



# **Getting Started**

## HP Compaq Notebook PC

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This guide explains how to set up your hardware and software, and begin using the computer in Windows®.

Enhanced for Accessibility

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Getting Started  
HP Compaq Notebook PC  
First Edition: January 2007  
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# 1

## First-time setup

### Identify required hardware

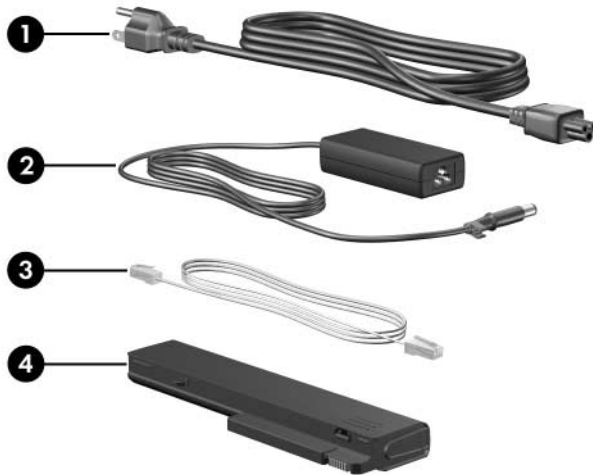
To set up the computer for the first time, you will need the computer, AC adapter, power cord, and the primary battery.

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Components included with the computer may vary by region and by model.

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**Component**

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❶ Power cord	❸ Modem cable (optional for setup)
❷ HP Smart AC Adapter	❹ Primary battery

---



Use only the included AC adapter or one approved for this computer.

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Unless you use dial-up networking, the modem cable is optional for setup.

---


# Set up the computer

To set up the computer, you will

1. Insert the battery into the computer.
2. Connect the computer to external power.

 The battery begins to charge.

3. Turn on the computer.
4. Set up the software.
5. Create recovery discs (recommended).

 Refer to Appendix C, “[Backup and recovery](#),” for instructions.



**CAUTION:** To prevent file corruption and to ensure that the correct drivers are installed:

- Do not set up the computer for the first time while the computer is docked in an optional docking device.
  - During the hardware and software setup procedures:
    - Do not unplug the computer from external power.
    - Do not shut down the computer or initiate Sleep or Hibernation.
-

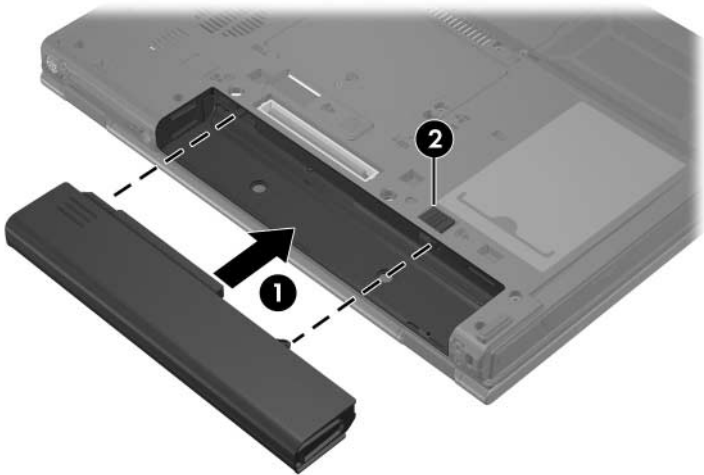


## Step 1: Insert the battery

To insert a primary battery:

1. Turn the computer upside down on a flat surface, with the battery bay toward you.
2. Slide the battery **1** into the battery bay until it is seated.

The battery release latch **2** automatically locks the battery into place.



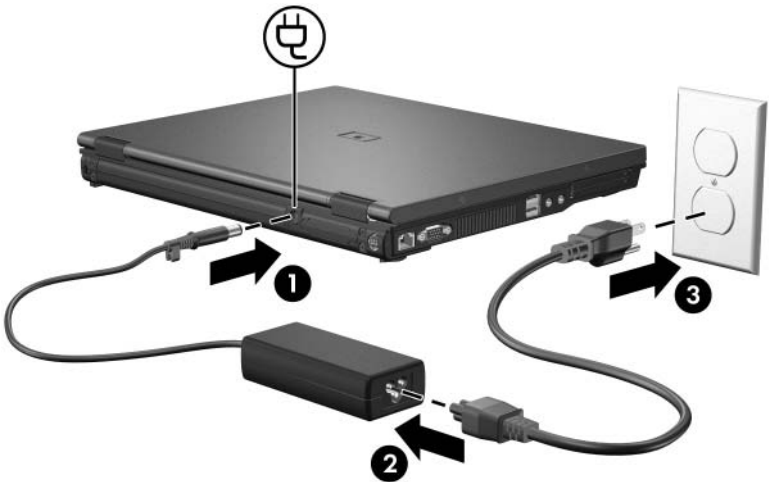
## Step 2: Connect the computer to external power



Power cords and AC outlets vary in appearance by region and country.

To connect the computer to external AC power:

1. Plug the AC adapter into the power connector **1** on the computer.
2. Plug the power cord into the AC adapter **2**.
3. Plug the other end of the power cord into an AC outlet **3**.



When the computer receives AC power, the battery begins to charge and the battery light (on the front of the computer) is turned on. When the battery is fully charged, the battery light is turned off.

Leave the computer connected to external power until the battery is fully charged and the battery light is turned off.

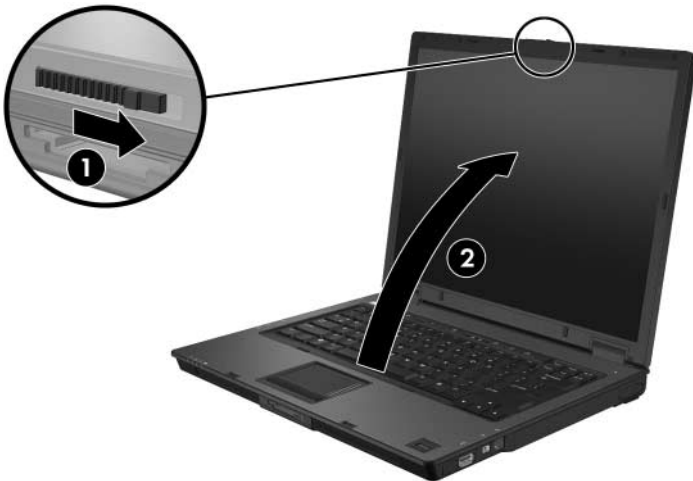


A partially charged new battery can run the computer after software setup is complete, but battery charge displays will not be accurate until the new battery has been fully charged.

### Step 3: Turn on the computer

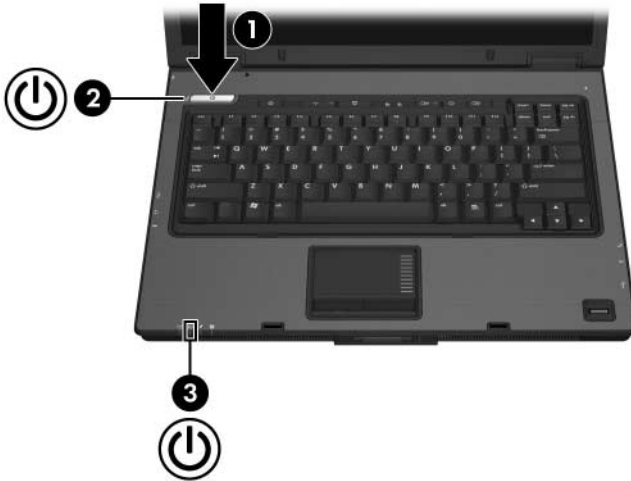
To open the computer:

1. Slide the display release latch **1** to the right to release the display.
2. Raise the display **2**.



3. Press the power button ❶.

The power light next to the power button ❷ and the power light on the front of the computer ❸ are turned on, and you are prompted to begin software setup.



## Step 4: Set up the software

After the computer is turned on, it will go through a brief software setup. Follow the on-screen instructions to set up the software. Note the following:

- After you respond to the setup prompt, you must complete the entire setup process without interruption. Setup time varies.
- During software setup, the computer may pause periodically for several minutes. These normal pauses are indicated by an hourglass icon.



**CAUTION:** If you are prompted to select an operating system language, choose carefully. On some models, the languages that you do not choose are deleted from the system and cannot be restored during software setup.

---



To register the operating system and the computer, you must be connected to the Internet. For more information about connecting to the Internet, refer to [Appendix B](#) in this guide. If you do not register during software setup, you can do so at any time after software setup is complete.

---

## Step 5: Create recovery discs (recommended)

After setting up the computer for the first time, you can create a set of recovery discs of your full factory image using HP Backup and Recovery Manager. The recovery discs are used to start up (boot) the computer and restore the operating system and software applications to factory settings in case of system failure or instability.

Refer to Appendix C, “[Backup and recovery](#),” for detailed instructions.

# 2


## Next steps

### Install additional hardware and software

#### Identify and install hardware

To see a list of hardware installed on the computer:

1. Select **Start > Computer > System properties**.
2. In the left pane, click **Device Manager**.

 Windows includes the User Account Control feature to improve the security of your computer. You may be prompted for your permission or password for tasks such as installing applications, running utilities, or changing Windows settings. Refer to Windows online Help for more information.

You can also add hardware or modify your device configurations using Device Manager.

To install additional hardware, such as an optional printer, follow the instructions provided by the hardware manufacturer to install the device and any required drivers.

## Locate and install software

The computer includes software that may be

- **Preinstalled on your hard drive.** To see a list of the ready-to-use software preinstalled on the computer:
  1. Click **Start > All Programs**.
  2. Double-click the program you want to open.
- **Provided on a CD or DVD.** To install a software program from a disc:
  1. Insert the disc into your optical drive.
  2. When the installation wizard opens, follow the on-screen instructions.
  3. Restart the computer if prompted to do so.
- **Preloaded software.** This is software provided on the hard drive, but not ready to use. To locate or install preloaded software or drivers:
  1. Select **Start > All Programs > Software Setup**.
  2. Follow the on-screen instructions and select the check box next to the software program or driver you want to install.



For details about using software included with the computer, refer to the software manufacturer's instructions, which may be provided on disc, as online Help files, or on the manufacturer's Web site.

---

## Protect the computer

The information in this section is designed to protect the computer from damage caused by a virus, a security breach, a power surge, or unsafe operation.

### Protect the computer from viruses

When you use the computer for e-mail, network, or Internet access, you expose it to computer viruses that can disable the operating system, applications, or utilities or cause them to function abnormally.

Antivirus software can detect most viruses, destroy them, and in most cases, repair any damage they have caused. To provide ongoing protection against newly discovered viruses, antivirus software must be kept up to date.

Norton Internet Security is preinstalled on the computer. For information about using the Norton Internet Security software, click **Start > All Programs > Norton Internet Security**.

For more information about computer viruses, type **viruses** in the Search field in Help and Support.

### Protect your system files

The HP Backup and Recovery Manager provides several ways to back up the system and to recover optimal system functionality. Refer to Appendix C, “[Backup and recovery](#),” for additional information.



## **Protect your privacy**

When you use the computer for e-mail, network, or Internet access, it is possible for unauthorized persons to obtain information about you or the computer.

To optimize the privacy protection features included with the computer:

- Keep the operating system and software updated. Many software applications contain security enhancements.
- Use a firewall. A firewall is software that monitors incoming traffic on the computer. Some firewalls also monitor outgoing traffic.

## **Protect the computer from power surges**

To protect the computer from the power surges that may be caused by an uncertain power supply or an electrical storm:

- Plug the computer power cord into an optional, high-quality surge protector. Surge protectors are available from most computer or electronics retailers.
- During an electrical storm, either run the computer on battery power or shut down the computer and unplug the power cord.
- If applicable to your location, provide surge protection on the modem cable that connects the modem to a telephone line. Telephone line surge protectors are available from most computer or electronic retailers in some regions.

## Use the computer safely

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**WARNING:** To reduce the risk of electric shock or damage to your equipment:

- Plug the power cord into an AC outlet that is easily accessible at all times.
  - Disconnect power from the computer by unplugging the power cord from the AC outlet (not by unplugging the power cord from the computer).
  - If provided with a 3-pin attachment plug on your power cord, plug the cord into a grounded (earthed) 3-pin outlet. Do not disable the power cord grounding pin, for example, by attaching a 2-pin adapter. The grounding pin is an important safety feature.
- 



**WARNING:** To reduce the risk of serious injury, read the *Safety and Comfort Guide*. It describes proper workstation setup and proper posture, health, and work habits for computer users. The *Safety and Comfort Guide* also provides important electrical and mechanical safety information. This guide is available on the Web at <http://www.hp.com/ergo> and in Help and Support. To access this document, select **Start > Help and Support > User Guides**.

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**WARNING:** To avoid potential discomfort or burns, do not block the air vents or place the computer on your lap for extended periods. Also, do not allow the AC adapter to contact the skin for extended periods during operation. The computer is designed to run demanding applications at full power. As a result of increased power consumption, it is normal for the computer and the AC adapter to feel warm or hot when used continuously. The computer and the AC adapter comply with the user-accessible surface temperature limits defined by the International Standard for Safety of Information Technology Equipment (IEC 60950).

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**WARNING:** To reduce potential safety issues, only the AC adapter or battery provided with the computer, a replacement AC adapter or battery provided by HP, or a compatible AC adapter or battery purchased as an accessory from HP should be used with the computer.

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For more safety and regulatory information, and for battery disposal information, refer to *Regulatory, Safety and Environmental Notices* located in Help and Support. To access this document, select **Start > Help and Support > User Guides**.

## Connect to a computer network

The computer may have the following networking capabilities:

- Local area network (LAN)
- Wireless local area network (WLAN)
- Bluetooth®

If you plan to connect the computer to a home office LAN or WLAN, refer to Help and Support for information on networking. If you need assistance to connect to a company LAN or WLAN, contact your network administrator.

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The computer display must be open before you can connect to a wireless network.

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If the computer has a Bluetooth device, you can create a personal area network (PAN) to connect to other Bluetooth-enabled devices, such as computers, telephones, printers, headsets, speakers, and cameras. For information on using a Bluetooth device, refer to the Bluetooth online Help.

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For information on connecting the computer to the Internet when you are not connected to a network, refer to Appendix B, [“Connect to the Internet from your home.”](#)

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## Update your software

Most software, including the operating system, is updated frequently by the manufacturer or provider. Important updates to the software included with the computer may have been released since the computer left the factory.

Some updates may affect the way the computer responds to optional software or external devices. Many updates provide security enhancements.

Update the operating system and other software provided on the computer as soon as the computer is connected to the Internet.

To access update links for the operating system and other software provided on the computer:

- » Select **Start > Help and Support**.

## Locate the user guides

User guides, regulatory and safety notices, and other resources that provide information about using the computer are available through Help and Support (select **Start > Help and Support > User Guides**), or on a *User Guides* disc included with some models.

For more information about resources and support, refer to Chapter 3, “[Troubleshooting](#).”

## Turn off the computer correctly

Whenever possible, turn off the computer by using the standard shutdown procedure:

1. Save your work and close all open applications.
2. Shut down the computer through the operating system by clicking **Start** > clicking the arrow next to the Lock button, and then clicking **Shut Down**.

If you are unable to turn off the computer with this procedure, try the following emergency procedures in the sequence provided:



**CAUTION:** Emergency shutdown procedures result in the loss of unsaved information.

---

- Press **ctrl+alt+delete**. Then, in the lower-right corner of the screen, click the **Power** button.
- Press and hold the power button for at least 5 seconds.
- Disconnect the computer from external power and remove the battery.

# 3

## Troubleshooting

### Troubleshooting resources

If you experience computer problems, follow the troubleshooting steps below:

1. Refer to “[Quick troubleshooting](#),” next in this chapter.
2. Access additional information about the computer and Web site links through Help and Support. Select **Start > Help and Support**.



Although many checkup and repair tools require an Internet connection, other tools can help you fix a problem when the computer is offline.

3. Contact Customer Care for further assistance.


### Quick troubleshooting

#### The computer is unable to start up

To turn on the computer, press the power button. When the computer is turned on, the power light is turned on.

If the computer and the power light are not turned on when you press the power button, adequate power may not be available to the computer.

The suggestions below may help you determine why the computer will not start up:

- If the computer is plugged into an AC outlet, be sure that the AC outlet is providing adequate power by plugging another electrical device into the outlet.
- If the power light on the front of the computer is blinking rapidly, replace the AC adapter with one having a higher power rating, and then plug the adapter into an AC outlet.
  -  Use only the included AC adapter or one approved for this computer.
- If the computer is running on battery power or is plugged into an external power source other than an AC outlet, plug the computer into an AC outlet using the AC adapter. Be sure the power cord and AC adapter connections are secure.
- If the computer is running on battery power:
  - ❑ Remove the primary battery and optional accessory battery (if applicable) and plug the computer into an AC outlet using the AC adapter. If you can turn the computer on, one of the batteries may need to be replaced.
  - ❑ If the battery light on the front of the computer is blinking, the battery has reached a low battery level, which may not allow the computer to start up. Plug the computer to an AC outlet using the AC adapter to start the computer and allow the battery to charge.



## The computer screen is blank

If the computer is on but the screen is blank, the computer may be in the Sleep state or in Hibernation, may not be set to display the image on the computer screen, or the display switch may not be functioning properly.

Try the suggestions below to resolve the issue:

- To exit Sleep or Hibernation, briefly press the power button.  
Sleep and Hibernation are energy-saving features that can turn off the display. Sleep and Hibernation can be initiated by the system while the computer is on but not in use, or when the computer has reached a low battery level. To change these and other power settings, select **Start > Control Panel > System and Maintenance > Power Options**.
- To transfer the image to the computer screen, press **fn+f4**.  
On most models, when an optional external display device, such as a monitor, is connected to the computer, the image can be displayed on the computer screen or the external display, or on both devices simultaneously. When you press **fn+f4** repeatedly, the image alternates among the computer display, one or more external display devices, and simultaneous displays on all devices.
- Press the display switch on the computer to be sure that it moves freely.  
The display switch is normally located on the upper-left corner of the keyboard.

## Software is functioning abnormally

If the software becomes unresponsive or responds abnormally:

- Restart the computer by clicking **Start**, clicking the arrow next to the Lock button, and then clicking **Restart**.

If you cannot restart the computer using this procedure, refer to the next section, “[The computer is turned on but not responding](#).”

- Run a virus scan. For information about using the antivirus resources on the computer, refer to “[Protect the computer from viruses](#)” in Chapter 2, “[Next steps](#).”

## The computer is turned on but not responding

If the computer is turned on, but not responding to software or keyboard commands, turn off the computer by using the standard shutdown procedure:

1. Save your work and close all open applications.
2. Shut down the computer through the operating system by clicking **Start**, clicking the arrow next to the Lock button, and then clicking **Shut Down**.

If you are unable to shut down the computer with this procedure, try the following emergency procedures in the sequence provided:



**CAUTION:** Emergency shutdown procedures result in the loss of unsaved information.

- Press **ctrl+alt+delete**. Then, in the lower-right corner of the screen, click the **Power** button.
- Press and hold the power button for at least 5 seconds.
- Disconnect the computer from external power and remove the battery.

## The computer is unusually warm

It is normal for the computer to feel warm to the touch while it is in use. But if the computer feels *unusually* warm, it may be overheating because a vent is blocked.

If you suspect that the computer is overheating, allow the computer to cool to room temperature. Then be sure to keep all vents free from obstructions while you are using the computer.



**CAUTION:** To prevent overheating, do not obstruct vents. Use the computer only on a hard, flat surface. Do not allow another hard surface, such as such as an adjoining printer, or a soft surface, such as pillows or thick rugs or clothing, to block airflow.



The fan in the computer starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation.

## An external device is not working

If an external device does not function as expected:

- Turn on the device as instructed in the device user guide. Some devices may not be powered by the computer, and must be turned on before the computer is turned on.
- Be sure that
  - All device connections are secure.
  - The device is receiving electrical power.
  - The device, especially if it is an older one, is compatible with your operating system. For compatibility information, refer to the device manufacturer's Web site.
  - The correct drivers are installed and updated. Drivers may be available on a CD included with the device or on the device manufacturer's Web site. For more information about updating drivers, select **Start > Help and Support**.

## The home wireless network connection is not working

If a home wireless network connection is not working as expected:

- Be sure that the wireless light on the computer is on. If the light is off, press the wireless button to turn it on.
- Be sure that the computer wireless antennae are free from obstructions.
- Be sure that the cable or DSL modem and its power cord are properly connected, and the lights are on.

- Be sure that the wireless router (access point) is properly connected to its power adapter and the cable modem, and the lights are on.
- Disconnect and then reconnect all cables, and turn the power off and then back on.



For information on setting up a home wireless network connection, visit <http://www.hp.com/go/techcenter/wireless> (English only).

---

## Help and Support

If the preceding questions and solutions did not address your problem, access Help and Support by selecting **Start > Help and Support**. In addition to providing information about your operating system, Help and Support provides

- Information about the computer, such as model and serial number, installed software, hardware components, and specifications.
- Answers to questions about using the computer.
- Product information to help you learn to use the computer and operating system features.
- Updates for the operating system, device drivers, and software provided on the computer.
- Checkups for computer functionality.
- Automated and interactive troubleshooting, repair solutions, and system recovery procedures.
- Links to community forums of IT experts.

## Customer Care

If you are unable to find the help you need by using Help and Support, you may need to contact Customer Care.

## Prepare to contact Customer Care

For the fastest possible resolution of your problem, have the computer and the following information available when you call or e-mail:

- Product name located on the display or keyboard.
- Serial number (s/n) listed on the service tag.
  - The service tag label is on the bottom of the computer.
  - To display the service tag information on the computer screen, select **Start > Help and Support > System Information**.
- Date the computer was purchased.
- Conditions under which the problem occurred.
- Error messages that have been displayed.
- The manufacturer and model of the printer or other accessories connected to the computer.
- Operating system version number and registration number.

To display the operating system version number and registration number, select **Start > Help and Support > System Information**. (On some models, the registration number may be identified in the Operating System table as the *Product Id*).

## Contact Customer Care by e-mail or telephone

If the computer is connected to the Internet, select **Start > Help and Support** to get help by e-mail or to access the Customer Care telephone numbers.

# A

## Notebook tour



Components included with the computer may vary by region and model. The illustrations in this appendix identify the standard features included on most computer models.

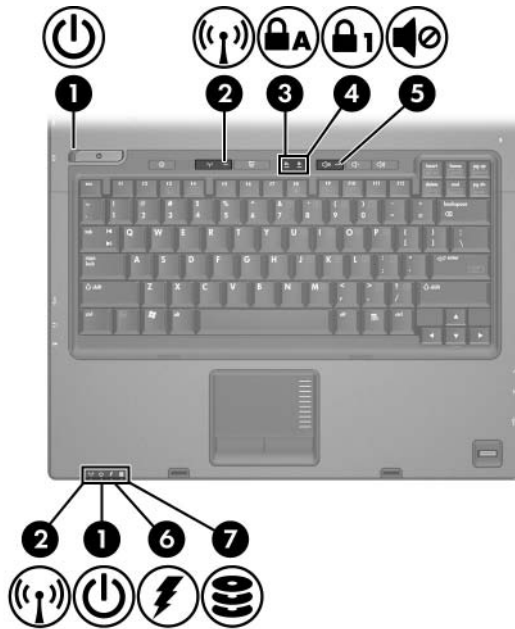
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# Top components

## Lights



Refer to the illustration that most closely matches your computer.



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**Component**

---

**1** Power lights (2)

**5** Volume mute light

**2** Wireless lights (2)

**6** Battery light

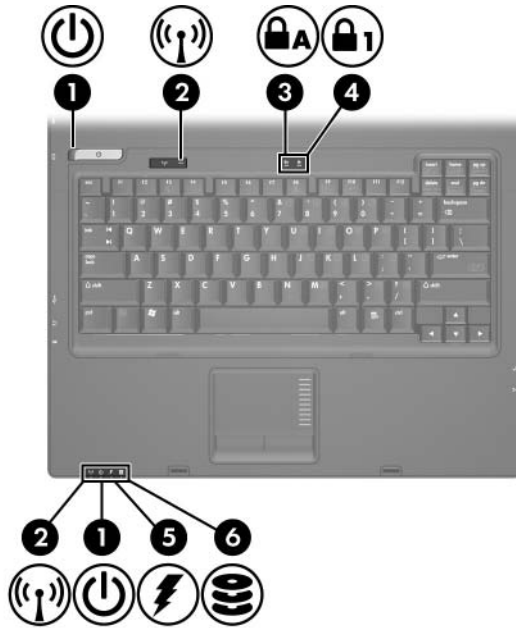
**3** Caps lock light

**7** Drive light

**4** Num lock light

---






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**Component**

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**1** Power lights (2)

**4** Num lock light

**2** Wireless lights (2)

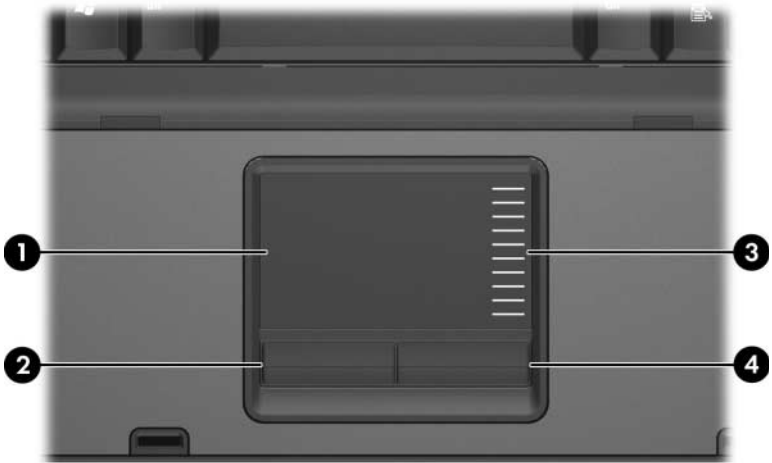
**5** Battery light

**3** Caps lock light

**6** Drive light

---

## TouchPad



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**Component**

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❶ TouchPad

❸ TouchPad scroll zone

❷ Left TouchPad button

❹ Right TouchPad button

---

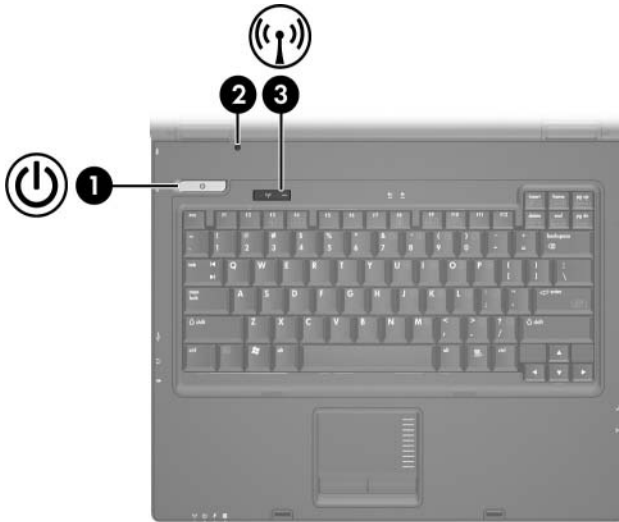
## Buttons, switches and readers



Refer to the illustration that most closely matches your computer.



Component			
❶	Power button	❹	Volume mute button
❷	Display switch	❺	Volume down button
❸	Info Center button	❻	Volume up button
❹	Wireless button	❼	Internal microphone
❺	Presentation button	❽	Fingerprint reader



---

**Component**

---

❶ Power button

❸ Wireless button

❷ Display switch

---

## Keys



Your computer may look slightly different from the illustrations in this appendix.

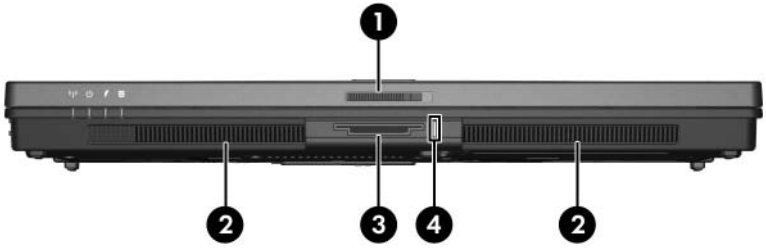


Component	
1	esc key
2	fn key
3	Windows logo key
4	Windows applications key
5	Embedded numeric keypad
6	Editing keys
7	Function keys

# Front components



Refer to the illustration that most closely matches your computer.

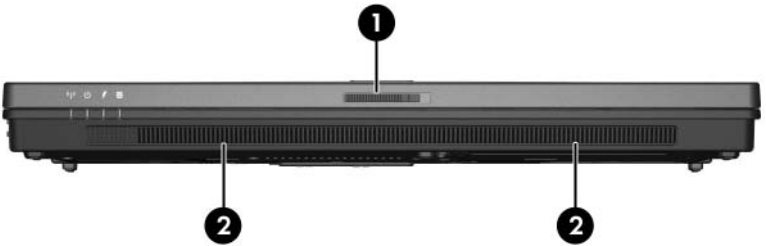


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**Component**

---

- |                         |                            |
|-------------------------|----------------------------|
| ❶ Display release latch | ❸ Digital Media Slot       |
| ❷ Speakers (2)          | ❹ Digital Media Slot light |
- 



---

**Component**

---

- |                         |                |
|-------------------------|----------------|
| ❶ Display release latch | ❷ Speakers (2) |
|-------------------------|----------------|
-

## Rear components



Refer to the illustration that most closely matches your computer.



### Component

- |                       |                    |
|-----------------------|--------------------|
| ❶ Security cable slot | ❸ S-Video-out jack |
| ❷ Power connector     |                    |



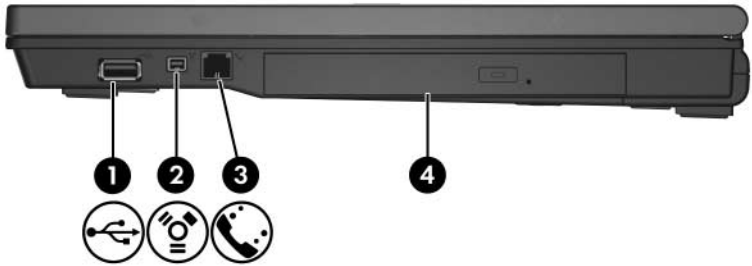
### Component

- |                       |                   |
|-----------------------|-------------------|
| ❶ Security cable slot | ❷ Power connector |
|-----------------------|-------------------|

## Right-side components



Refer to the illustration that most closely matches your computer.

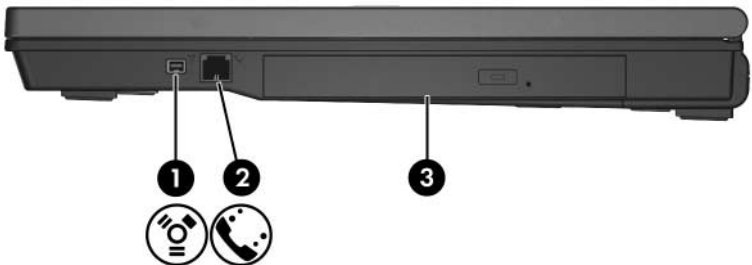


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**Component**

---

- |   |           |   |                    |
|---|-----------|---|--------------------|
| ❶ | USB port  | ❸ | RJ-11 (modem) jack |
| ❷ | 1394 port | ❹ | Optical drive      |
- 



---

**Component**

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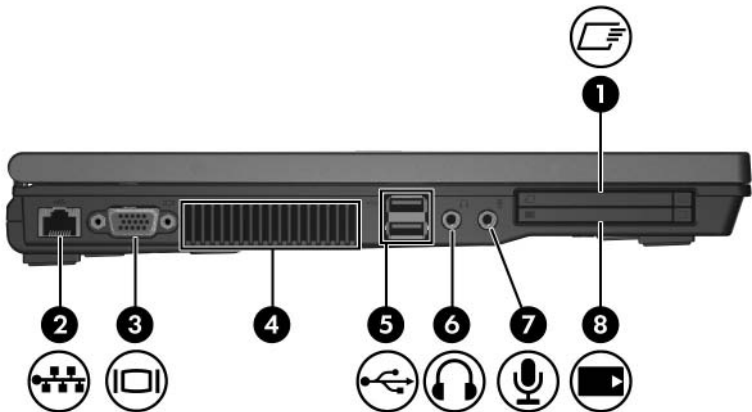
- |   |                    |   |               |
|---|--------------------|---|---------------|
| ❶ | 1394 port          | ❸ | Optical drive |
| ❷ | RJ-11 (modem) jack |   |               |
-



## Left-side components



Your computer may look slightly different from the illustration in this chapter.

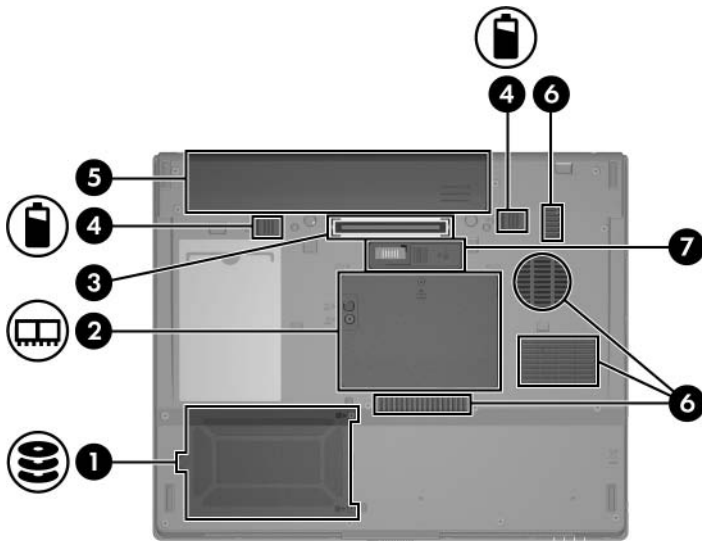


Component	
❶	ExpressCard slot (select models only)
❷	RJ-45 (network) jack
❸	External monitor port
❹	Vent
❺	USB ports (2)
❻	Audio-out (headphone) jack
❼	Audio-in (microphone) jack
❽	PC Card slot (select models only) or smart card slot (select models only)

## Bottom components

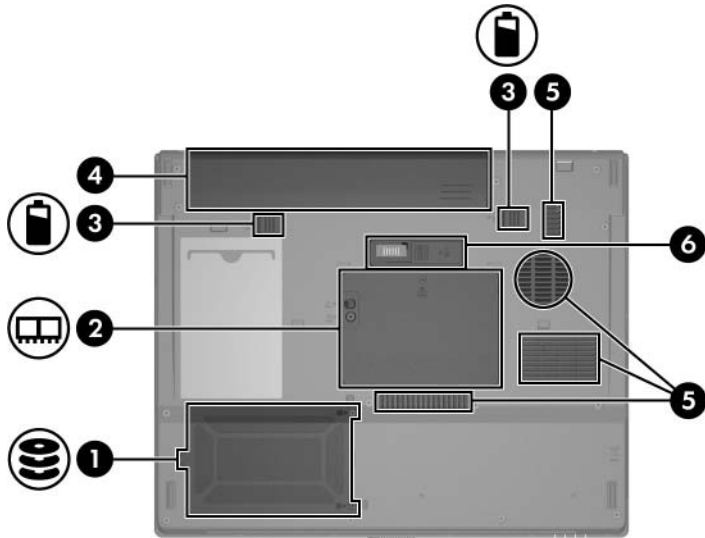


Refer to the illustration that most closely matches your computer.



### Component

①	Hard drive bay	⑤	Primary battery bay
②	Expansion memory module compartment	⑥	Vents (4)*
③	Docking connector	⑦	Accessory battery connector (exposed when cover is pushed to the right)
④	Primary battery release latches (2)		




---

**Component**

---

<b>1</b>	Hard drive bay	<b>4</b>	Primary battery bay
<b>2</b>	Expansion memory module compartment	<b>5</b>	Vents (4)*
<b>3</b>	Primary battery release latches (2)	<b>6</b>	Accessory battery connector (exposed when cover is pushed to the right)

---

## **WLAN antennae (select models only)**



# B

## Connect to the Internet from your home

The computer includes hardware and software that allows you to connect to the Internet. Before you can access the Internet, you must

- Choose an Internet Service Provider (ISP).
- Choose the type of Internet connection you want, such as broadband, wireless, or dial-up, and connect the hardware.



Internet hardware and software features vary depending on the computer model and your location.

---

### Choose an ISP

You must set up Internet service before you can connect to the Internet. The computer includes the New Connection Wizard to help you set up a new Internet account or configure the computer to use an existing account.

### Use the New Connection Wizard

You can use the New Connection Wizard to connect to the Internet

- If you already have an account with an ISP.
- If you have a disc from an ISP.

- If you do not have an Internet account and would like to select an ISP from the list provided within the wizard.
- If you have selected an unlisted ISP and the ISP has provided you with such information as a specific IP address and POP3 and SMTP settings.

To access the New Connection Wizard and instructions for using the wizard:

- » Select **Start > Help and Support**.



---

If you are prompted within the wizard to choose between enabling or disabling Windows Firewall, choose to enable the firewall.

---

## Choose the type of Internet connection

There are 3 basic types of Internet connection:

- **Broadband:** High-speed Internet access is available through
  - Cable modem
  - Digital Subscriber Line (DSL)
  - Satellite
  - Other services

For broadband access, additional hardware and/or software must be provided by your ISP.

- **Wireless:** For high-speed mobile Internet access, you can use a wireless connection. A wireless network set up at home requires a wireless router (purchased separately). To learn about setting up wireless access, visit <http://www.hp.com/go/techcenter/wireless> (English only).
- **Dial-up:** You can access the Internet by dialing in to a service provider using a modem cable connected to the RJ-11 (modem) jack.

# Backup and recovery

HP Backup and Recovery Manager provides several ways to back up the system and to recover optimal system functionality.



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HP installed drivers, utilities, and programs can be copied to a CD or to a DVD using the HP Backup and Recovery Manager.

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Formatted DVD±RW and DVD±RW double-layer discs are not compatible with HP Backup and Recovery Manager.

---



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The computer must be connected to external power before you perform backup and recovery procedures.

---

## Safeguard your data

To safeguard your documents, store personal files in the Documents folder and periodically create a backup copy of the folder.

## Back up the system

Using HP Backup and Recovery Manager, you can

- Back up specific files and folders.
- Back up the entire hard drive.

- Back up modifications since your last backup, using HP system recovery points.
- Schedule backups.

## Back up specific files or folders

You can back up specific files or folders to the recovery partition on the hard drive, to an optional external hard drive, or to discs.



---

This process will take several minutes, depending on the file size and the speed of the computer.

---

To back up specific files or folders:

1. Select **Start > All Programs > HP Backup & Recovery > HP Backup and Recovery Manager**.

The HP Backup and Recovery Manager opens.

2. Click **Next**.
3. Click **Back up to protect system settings and important data files**, and then click **Next**.
4. Click **Back up individual files and folders**, and then click **Next**.

The Backup Wizard opens.

5. Click **Next**.
6. Click **Back up selected files from most common locations (Recommended)**.

– or –

Click **Advanced Backup (Experienced users)** to access advanced filtering techniques.

7. Click **Next**.
8. Follow the on-screen instructions.



## Back up the entire hard drive

When you perform a complete backup of the hard drive, you are saving the full factory image, including the Windows operating system, software applications, and all personal files and folders.

---



A copy of the entire hard drive image can be stored on another hard drive, on a network drive, or on recovery discs that you create.

---



This process may take over an hour, depending on your computer speed and the amount of data being stored.

---

To back up the entire hard drive:

1. Select **Start > All Programs > HP Backup & Recovery > HP Backup and Recovery Manager**.

The HP Backup and Recovery Manager opens.

2. Click **Next**.
3. Click **Backup to protect system and important data files**, and then click **Next**.
4. Click **Back up entire hard drive**, and then click **Next**.

The “Back up entire hard disk” page opens.

5. Click **Next**.
6. Select the location for the backup files, and then click **Next**.
7. Select the **Protect data access with password** check box, and then type your password in the **Password** and **Confirm** boxes.



This step is optional. If you do not want to password-protect your data access, clear the **Protect data access with password** check box.

8. Click **Next**.
9. Follow the on-screen instructions.

## Back up modifications made to the system

When you back up modifications made to the system, you are creating system recovery points. This allows you to save a snapshot of your hard drive at a specific point in time. You can then recover back to that point if you want to reverse subsequent changes made to your system.



---

The first system recovery point, a snapshot of the entire image, is automatically created the first time you perform a backup. Subsequent recovery points make a copy of changes made after that time.

---

HP recommends that you create recovery points

- Before you add or extensively modify software or hardware.
  - Periodically, whenever the system is performing optimally.
- 



Recovering to an earlier recovery point does not affect data files or e-mails created since that recovery point.

---

After you create a recovery point, you are prompted to schedule subsequent recovery points. You can schedule recovery points for a specific time or event in your system.

To create and schedule a system recovery point:

1. Select **Start > All Programs > HP Backup & Recovery > HP Backup and Recovery Manager**.
2. Click **Next**.
3. Click **Back up to protect system settings and important data files**, and then click **Next**.
4. Click **Create or manage Recovery Points**, and then click **Next**.

The “Recovery Point Manager” page opens.

5. Follow the on-screen instructions.

## Schedule backups

To schedule backups:

1. Select **Start > All Programs > HP Backup & Recovery > HP Backup Scheduler**.

The “Backup Scheduler” page opens.

2. Click **Next**.
3. Schedule recovery points at specific intervals (daily, weekly, or monthly) or at specific events, such as at system start or when you dock to an optional docking station (select models only), by clicking one of the available options. Click **Next** to further define the settings.

A summary of your recovery point settings is displayed.

4. Follow the on-screen instructions.

## Recover the system

HP Backup and Recovery Manager analyzes the hard drive and creates a dedicated hard drive recovery partition on the hard drive large enough to store a copy of the full factory image. You choose whether you want to store that copy on the recovery partition, on another drive, or on external recovery discs.



Before using HP Backup and Recovery Manager, try repairing the system by running Windows System Restore. For more information, select **Start > Help and Support**, and then search for “System Restore.”

---

The HP Backup and Recovery Manager allows you to

- **Create recovery discs (highly recommended).** The recovery discs are used to start up (boot) the computer and to restore the full factory image (operating system and software) in case of system failure or instability.



If you do not have a CD or DVD burner, a copy of the entire hard drive image can be stored on another hard drive or on a network drive.

- **Perform a recovery.** You can perform a full system recovery or recover important files from a recovery partition on the hard drive, from another drive, or from recovery discs that you create.

## Create recovery discs (highly recommended)

After setting up the computer for the first time, you can create a set of recovery discs of the full factory image, using Recovery Media Creator in the HP Backup and Recovery Manager. The recovery discs are used to start up (boot) the computer and recover the operating system and software to factory settings in case of system failure or instability.



---

**CAUTION:** After you create the recovery discs, you can increase the amount of space on the hard drive by deleting the recovery partition. However, doing this is not recommended. If you delete this partition, you will lose any information that is on the partition.

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Only one set of recovery discs can be created for this computer.

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Before creating recovery discs:

- Obtain high quality CD-R, DVD-R, or DVD+R media.



Formatted DVD±RW and DVD±RW double-layer discs are not compatible with HP Backup and Recovery Manager.

- Number each disc before inserting it into the optical drive of the computer.
- If necessary, you can cancel Recovery Media Creator before you have finished creating the recovery discs. The next time you open Recovery Media Creator, you will be prompted to continue the disc creation process where you left off.

To create a set of recovery discs:

1. Select **Start > All Programs > HP Backup & Recovery > HP Backup and Recovery Manager**.
2. Click **Next**.
3. Click **Create factory software recovery CDs or DVDs to recover the system (highly recommended)**, and then click **Next**.  
The “Recovery Media Creator” page opens.
4. Click **Next**.
5. Click **Write to CD/DVD**, and then click **Next**.
6. Follow the on-screen instructions.

## Perform a recovery

### Performing a recovery from the recovery discs

To perform a recovery from the recovery discs:

1. Back up all personal files.
2. Insert the first recovery disc into the optical drive and restart the computer.
3. Follow the on-screen instructions.

## Performing a recovery from the hard drive

There are 2 ways to initiate a recovery from the hard drive:

- From within Windows.
- From the recovery partition.

### Initiating a recovery in Windows

To initiate a recovery in Windows:

1. Back up all personal files.
2. Select **Start > All Programs > HP Backup & Recovery > HP Backup and Recovery Manager**.
3. Click **Next**.
4. Click **Recover important files or the entire system**, and then click **Next**.
5. Click a recovery option, and then click **Next**.



If you choose to recover the system, the computer restarts and recovery begins.

6. Follow the on-screen instructions.

### Initiating a recovery from the hard drive recovery partition

To initiate a recovery from the hard drive recovery partition:

1. Back up all personal files.
2. Restart the computer, and then press **f11** before the Windows operating system loads.
3. Click a recovery option, and then click **Next**.
4. Follow the on-screen instructions.

# D

## Specifications

The following sections provide information on the computer operating environment specifications and power specifications.

### Operating environment

The operating environment information in the following table may be helpful if you plan to use or transport the computer in extreme environments.

Factor	Metric	U.S.
<b>Temperature</b>		
Operating (not writing to optical disc)	0°C to 35°C	32°F to 95°F
Operating (writing to optical disc)	5°C to 35°C	41°F to 95°F
Nonoperating	-20°C to 60°C	-4°F to 140°F
<b>Relative humidity</b> (noncondensing)		
Operating	10% to 90%	10% to 90%
Nonoperating	5% to 95%	5% to 95%
<b>Maximum altitude</b> (unpressurized)		
Operating (14.7 to 10.1 psia*)	-15 m to 3,048 m	-50 ft to 10,000 ft
Nonoperating (14.7 to 4.4 psia*)	-15 m to 12,192 m	-50 ft to 40,000 ft
*Pounds per square inch absolute (psia) is another unit of measurement for altitude.		

## Rated input power

The power information in this section may be helpful if you plan to travel internationally with your computer.

The computer operates on DC power, which can be supplied by an AC or a DC power source. Although the computer can be powered from a stand-alone DC power source, it should be powered only with an AC adapter or a DC power source supplied by or approved for an HP computer.

The computer is capable of accepting DC power within the following specifications.

<b>Input power</b>	<b>Rating</b>
Operating voltage	18.5 V dc @ 3.5 A - 65 W
Operating current	3.5 A

This product is designed for IT power systems in Norway with phase-to-phase voltage not exceeding 240 V rms.



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