from the connector.
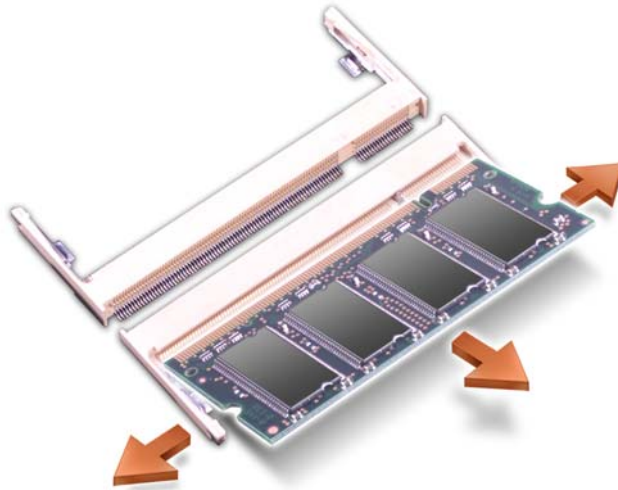
⊖ **NOTICE:** If you need to install memory modules in two connectors, install a memory module in the connector labeled "SLOT 1" before you install a module in the other connector.

7 Ground yourself and install the new memory module:

✐ **NOTE:** If the memory module is not installed properly, the computer does not boot. No error message indicates this failure.

    a Align the notch in the module with the slot in the center of the connector.

⊖ **NOTICE:** Only hold the module by the shorter, notched ends. Do not push on the longer, outer edge.

    b Holding the shorter, notched ends of the module, slide the edge of the module firmly into the connector, and rotate the module down until you feel a click. If you do not feel the click, remove the module and reinstall it.

8 Replace the cover and screw.

⊖ **NOTICE:** If the memory module cover is difficult to close, remove the module and reinstall it. Forcing the cover to close may damage your computer.

9 Insert the battery into the battery bay, or connect the AC adapter to your computer and an electrical outlet.

10 Turn on the computer.

As the computer boots, it detects the additional memory and automatically updates the system configuration information.

Adding a Mini PCI Card

⚠ **CAUTION: FCC rules strictly prohibit users from installing 5-GHz (802.11a, 802.11a/b, 802.11a/b/g) Wireless LAN Mini PCI cards. Under no circumstances should the user install such a device. Only trained Dell service personnel are authorized to install a 5-GHz Wireless LAN Mini PCI card.**

If you are removing and/or installing a 2.4-GHz (802.11b, 802.11b/g) Mini PCI card, follow the instructions noted below. Only products approved for use in your portable computer may be installed. Approved Mini PCI cards may be purchased only from Dell.

✍ **NOTE:** 2.4-G Hz Wireless LAN PC Cards may be removed and installed by the user.

If you ordered a Mini PCI card at the same time that you ordered your computer, Dell has already installed the card for you.

⚠ **CAUTION: Before working inside your computer, read the safety instructions in the *Product Information Guide*.**

✍ **NOTE:** Handle components and cards by their edges, and avoid touching pins and contacts.

1 Ensure that the work surface is flat and clean to prevent scratching the computer cover.

2 Save and close any open files, exit any open programs, and shut down the computer (see "Turning Off Your Computer" on page 27).

3 If the computer is connected to a docking device (docked), undock it. See the documentation that came with your docking device for instructions.

4 Remove all installed batteries, and disconnect the AC adapter cable and any external devices from the computer. Wait 5 seconds before proceeding.

5 Ground yourself by touching a metal connector on the back of the computer, and continue to do so periodically during this procedure.

6 Turn the computer over, and remove the screw from the Mini PCI card cover.
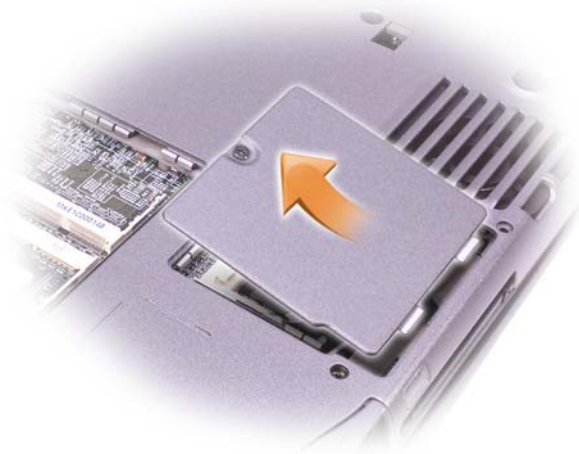
7 Place your finger under the cover at the indentation, and lift and slide the cover open.

8   If a Mini PCI card is not already installed, go to step 9. If you are replacing a Mini PCI card, remove the existing card:

    a   Disconnect the Mini PCI card from any attached cables.

    b   Release the Mini PCI card by spreading the metal securing tabs until the card pops up slightly.

    c   Lift the Mini PCI card out of its connector.

9   Align the new Mini PCI card with the connector at a 45-degree angle, and press the Mini PCI card into the connector.

10 Connect the antenna cables from the Mini PCI card to the antenna connectors on the computer.

NOTICE: The connectors are keyed for correct insertion; do not force the connections.

antenna connectors on card (2)

antenna cables (2)
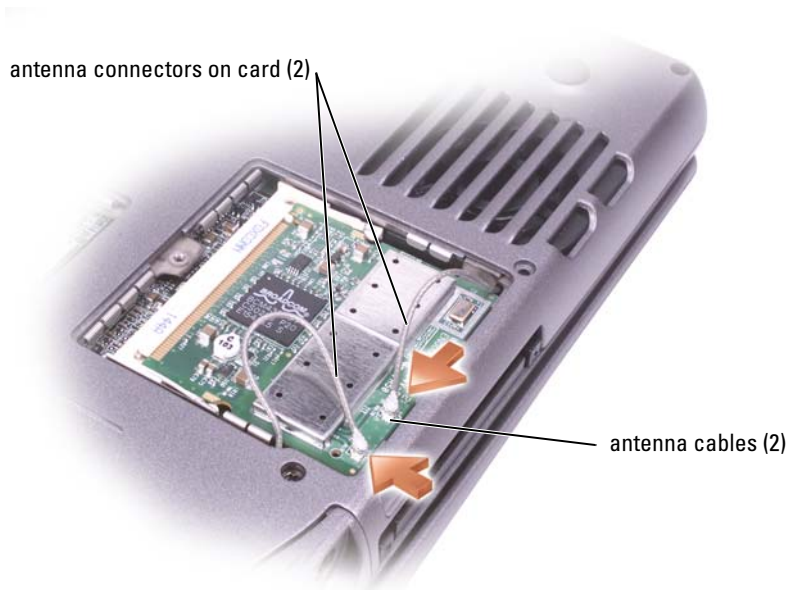
11 Lower the Mini PCI card toward the inner tabs to approximately a 20-degree angle.

12 Continue lowering the Mini PCI card until it snaps into the inner tabs of the connector.

13 Replace the cover.

Replacing the Hard Drive

⚠ **CAUTION: If you remove the hard drive from the computer when the drive is hot, *do not touch* the metal housing of the hard drive.**

⚠ **CAUTION: Before working inside your computer, read the safety instructions in the *Product Information Guide*.**

⊘ **NOTICE:** To prevent data loss, shut down your computer (see "Turning Off Your Computer" on page 27) before removing the hard drive. Do not remove the hard drive while the computer is on, in standby mode, or in hibernate mode.

⊘ **NOTICE:** Hard drives are extremely fragile; even a slight bump can damage the drive.

✎ **NOTE:** Dell does not guarantee compatibility or provide support for hard drives from sources other than Dell.

1 Ensure that the work surface is flat and clean to prevent scratching the computer cover.

2 Save and close any open files, exit any open programs, and shut down the computer (see "Turning Off Your Computer" on page 27).

3 If the computer is connected to a docking device (docked), undock it. See the documentation that came with your docking device for instructions.

4 Remove all installed batteries, and disconnect the AC adapter cable and any external devices from the computer. Wait 5 seconds before proceeding.

5 Ground yourself by touching a metal connector on the back of the computer, and continue to do so periodically during this procedure.

✎ **NOTE:** You need an operating system to install the Microsoft® Windows® operating system. You also need to reinstall the drivers and utilities on the new hard drive.

6 Turn the computer over. Use a small screwdriver to loosen the M2.5 x 5-mm screw.

M2.5 x 5-mm screw

7 Turn the computer over so that it is upright.

NOTICE: When the hard drive is not in the computer, store it in protective antistatic packaging. See your *Product Information Guide* for safety instructions.

8 Pull the hard drive cover out of the computer.

9 Remove the new drive from its packaging.

Save the original packaging for use when storing or shipping the hard drive.

NOTICE: You cannot replace your hard drive unless you open your display first.

10 Ensure that the display is open approximately 2.54 cm (1 in).

NOTICE: Use firm and even pressure to slide the drive into place. If you force the hard drive into place using excessive force, you may damage the hard drive connector.

11 Press the hard drive cover into the bay until it is fully seated in the bay.

12 Turn the computer over. Use a small screwdriver to tighten the screw.

13 Install the operating system for your computer.

14 Install the drivers and utilities for your computer (see "Drivers" on page 73).

Appendix

Specifications

Microprocessor	
Microprocessor type	Intel®
L1 cache	32 KB (internal)
L2 cache:	
1.3 GHz to 1.7 GHz	1MB
1.8 GHz and above	2MB
External bus frequency	400 MHz, source synchronous processor system bus

System Information	
Data bus width	64 bits
DRAM bus width	64 bits
Microprocessor address bus width	32 bits
Flash EPROM	1 MB
Graphics bus	64 bits (with 32 MB of video memory); 128 bits (with 64 MB of video memory)
PCI bus	32 bits

PC Card	
CardBus controller	OZ711EC1 CardBus controller
PC Card connector	supports one Type I or Type II card
Cards supported	3.3 V and 5 V
PC Card connector size	68 pins
Data width (maximum)	PCMCIA 16 bits; CardBus 32 bits

Smart Card

NOTE: Depending on your computer's configuration, the smart card slot may not be available.

Read/write capabilities	reads and writes to all ISO 7816 1/2/3/4 microprocessor cards (T=0, T=1)
Cards supported	3 V and 5 V
Program technology supported	Java cards
Interface speed	9600–115,200 BPS
EMV level	level 1 certified
WHQL certification	PC/SC
Compatibility	compatible within a PKI environment
Insert/eject cycles	certified for up to 100,000 cycles

Memory

Minimum requirement	266 MHz
Memory module connector	two user-accessible DDR SDRAM SODIMM 200pin connectors
Memory module capacities	128 MB, 256 MB, 512 MB, and 1 GB
Memory type	2.5 V DDR SDRAM PC2100 or PC2700, depending on your computer's configuration
Standard memory	128 MB
Maximum memory	2 GB

Ports and Connectors

Serial	9-pin connector; 16550C-compatible, 16-byte buffer connector
Parallel	25-pin connector; unidirectional, bidirectional, or ECP
Video	15-pin connector
Audio	microphone miniconnector, stereo headphones/speakers miniconnector
USB	two 4-pin USB 2.0–compliant connectors
Infrared sensor	sensor compatible with IrDA Standard 1.1 (Fast IR) and IrDA Standard 1.0 (Slow IR)

Ports and Connectors *(continued)*

S-video TV-out	7-pin mini-DIN connector (optional S-video to composite video adapter cable)
Mini PCI	Type IIIA Mini PCI card slot
Modem	RJ-11 port
Network adapter	RJ-45 port

Communications

Modem:	
Type	v.92 56K MDC
Controller	softmodem
Interface	internal AC'97 bus
Network adapter	10/100/1000 Ethernet LAN on system board
Wireless	internal Mini PCI Wi-Fi (802.11b and 802.11a) wireless support; internal card with Bluetooth® wireless technology

Video

Video type	64-bit hardware accelerated
Data bus	4X AGP
Video controller	ATI Mobility RADEON 9000
Video memory	32 MB or 64 MB
LCD interface	LVDS
TV support	NTSC or PAL in S-video and composite modes

Audio

NOTE: Depending on your computer's configuration, the microphone connector may not be available.

Audio type	compatible with Soundblaster and Microsoft® Windows® Sound System
Audio controller	Intel AC'97
Stereo conversion	20-bit (stereo digital-to-analog); 18-bit (stereo analog-to-digital)

Audio _(continued)_

Interfaces:	
Internal	AC'97
External	microphone miniconnector, stereo headphones/speakers miniconnector
Speaker	two 4-ohm speakers
Internal speaker amplifier	2-W channel into 4 ohms
Volume controls	keyboard shortcuts or program menus

Display

Type (active-matrix TFT)	XGA or SXGA+
Dimensions:	
Height	214.3 mm (8.4 inches)
Width	285.7 mm (11.3 inches)
Diagonal	357.1 mm (14.1 inches)
Maximum resolutions	1024 x 768 at 16.8 million colors (XGA); 1400 x 1050 at 16.8 million colors (SXGA+)
Response time (typical)	20-ms rise (maximum); 30-ms fall (maximum)
Refresh rate	60 Hz
Operating angle	0° (closed) to 180°
Viewing angles:	
Horizontal	±40°
Vertical	+10°/–30°
Pixel pitch	0.28 x 0.28 mm (XGA); 0.20 x 0.20 mm (SXGA+)
Power Consumption:	
Panel with backlight (typical)	6.5 W (XGA); 7.0 W (SXGA+)
Controls	brightness can be controlled through keyboard shortcuts

Keyboard

Number of keys	87 (U.S. and Canada); 88 (Europe); 91 (Japan)
Key travel	2.7 mm ± 0.3 mm (0.11 inch ± 0.016 inch)
Key spacing	19.05 mm ± 0.3 mm (0.75 inch ± 0.012 inch)
Layout	QWERTY/AZERTY/Kanji

Touch Pad

X/Y position resolution (graphics table mode)	240 cpi
Size:	
Width	64.88-mm (2.55-inch) sensor-active area
Height	48.88-mm (1.92-inch) rectangle

Battery

Type	6 cell, "smart" lithium ion (48 WHr); 4 cell, "smart" lithium ion (32 WHr)
Dimensions:	
Depth	77.5 mm (3.05 inches)
Height	19.1 mm (0.75 inch)
Width	123.4 mm (4.86 inches)
Weight	0.32 kg (0.7 lb) (6-cell battery); 0.23 kg (.5 lb) (4-cell battery)
Voltage	14.8 VDC
Charge time with computer off (approximate)	1 hour for 80% charge of battery
Operating time	approximately 3 to 4 hours (6-cell battery); approximately 2 to 3 hours (4-cell battery)
	NOTE: Battery operating time can be significantly reduced under certain power-intensive conditions. See page 29 for more information on battery life.
Life span (approximate)	300 discharge/charge cycles
Temperature range:	
Operating	0° to 35°C (32° to 95°F)
Storage	–40° to 65°C (–40° to 149°F)

AC Adapter	
Input voltage	90–264 VAC
Input current (maximum)	1.7 A
Input frequency	47–63 Hz
Output current	5.5 A (maximum at 4-second pulse); 4.5 A (continuous)
Output power	90 W or 65 W
Rated output voltage	19.5 VDC
Dimensions:	
Height	27.94 mm (1.1 inches)
Width	58.42 mm (2.3 inches)
Depth	133.85 mm (5.25 inches)
Weight (with cables)	0.4 kg (0.9 lb)
Temperature range:	
Operating	0° to 35°C (32° to 95°F)
Storage	–40° to 65°C (–40° to 149°F)

Physical	
Height	30.8 mm (1.2 inches)
Width	315 mm (12.4 inches)
Depth	259.4 mm (10.2 inches)
Weight:	
With travel module	2.26 kg (4.98 lb)
With CD drive	2.4 kg (5.3 lb)

Environmental	
Temperature range:	
Operating	0° to 35°C (32° to 95°F)
Storage	–40° to 65°C (–40° to 149°F)
Relative humidity (maximum):	
Operating	10% to 90% (noncondensing)
Storage	5% to 95% (noncondensing)

Environmental *(continued)*

Maximum vibration (using a random-vibration spectrum that simulates user environment):	
Operating	0.66 GRMS
Storage	1.30 GRMS
Maximum shock (measured with hard drive in head-parked position and a 2-ms half-sine pulse):	
Operating	122 G
Storage	163 G
Altitude (maximum):	
Operating	–15.2 to 3048 m (–50 to 10,000 ft)
Storage	–15.2 to 10,668 m (–50 to 35,000 ft)

Standard Settings

◯ **NOTICE:** Unless you are an expert computer user or are directed to do so by Dell technical support, do not change the settings for this program. Certain changes might make your computer work incorrectly.

Viewing the System Setup Screens

1 Turn on (or restart) your computer.

2 When the DELL™ logo appears, press <F2> immediately. If you wait too long and the Windows logo appears, continue to wait until you see the Windows desktop. Then shut down your computer (see "Turning Off Your Computer" on page 27) and try again.

System Setup Screens

✍ **NOTE:** To see information about a specific item on a system setup screen, highlight the item and refer to the **Help** area on the screen.

The system setup screens display the current setup information and settings for your computer. On each screen, the system setup options are listed at the left of the screen. To the right of each option is the setting or value for that option. You can change settings that appear as white type on the screen. Options or values that you cannot change (because they are determined by the computer) appear less bright.

The upper-right corner of the screen displays help information for the currently highlighted option; the lower-right corner displays information about the computer. System setup key functions are listed across the bottom of the screen.

The screens display such information as:

- System configuration
- Boot order
- Boot (start-up) configuration and docking-device configuration settings
- Basic device configuration settings
- Battery charge status
- System security and hard-drive password settings

Commonly Used Options

Certain options require that you reboot the computer for new settings to take effect.

Changing the Boot Sequence

The *boot sequence*, or *boot order*, tells the computer where to look to find the software needed to start the operating system. You can control the boot sequence using the **Boot Order** page of the system setup program. The **Boot Order** page displays a general list of the bootable devices that may be installed in your computer, including but not limited to the following:

- **Diskette Drive**
- **Modular bay HDD**
- **Internal HDD**
- **CD/DVD/CD-RW drive**

During the boot routine, the computer starts at the top of the list and scans each enabled device for the operating system start-up files. When the computer finds the files, it stops searching and starts the operating system.

To control the boot devices, select (highlight) a device by pressing the up-arrow or down-arrow key, and then enable or disable the device or change its order in the list.

- To enable or disable a device, highlight the item and press the spacebar. Enabled items appear as white and display a small triangle to their left; disabled items appear blue or dimmed without a triangle.
- To reorder a device in the list, highlight the device and then press <u> or <d> (not case-sensitive) to move the highlighted device up or down.

Boot sequence changes take effect as soon as you save the changes and exit the system setup program.

Performing a One-Time Boot

You can set a one-time-only boot sequence without entering the system setup program. (You can also use this procedure to boot the Dell Diagnostics on the diagnostics utility partition on your hard drive.)

1 Shut down the computer.

2 Connect the computer to an electrical outlet.

3 Turn on the computer. When the DELL logo appears, press <F12> immediately. If you wait too long and the Windows logo appears, continue to wait until you see the Windows desktop. Then shut down your computer and try again.

4 When the boot device list appears, highlight the device from which you want to boot and press <>Enter>.

The computer boots to the selected device.

The next time you reboot the computer, the normal boot order is restored.

Changing Printer Modes

Set the **Parallel Mode** option according to the type of printer or device connected to the parallel connector. To determine the correct mode to use, see the documentation that came with the device.

Setting **Parallel Mode** to **Disabled** disables the parallel port and the port's LPT address, freeing its interrupt for another device to use.

Changing COM Ports

Serial Port allows you to map the serial port COM address or disable the serial port and its address, freeing its interrupt for another device to use.

Enabling the Infrared Sensor

1 Enter the system setup program:

   a Turn on your computer.

   b Press <F2>when the DELL logo appears.

2 Press <Alt><p> until you locate **Infrared Data Port** under **Basic Device Configuration**.

3 Press the down-arrow key to highlight **Disabled** next to **Infrared Data Port**.

4 Press <Esc> to save the changes and exit the system setup program.

If you are prompted to restart your computer, click **Yes**.

5 Follow the instructions on the screen while the infrared sensor driver is being installed.

6 At the end of the installation process, click **Yes** to restart the computer.

After you enable the infrared sensor, you can use it to establish a link to an infrared device. To set up and use an infrared device, see the infrared device documentation and the Windows Help and Support Center.

Dell Technical Support Policy (U.S. Only)

Technician-assisted technical support requires the cooperation and participation of the customer in the troubleshooting process and provides for restoration of the operating system, application software, and hardware drivers to the original default configuration as shipped from Dell, as well as the verification of appropriate functionality of the computer and all Dell-installed hardware. In addition to this technician-assisted technical support, online technical support is available at **support.dell.com**. Additional technical support options may be available for purchase.

Dell provides limited technical support for the computer and any "Dell-installed" software and peripherals[1]. Support for third-party software and peripherals is provided by the original manufacturer, including those purchased and/or installed through Dell Software and Peripherals, Readyware, and Custom Factory Integration[2].

[1] Repair services are provided pursuant to the terms and conditions of your limited warranty and any optional support service contract purchased with the computer.

[2] All Dell-standard components included in a Custom Factory Integration (CFI) project are covered by the standard Dell limited warranty for your computer. However, Dell also extends a parts replacement program to cover all nonstandard, third-party hardware components integrated through CFI for the duration of the computer's service contract.

Definition of "Dell-Installed" Software and Peripherals

Dell-installed software includes the operating system and some of the application software that is preinstalled on the computer during the manufacturing process (Microsoft Office, Norton Antivirus, and so on).

Dell-installed peripherals include any internal expansion cards, or Dell-branded module bay or PC Card accessories. In addition, any Dell-branded monitors, keyboards, mice, speakers, microphones for telephonic modems, docking stations/port replicators, networking products, and all associated cabling are included.

Definition of "Third-Party" Software and Peripherals

Third-party software and peripherals include any peripheral, accessory, or application software sold by Dell not under the Dell brand (printers, scanners, cameras, games, and so on). Support for all third-party software and peripherals is provided by the original manufacturer of the product.

FCC Notices (U.S. Only)

Most Dell computers are classified by the Federal Communications Commission (FCC) as Class B digital devices. To determine which classification applies to your computer, examine all FCC registration labels located on the bottom, side, or back panel of your computer, on card-mounting brackets, and on the cards themselves. If any one of the labels carries a Class A rating, your entire computer is considered to be a Class A digital device. If *all* labels carry an FCC Class B rating as distinguished by either an FCC ID number or the FCC logo, (**FC**), your computer is considered to be a Class B digital device.

Once you have determined your computer's FCC classification, read the appropriate FCC notice. Note that FCC regulations provide that changes or modifications not expressly approved by Dell could void your authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Class A

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

Class B

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, you are 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 the 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/television technician for help.

FCC Identification Information

The following information is provided on the device or devices covered in this document in compliance with FCC regulations:

- Model number: PP05L
- Company name:

  Dell Inc.
  One Dell Way
  Round Rock, Texas 78682 USA
  512-338-4400

Macrovision Product Notice

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

Contacting Dell

To contact Dell electronically, you can access the following websites:

- **www.dell.com**
- **support.dell.com** (technical support)
- **premiersupport.dell.com** (technical support for educational, government, healthcare, and medium/large business customers, including Premier, Platinum, and Gold customers)

For specific web addresses for your country, find the appropriate country section in the table below.

NOTE: Toll-free numbers are for use within the country for which they are listed.

NOTE: In certain countries, technical support specific to Dell Inspiron™ XPS computers is available at a separate telephone number listed for participating countries. If you do not see a telephone number listed that is specific for Inspiron XPS computers, you may contact Dell through the technical support number listed and your call will be routed appropriately.

When you need to contact Dell, use the electronic addresses, telephone numbers, and codes provided in the following table. If you need assistance in determining which codes to use, contact a local or an international operator.

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Anguilla	General Support	toll-free: 800-335-0031
Antigua and Barbuda	General Support	1-800-805-5924
Argentina (Buenos Aires) International Access Code: 00 Country Code: 54 City Code: 11	Website: www.dell.com.ar	
	E-mail: us_latin_services@dell.com	
	E-mail for desktop and portable computers: la-techsupport@dell.com	
	E-mail for servers and EMC® storage products: la_enterprise@dell.com	
	Customer Care	toll-free: 0-800-444-0730
	Tech Support	toll-free: 0-800-444-0733
	Tech Support Services	toll-free: 0-800-444-0724
	Sales	0-810-444-3355
Aruba	General Support	toll-free: 800-1578
Australia (Sydney) International Access Code: 0011 Country Code: 61 City Code: 2	E-mail (Australia): au_tech_support@dell.com	
	E-mail (New Zealand): nz_tech_support@dell.com	
	Home and Small Business	1-300-655-533
	Government and Business	toll-free: 1-800-633-559
	Preferred Accounts Division (PAD)	toll-free: 1-800-060-889
	Customer Care	toll-free: 1-800-819-339
	Technical Support (portables and desktops)	toll-free: 1-300-655-533
	Technical Support (servers and workstations)	toll-free: 1-800-733-314
	Corporate Sales	toll-free: 1-800-808-385
	Transaction Sales	toll-free: 1-800-808-312
	Fax	toll-free: 1-800-818-341

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Austria (Vienna)	Website: **support.euro.dell.com**	
International Access Code: **900**	E-mail: tech_support_central_europe@dell.com	
Country Code: **43**	Home/Small Business Sales	0820 240 530 00
City Code: **1**	Home/Small Business Fax	0820 240 530 49
	Home/Small Business Customer Care	0820 240 530 14
	Preferred Accounts/Corporate Customer Care	0820 240 530 16
	Home/Small Business Technical Support	0820 240 530 14
	Preferred Accounts/Corporate Technical Support	0660 8779
	Switchboard	0820 240 530 00
Bahamas	General Support	toll-free: 1-866-278-6818
Barbados	General Support	1-800-534-3066
Belgium (Brussels)	Website: **support.euro.dell.com**	
International Access Code: **00**	E-mail for French-speaking Customers: **support.euro.dell.com/be/fr/emaildell/**	
Country Code: **32**	Technical Support for Inspiron XPS computers only	02 481 92 96
City Code: **2**	Technical Support for all other Dell computers	02 481 92 88
	Technical Support Fax	02 481 92 95
	Customer Care	02 713 15 .65
	Corporate Sales	02 481 91 00
	Fax	02 481 92 99
	Switchboard	02 481 91 00
Bermuda	General Support	1-800-342-0671
Bolivia	General Support	toll-free: 800-10-0238
Brazil	Website: **www.dell.com/br**	
International Access Code: **00**	Customer Support, Technical Support	0800 90 3355
Country Code: **55**	Technical Support Fax	51 481 5470
City Code: **51**	Customer Care Fax	51 481 5480
	Sales	0800 90 3390
British Virgin Islands	General Support	toll-free: 1-866-278-6820

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Brunei Country Code: **673**	Customer Technical Support (Penang, Malaysia)	604 633 4966
	Customer Service (Penang, Malaysia)	604 633 4949
	Transaction Sales (Penang, Malaysia)	604 633 4955
Canada (North York, Ontario) International Access Code: **011**	Online Order Status: **www.dell.ca/ostatus**	
	AutoTech (automated technical support)	toll-free: 1-800-247-9362
	Customer Care (Home Sales/Small Business)	toll-free: 1-800-847-4096
	Customer Care (med./large business, government)	toll-free: 1-800-326-9463
	Technical Support (Home Sales/Small Business)	toll-free: 1-800-847-4096
	Technical Support (med./large bus., government)	toll-free: 1-800-387-5757
	Technical Support (printers, projectors, televisions, handhelds, digital jukebox, and wireless)	1-877-335-5767
	Sales (Home Sales/Small Business)	toll-free: 1-800-387-5752
	Sales (med./large bus., government)	toll-free: 1-800-387-5755
	Spare Parts Sales & Extended Service Sales	1 866 440 3355
Cayman Islands	General Support	1-800-805-7541
Chile (Santiago) Country Code: **56** City Code: **2**	Sales, Customer Support, and Technical Support	toll-free: 1230-020-4823

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
China (Xiamen)	Technical Support website: **support.dell.com.cn**	
Country Code: 86	Technical Support E-mail: cn_support@dell.com	
City Code: **592**	Customer Care E-mail: customer_cn@dell.com	
	Technical Support Fax	592 818 1350
	Technical Support (Dell™ Dimension™ and Inspiron)	toll-free: 800 858 2969
	Technical Support (OptiPlex™, Latitude™, and Dell Precision™)	toll-free: 800 858 0950
	Technical Support (servers and storage)	toll-free: 800 858 0960
	Technical Support (projectors, PDAs, switches, routers, and so on)	toll-free: 800 858 2920
	Technical Support (printers)	toll-free: 800 858 2311
	Customer Care	toll-free: 800 858 2060
	Customer Care Fax	592 818 1308
	Home and Small Business	toll-free: 800 858 2222
	Preferred Accounts Division	toll-free: 800 858 2557
	Large Corporate Accounts GCP	toll-free: 800 858 2055
	Large Corporate Accounts Key Accounts	toll-free: 800 858 2628
	Large Corporate Accounts North	toll-free: 800 858 2999
	Large Corporate Accounts North Government and Education	toll-free: 800 858 2955
	Large Corporate Accounts East	toll-free: 800 858 2020
	Large Corporate Accounts East Government and Education	toll-free: 800 858 2669
	Large Corporate Accounts Queue Team	toll-free: 800 858 2572
	Large Corporate Accounts South	toll-free: 800 858 2355
	Large Corporate Accounts West	toll-free: 800 858 2811
	Large Corporate Accounts Spare Parts	toll-free: 800 858 2621
Colombia	General Support	980-9-15-3978
Costa Rica	General Support	0800-012-0435

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Czech Republic (Prague)	Website: **support.euro.dell.com**	
International Access Code: **00**	E-mail: czech_dell@dell.com	
Country Code: **420**	Technical Support	22537 2727
	Customer Care	22537 2707
	Fax	22537 2714
	Tech Fax	22537 2728
	Switchboard	22537 2711
Denmark (Copenhagen)	Website: **support.euro.dell.com**	
International Access Code: **00**	E-mail: **support.euro.dell.com/dk/da/emaildell/**	
Country Code: **45**	Technical Support for Inspiron XPS computers only	7010 0074
	Technical Support for all other Dell computers	7023 0182
	Customer Care (Relational)	7023 0184
	Home/Small Business Customer Care	3287 5505
	Switchboard (Relational)	3287 1200
	Switchboard Fax (Relational)	3287 1201
	Switchboard (Home/Small Business)	3287 5000
	Switchboard Fax (Home/Small Business)	3287 5001
Dominica	General Support	toll-free: 1-866-278-6821
Dominican Republic	General Support	1-800-148-0530
Ecuador	General Support	toll-free: 999-119
El Salvador	General Support	01-899-753-0777
Finland (Helsinki)	Website: **support.euro.dell.com**	
International Access Code: **990**	E-mail: **support.euro.dell.com/fi/fi/emaildell/**	
Country Code: **358**	Technical Support	09 253 313 60
City Code: **9**	Customer Care	09 253 313 38
	Fax	09 253 313 99
	Switchboard	09 253 313 00

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
France (Paris) (Montpellier)	Website: support.euro.dell.com	
International Access Code: 00	E-mail: support.euro.dell.com/fr/fr/emaildell/	
Country Code: 33	**Home and Small Business**	
City Codes: (1) (4)	Technical Support for Inspiron XPS computers only	0825 387 129
	Technical Support for all other Dell computers	0825 387 270
	Customer Care	0825 823 833
	Switchboard	0825 004 700
	Switchboard (calls from outside of France)	04 99 75 40 00
	Sales	0825 004 700
	Fax	0825 004 701
	Fax (calls from outside of France)	04 99 75 40 01
	Corporate	
	Technical Support	0825 004 719
	Customer Care	0825 338 339
	Switchboard	01 55 94 71 00
	Sales	01 55 94 71 00
	Fax	01 55 94 71 01
Germany (Langen)	Website: support.euro.dell.com	
International Access Code: 00	E-mail: tech_support_central_europe@dell.com	
Country Code: 49	Technical Support for Inspiron XPS computers only	06103 766-7222
City Code: 6103	Technical Support for all other Dell computers	06103 766-7200
	Home/Small Business Customer Care	0180-5-224400
	Global Segment Customer Care	06103 766-9570
	Preferred Accounts Customer Care	06103 766-9420
	Large Accounts Customer Care	06103 766-9560
	Public Accounts Customer Care	06103 766-9555
	Switchboard	06103 766-7000

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Greece	Website: **support.euro.dell.com**	
International Access Code: **00**	E-mail: **support.euro.dell.com/gr/en/emaildell/**	
Country Code: **30**	Technical Support	00800-44 14 95 18
	Gold Service Technical Support	00800-44 14 00 83
	Switchboard	2108129810
	Gold Service Switchboard	2108129811
	Sales	2108129800
	Fax	2108129812
Grenada	General Support	toll-free: 1-866-540-3355
Guatemala	General Support	1-800-999-0136
Guyana	General Support	toll-free: 1-877-270-4609
Hong Kong	Website: **support.ap.dell.com**	
International Access Code: **001**	Technical Support E-mail: apsupport@dell.com	
Country Code: **852**	Technical Support (Dimension and Inspiron)	2969 3188
	Technical Support (OptiPlex, Latitude, and Dell Precision)	2969 3191
	Technical Support (PowerApp™, PowerEdge™, PowerConnect™, and PowerVault™)	2969 3196
	Customer Care	3416 0910
	Large Corporate Accounts	3416 0907
	Global Customer Programs	3416 0908
	Medium Business Division	3416 0912
	Home and Small Business Division	2969 3105
India	Technical Support	1600 33 8045
	Sales (Large Corporate Accounts)	1600 33 8044
	Sales (Home and Small Business)	1600 33 8046

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Ireland (Cherrywood)	Website: **support.euro.dell.com**	
International Access Code: **16**	E-mail: dell_direct_support@dell.com	
Country Code: **353**	Technical Support for Inspiron XPS computers only	1850 200 722
City Code: **1**	Technical Support for all other Dell computers	1850 543 543
	U.K. Technical Support (dial within U.K. only)	0870 908 0800
	Home User Customer Care	01 204 4014
	Small Business Customer Care	01 204 4014
	U.K. Customer Care (dial within U.K. only)	0870 906 0010
	Corporate Customer Care	1850 200 982
	Corporate Customer Care (dial within U.K. only)	0870 907 4499
	Ireland Sales	01 204 4444
	U.K. Sales (dial within U.K. only)	0870 907 4000
	Fax/Sales Fax	01 204 0103
	Switchboard	01 204 4444
Italy (Milan)	Website: **support.euro.dell.com**	
International Access Code: **00**	E-mail: **support.euro.dell.com/it/it/emaildell/**	
Country Code: **39**	**Home and Small Business**	
City Code: **02**	Technical Support	02 577 826 90
	Customer Care	02 696 821 14
	Fax	02 696 821 13
	Switchboard	02 696 821 12
	Corporate	
	Technical Support	02 577 826 90
	Customer Care	02 577 825 55
	Fax	02 575 035 30
	Switchboard	02 577 821
Jamaica	General Support (dial from within Jamaica only)	1-800-682-3639

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Japan (Kawasaki)	Website: **support.jp.dell.com**	
International Access Code: **001**	Technical Support (servers)	toll-free: 0120-198-498
Country Code: **81**	Technical Support outside of Japan (servers)	81-44-556-4162
City Code: **44**	Technical Support (Dimension and Inspiron)	toll-free: 0120-198-226
	Technical Support outside of Japan (Dimension and Inspiron)	81-44-520-1435
	Technical Support (Dell Precision, OptiPlex, and Latitude)	toll-free:0120-198-433
	Technical Support outside of Japan (Dell Precision, OptiPlex, and Latitude)	81-44-556-3894
	Technical Support (PDAs, projectors, printers, routers)	toll-free: 0120-981-690
	Technical Support outside of Japan (PDAs, projectors, printers, routers)	81-44-556-3468
	Faxbox Service	044-556-3490
	24-Hour Automated Order Service	044-556-3801
	Customer Care	044-556-4240
	Business Sales Division (up to 400 employees)	044-556-1465
	Preferred Accounts Division Sales (over 400 employees)	044-556-3433
	Large Corporate Accounts Sales (over 3500 employees)	044-556-3430
	Public Sales (government agencies, educational institutions, and medical institutions)	044-556-1469
	Global Segment Japan	044-556-3469
	Individual User	044-556-1760
	Switchboard	044-556-4300
Korea (Seoul)	Technical Support	toll-free: 080-200-3800
International Access Code: **001**	Sales	toll-free: 080-200-3600
Country Code: **82**	Customer Service (Penang, Malaysia)	604 633 4949
City Code: **2**	Fax	2194-6202
	Switchboard	2194-6000
	Technical Support (Electronics and Accessories)	toll-free: 080-200-3801

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Latin America	Customer Technical Support (Austin, Texas, U.S.A.)	512 728-4093
	Customer Service (Austin, Texas, U.S.A.)	512 728-3619
	Fax (Technical Support and Customer Service) (Austin, Texas, U.S.A.)	512 728-3883
	Sales (Austin, Texas, U.S.A.)	512 728-4397
	SalesFax (Austin, Texas, U.S.A.)	512 728-4600
		or 512 728-3772
Luxembourg	Website: support.euro.dell.com	
International Access Code: 00	E-mail: tech_be@dell.com	
Country Code: 352	Technical Support (Brussels, Belgium)	3420808075
	Home/Small Business Sales (Brussels, Belgium)	toll-free: 080016884
	Corporate Sales (Brussels, Belgium)	02 481 91 00
	Customer Care (Brussels, Belgium)	02 481 91 19
	Fax (Brussels, Belgium)	02 481 92 99
	Switchboard (Brussels, Belgium)	02 481 91 00
Macao	Technical Support	toll-free: 0800 105
Country Code: 853	Customer Service (Xiamen, China)	34 160 910
	Transaction Sales (Xiamen, China)	29 693 115
Malaysia (Penang)	Website: support.ap.dell.com	
International Access Code: 00	Technical Support (Dell Precision, OptiPlex, and Latitude)	toll-free: 1 800 88 0193
Country Code: 60		
City Code: 4	Technical Support (Dimension, Inspiron, and Electronics and Accessories)	toll-free: 1 800 88 1306
	Technical Support (PowerApp, PowerEdge, PowerConnect, and PowerVault)	toll-free: 1800 88 1386
	Customer Service (Penang, Malaysia)	04 633 4949
	Transaction Sales	toll-free: 1 800 888 202
	Corporate Sales	toll-free: 1 800 888 213

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Mexico	Customer Technical Support	001-877-384-8979
International Access Code: **00**		or 001-877-269-3383
Country Code: **52**	Sales	50-81-8800
		or 01-800-888-3355
	Customer Service	001-877-384-8979
		or 001-877-269-3383
	Main	50-81-8800
		or 01-800-888-3355
Montserrat	General Support	toll-free: 1-866-278-6822
Netherlands Antilles	General Support	001-800-882-1519
Netherlands (Amsterdam)	Website: **support.euro.dell.com**	
International Access Code: **00**	Technical Support for Inspiron XPS computers only	020 674 45 94
Country Code: **31**	Technical Support for all other Dell computers	020 674 45 00
City Code: **20**	Technical Support Fax	020 674 47 66
	Home/Small Business Customer Care	020 674 42 00
	Relational Customer Care	020 674 4325
	Home/Small Business Sales	020 674 55 00
	Relational Sales	020 674 50 00
	Home/Small Business Sales Fax	020 674 47 75
	Relational Sales Fax	020 674 47 50
	Switchboard	020 674 50 00
	Switchboard Fax	020 674 47 50
New Zealand	E-mail (New Zealand): nz_tech_support@dell.com	
International Access Code: **00**	E-mail (Australia): au_tech_support@dell.com	
Country Code: **64**	Technical Support (for desktop and portable computers)	toll-free: 0800 446 255
	Technical Support (for servers and workstations)	toll-free: 0800 443 563
	Home and Small Business	0800 446 255
	Government and Business	0800 444 617
	Sales	0800 441 567
	Fax	0800 441 566

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Nicaragua	General Support	001-800-220-1006
Norway (Lysaker)	Website: support.euro.dell.com	
International Access Code: 00	E-mail: support.euro.dell.com/no/no/emaildell/	
Country Code: 47	Technical Support	671 16882
	Relational Customer Care	671 17575
	Home/Small Business Customer Care	23162298
	Switchboard	671 16800
	Fax Switchboard	671 16865
Panama	General Support	001-800-507-0962
Peru	General Support	0800-50-669
Poland (Warsaw)	Website: support.euro.dell.com	
International Access Code: 011	E-mail: pl_support_tech@dell.com	
Country Code: 48	Customer Service Phone	57 95 700
City Code: 22	Customer Care	57 95 999
	Sales	57 95 999
	Customer Service Fax	57 95 806
	Reception Desk Fax	57 95 998
	Switchboard	57 95 999
Portugal	Website: support.euro.dell.com	
International Access Code: 00	E-mail: support.euro.dell.com/pt/en/emaildell/	
Country Code: 351	Technical Support	707200149
	Customer Care	800 300 413
	Sales	800 300 410 or 800 300 411 or 800 300 412 or 21 422 07 10
	Fax	21 424 01 12
Puerto Rico	General Support	1-800-805-7545
St. Kitts and Nevis	General Support	toll-free: 1-877-441-4731
St. Lucia	General Support	1-800-882-1521
St. Vincent and the Grenadines	General Support	toll-free: 1-877-270-4609

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Singapore (Singapore) International Access Code: **005** Country Code: **65**	Website: **support.ap.dell.com**	
	Technical Support (Dimension, Inspiron, and Electronics and Accessories)	toll-free: 1800 394 7430
	Technical Support (OptiPlex, Latitude, and Dell Precision)	toll-free: 1800 394 7488
	Technical Support (PowerApp, PowerEdge, PowerConnect, and PowerVault)	toll-free: 1800 394 7478
	Customer Service (Penang, Malaysia)	604 633 4949
	Transaction Sales	toll-free: 1 800 394 7412
	Corporate Sales	toll-free: 1 800 394 7419
Slovakia (Prague) International Access Code: **00** Country Code: **421**	Website: **support.euro.dell.com**	
	E-mail: czech_dell@dell.com	
	Technical Support	02 5441 5727
	Customer Care	420 22537 2707
	Fax	02 5441 8328
	Tech Fax	02 5441 8328
	Switchboard (Sales)	02 5441 7585
South Africa (Johannesburg) International Access Code: **09/091** Country Code: **27** City Code: **11**	Website: **support.euro.dell.com**	
	E-mail: dell_za_support@dell.com	
	Gold Queue	011 709 7713
	Technical Support	011 709 7710
	Customer Care	011 709 7707
	Sales	011 709 7700
	Fax	011 706 0495
	Switchboard	011 709 7700
Southeast Asian and Pacific Countries	Customer Technical Support, Customer Service, and Sales (Penang, Malaysia)	604 633 4810

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Spain (Madrid)	Website: **support.euro.dell.com**	
International Access Code: **00**	E-mail: **support.euro.dell.com/es/es/emaildell/**	
Country Code: **34**	**Home and Small Business**	
City Code: **91**	Technical Support	902 100 130
	Customer Care	902 118 540
	Sales	902 118 541
	Switchboard	902 118 541
	Fax	902 118 539
	Corporate	
	Technical Support	902 100 130
	Customer Care	902 115 236
	Switchboard	91 722 92 00
	Fax	91 722 95 83
Sweden (Upplands Vasby)	Website: **support.euro.dell.com**	
International Access Code: **00**	E-mail: **support.euro.dell.com/se/sv/emaildell/**	
Country Code: **46**	Technical Support	08 590 05 199
City Code: **8**	Relational Customer Care	08 590 05 642
	Home/Small Business Customer Care	08 587 70 527
	Employee Purchase Program (EPP) Support	20 140 14 44
	Technical Support Fax	08 590 05 594
	Sales	08 590 05 185
Switzerland (Geneva)	Website: **support.euro.dell.com**	
International Access Code: **00**	E-mail: Tech_support_central_Europe@dell.com	
Country Code: **41** City Code: **22**	E-mail for French-speaking HSB and Corporate Customers: **support.euro.dell.com/ch/fr/emaildell/**	
	Technical Support (Home and Small Business)	0844 811 411
	Technical Support (Corporate)	0844 822 844
	Customer Care (Home and Small Business)	0848 802 202
	Customer Care (Corporate)	0848 821 721
	Fax	022 799 01 90
	Switchboard	022 799 01 01

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Taiwan	Website: **support.ap.dell.com**	
International Access Code: **002**	E-mail: ap_support@dell.com	
Country Code: **886**	Technical Support (OptiPlex, Latitude, Inspiron, Dimension, and Electronics and Accessories)	toll-free: 00801 86 1011
	Technical Support (PowerApp, PowerEdge, PowerConnect, and PowerVault)	toll-free: 00801 60 1256
	Transaction Sales	toll-free: 00801 65 1228
	Corporate Sales	toll-free: 00801 651 227
Thailand	Website: **support.ap.dell.com**	
International Access Code: **001**	Technical Support (OptiPlex, Latitude, and Dell Precision)	toll-free: 1800 0060 07
Country Code: **66**	Technical Support (PowerApp, PowerEdge, PowerConnect, and PowerVault)	toll-free: 1800 0600 09
	Customer Service (Penang, Malaysia)	604 633 4949
	Corporate Sales	toll-free: 1800 006 009
	Transaction Sales	toll-free: 1800 006 006
Trinidad/Tobago	General Support	1-800-805-8035
Turks and Caicos Islands	General Support	toll-free: 1-866-540-3355

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
U.K. (Bracknell)	Website: **support.euro.dell.com**	
International Access Code: **00**	Customer Care website: **support.euro.dell.com/uk/en/ECare/Form/Home.asp**	
Country Code: **44**		
City Code: **1344**	E-mail: dell_direct_support@dell.com	
	Technical Support (Corporate/Preferred Accounts/PAD [1000+ employees])	0870 908 0500
	Technical Support (direct and general)	0870 908 0800
	Global Accounts Customer Care	01344 373 186
	Home and Small Business Customer Care	0870 906 0010
	Corporate Customer Care	01344 373 185
	Preferred Accounts (500–5000 employees) Customer Care	0870 906 0010
	Central Government Customer Care	01344 373 193
	Local Government & Education Customer Care	01344 373 199
	Health Customer Care	01344 373 194
	Home and Small Business Sales	0870 907 4000
	Corporate/Public Sector Sales	01344 860 456
	Home and Small Business Fax	0870 907 4006
Uruguay	General Support	toll-free: 000-413-598-2521

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
U.S.A. (Austin, Texas)	Automated Order-Status Service	toll-free: 1-800-433-9014
International Access Code: **011**	AutoTech (portable and desktop computers)	toll-free: 1-800-247-9362
Country Code: **1**	**Consumer** (Home and Home Office)	
	Technical Support	toll-free: 1-800-624-9896
	Customer Service	toll-free: 1-800-624-9897
	DellNet™ Service and Support	toll-free: 1-877-Dellnet
		(1-877-335-5638)
	Employee Purchase Program (EPP) Customers	toll-free: 1-800-695-8133
	Financial Services website: **www.dellfinancialservices.com**	
	Financial Services (lease/loans)	toll-free: 1-877-577-3355
	Financial Services (Dell Preferred Accounts [DPA])	toll-free: 1-800-283-2210
	Business	
	Customer Service and Technical Support	toll-free: 1-800-822-8965
	Employee Purchase Program (EPP) Customers	toll-free: 1-800-695-8133
	Printers and Projectors Technical Support	toll-free: 1-877-459-7298
	Public (government, education, and healthcare)	
	Customer Service and Technical Support	toll-free: 1-800-456-3355
	Employee Purchase Program (EPP) Customers	toll-free: 1-800-234-1490
	Dell Sales	toll-free: 1-800-289-3355
		or toll-free: 1-800-879-3355
	Dell Outlet Store (Dell refurbished computers)	toll-free: 1-888-798-7561
	Software and Peripherals Sales	toll-free: 1-800-671-3355
	Spare Parts Sales	toll-free: 1-800-357-3355
	Extended Service and Warranty Sales	toll-free: 1-800-247-4618
	Fax	toll-free: 1-800-727-8320
	Dell Services for the Deaf, Hard-of-Hearing, or Speech-Impaired	toll-free: 1-877-DELLTTY
		(1-877-335-5889)
U.S. Virgin Islands	General Support	1-877-673-3355
Venezuela	General Support	8001-3605

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