

# HP Mini and Compaq Mini

## Getting Started

© Copyright 2011 Hewlett-Packard Development Company, L.P.

Bluetooth is a trademark owned by its proprietor and used by Hewlett-Packard Company under license. Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation. SD Logo is a trademark of its proprietor.

The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

First Edition: May 2011

Document Part Number: 647468-001

### **Product notice**

This guide describes features that are common to most models. Some features may not be available on your computer.


### **Software terms**

By installing, copying, downloading, or otherwise using any software product preinstalled on this computer, you agree to be bound by the terms of the HP End User License Agreement (EULA). If you do not accept these license terms, your sole remedy is to return the entire unused product (hardware and software) within 14 days for a refund subject to the refund policy of your place of purchase.

For any further information or for requesting a full refund of the computer, please contact your local point of sale (the seller).

## Safety warning notice

---

 **WARNING!** To reduce the possibility of heat-related injuries or of overheating the computer, do not place the computer directly on your lap or obstruct the computer air vents. Use the computer only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or rugs or clothing, to block airflow. Also, do not allow the AC adapter to come into contact with the skin or a soft surface, such as pillows or rugs or clothing, during operation. 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).

---



---

# Table of contents

<b>1 Welcome</b> .....	<b>1</b>
Finding information .....	2
<b>2 Getting to know your computer</b> .....	<b>4</b>
Top .....	4
TouchPad .....	4
Lights .....	5
Keys .....	6
Front .....	6
Right side .....	7
Left side .....	9
Display .....	10
Bottom .....	11
<b>3 HP QuickWeb</b> .....	<b>12</b>
Starting HP QuickWeb .....	12
<b>4 Networking</b> .....	<b>14</b>
Using an Internet service provider (ISP) .....	14
Connecting to a wireless network .....	15
Connecting to an existing WLAN .....	15
Setting up a new WLAN network .....	16
Configuring a wireless router .....	16
Protecting your WLAN .....	16
<b>5 Keyboard and pointing devices</b> .....	<b>17</b>
Using the keyboard .....	17
Identifying the hotkey .....	17
Using the action keys .....	17
Using pointing devices .....	20
Setting pointing device preferences .....	20

Using the TouchPad .....	20
Navigating .....	20
Selecting .....	20
Using TouchPad gestures .....	21
Scrolling .....	21
Pinching/Zooming .....	22
Rotating .....	22
<b>6 Maintenance .....</b>	<b>23</b>
Replacing the battery .....	24
Inserting the battery .....	24
Removing the battery .....	25
Removing or replacing the vanity cover .....	26
Removing the vanity cover .....	26
Replacing the vanity cover .....	26
Replacing the hard drive .....	28
Removing the hard drive .....	28
Installing a hard drive .....	28
Replacing the memory module .....	29
<b>7 Backup and recovery .....</b>	<b>32</b>
Restore .....	32
Creating restore media .....	33
Performing a system restore .....	33
Restoring using the dedicated recovery partition (select models only) .....	34
Restoring using the restore media .....	34
Changing the computer boot order .....	35
Backing up your information .....	36
Using Windows Backup and Restore .....	36
Using Windows system restore points .....	36
When to create restore points .....	37
Create a system restore point .....	37
Restore to a previous date and time .....	37
<b>8 Customer support .....</b>	<b>38</b>
Contacting customer support .....	38
Labels .....	39
<b>9 Specifications .....</b>	<b>40</b>
Input power .....	40

Operating environment ..... 41

**Index ..... 42**





---

# 1 Welcome

- [Finding information](#)

After you set up and register the computer, it is important to take the following steps:

- **Set up HP QuickWeb**—Immediately access the Internet, widgets, and communication programs without launching your main operating system. For more information, refer to [HP QuickWeb on page 12](#).
- **Connect to the Internet**—Set up your wired or wireless network so that you can connect to the Internet. For more information, refer to [Networking on page 14](#).
- **Update your antivirus software**—Protect your computer from damage caused by viruses. The software is preinstalled on the computer and includes a limited subscription for free updates. For more information, refer to the *HP Notebook Reference Guide*. For instructions on accessing this guide, refer to [Finding information on page 2](#).
- **Get to know your computer**—Learn about your computer features. Refer to [Getting to know your computer on page 4](#) and [Keyboard and pointing devices on page 17](#) for additional information.
- **Create recovery discs or a recovery flash drive**—Recover the operating system and software to factory settings in case of system instability or failure. For instructions, refer to [Backup and recovery on page 32](#).
- **Find installed software**—Access a list of the software preinstalled on the computer. Select **Start > All Programs**. For details about using the software included with the computer, refer to the software manufacturer's instructions, which may be provided with the software or on the manufacturer's Web site.

# Finding information

The computer comes with several resources to help you perform various tasks.

Resources	For information about
<i>Quick Setup</i> poster	<ul style="list-style-type: none"><li>• How to set up the computer</li><li>• Help to identify computer components</li></ul>
<i>Getting Started</i> To access this guide: Select <b>Start &gt; Help and Support &gt; User Guides</b> . – or – Select <b>Start &gt; All Programs &gt; HP &gt; HP Documentation</b> .	<ul style="list-style-type: none"><li>• Computer features</li><li>• How to connect to a wireless network</li><li>• How to use the keyboard and pointing devices</li><li>• How to replace or upgrade the hard drive and memory modules</li><li>• How to perform a backup and recovery</li><li>• How to contact customer support</li><li>• Computer specifications</li></ul>
<i>HP Notebook Reference Guide</i> To access this guide, select <b>Start &gt; Help and Support &gt; User Guides</b> . – or – Select <b>Start &gt; All Programs &gt; HP &gt; HP Documentation</b> .	<ul style="list-style-type: none"><li>• Power management features</li><li>• How to maximize battery life</li><li>• How to use the multimedia features of the computer</li><li>• How to protect the computer</li><li>• How to care for the computer</li><li>• How to update the software</li></ul>
Help and Support To access Help and Support, select <b>Start &gt; Help and Support</b> . <b>NOTE:</b> For country- or region-specific support, go to <a href="http://www.hp.com/support">http://www.hp.com/support</a> , select your country or region, and follow the on-screen instructions.	<ul style="list-style-type: none"><li>• Operating system information</li><li>• Software, driver, and BIOS updates</li><li>• Troubleshooting tools</li><li>• How to access technical support</li></ul>
<i>Regulatory, Safety and Environmental Notices</i> To access the notices, select <b>Start &gt; Help and Support &gt; User Guides</b> . – or – Select <b>Start &gt; All Programs &gt; HP &gt; HP Documentation</b> .	<ul style="list-style-type: none"><li>• Regulatory and safety information</li><li>• Battery disposal information</li></ul>

Resources	For information about
<p><i>Safety &amp; Comfort Guide</i></p> <p>To access this guide:</p> <p>Select <b>Start &gt; Help and Support &gt; User Guides</b>.</p> <p>– or –</p> <p>Select <b>Start &gt; All Programs &gt; HP &gt; HP Documentation</b>.</p> <p>– or –</p> <p>Go to <a href="http://www.hp.com/ergo">http://www.hp.com/ergo</a>.</p>	<ul style="list-style-type: none"> <li>• Proper workstation setup, posture, health, and work habits</li> <li>• Electrical and mechanical safety information</li> </ul>
<p><i>Worldwide Telephone Numbers</i> booklet</p> <p>This booklet is provided with your computer.</p> <p>HP Web site</p> <p>To access this Web site, go to <a href="http://www.hp.com/support">http://www.hp.com/support</a>.</p>	<p>HP support telephone numbers</p> <ul style="list-style-type: none"> <li>• Support information</li> <li>• Ordering parts and finding additional help</li> <li>• Software, driver, and BIOS updates</li> <li>• Accessories available for the device</li> </ul>
<p><i>Limited Warranty*</i></p> <p>To access the warranty:</p> <p>Select <b>Start &gt; Help and Support &gt; User Guides &gt; View Warranty Information</b>.</p> <p>– or –</p> <p>Select <b>Start &gt; All Programs &gt; HP &gt; HP Documentation &gt; View Warranty Information</b>.</p> <p>– or –</p> <p>Go to <a href="http://www.hp.com/go/orderdocuments">http://www.hp.com/go/orderdocuments</a>.</p>	<p>Warranty information</p>
<p>*You may find the expressly provided HP Limited Warranty applicable to your product located with the electronic guides on your computer and/or on the CD/DVD provided in the box. Some countries/regions may provide a printed HP Limited Warranty in the box. In countries/regions where the warranty is not provided in printed format, you may request a printed copy at <a href="http://www.hp.com/go/orderdocuments">http://www.hp.com/go/orderdocuments</a> or write to:</p> <ul style="list-style-type: none"> <li>• <b>North America:</b> Hewlett-Packard, MS POD, 11311 Chinden Blvd, Boise, ID 83714, USA</li> <li>• <b>Europe, Middle East, Africa:</b> Hewlett-Packard, POD, Via G. Di Vittorio, 9, 20063, Cernusco s/Naviglio (MI), Italy</li> <li>• <b>Asia Pacific:</b> Hewlett-Packard, POD, P.O. Box 200, Alexandra Post Office, Singapore 911507</li> </ul> <p>Please include your product number, warranty period (found on your serial number label), name, and postal address.</p>	

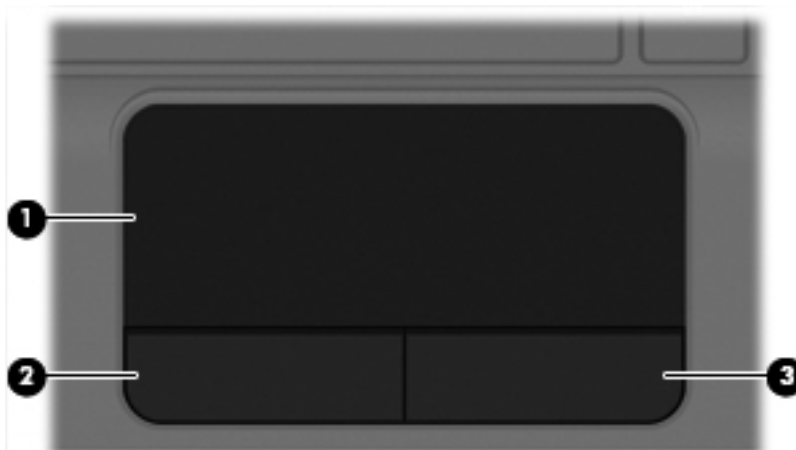
---

## 2 Getting to know your computer

- [Top](#)
- [Front](#)
- [Right side](#)
- [Left side](#)
- [Display](#)
- [Bottom](#)

### Top



#### TouchPad



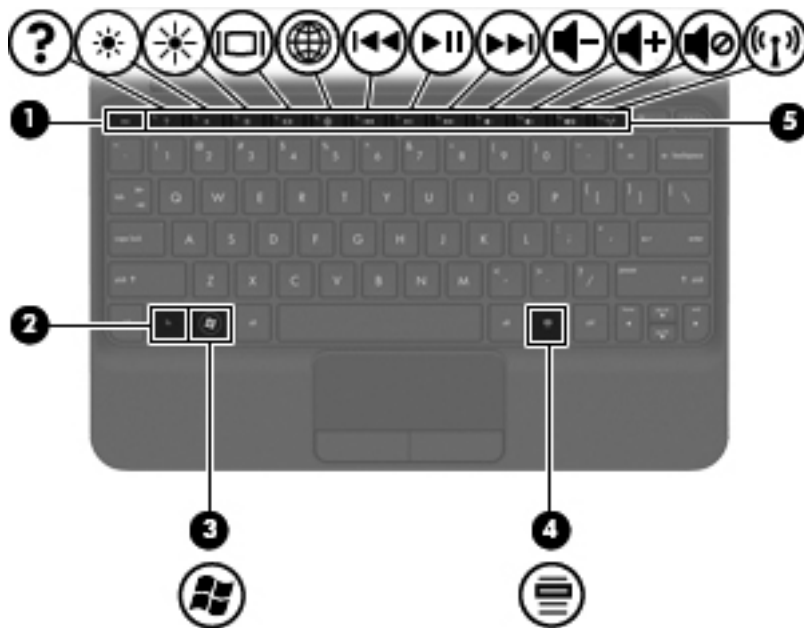
Component	Description
(1) TouchPad zone	Moves the pointer and selects or activates items on the screen.
(2) Left TouchPad button	Functions like the left button on an external mouse.
(3) Right TouchPad button	Functions like the right button on an external mouse.



## Lights



Component	Description
(1) Caps lock light	<ul style="list-style-type: none"><li>• White: Caps lock is on.</li><li>• Off: Caps lock is off.</li></ul>
(2)  Mute light	<ul style="list-style-type: none"><li>• Amber: Computer sound is off.</li><li>• Off: Computer sound is on.</li></ul>
(3)  Wireless light	<ul style="list-style-type: none"><li>• White: An integrated wireless device, such as a wireless local area network (WLAN) device and/or a Bluetooth® device, is on.</li><li>• Amber: All wireless devices are off.</li></ul>

## Keys



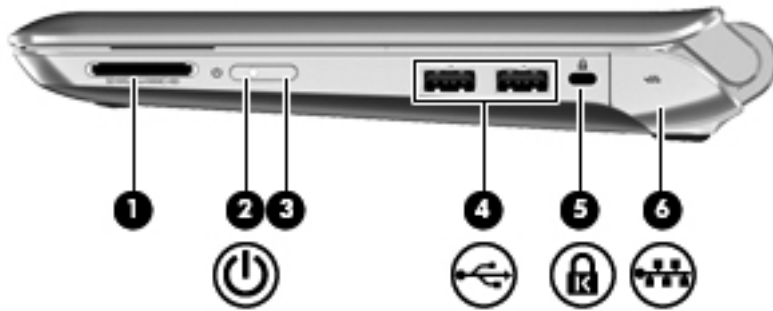
Component	Description
(1) <code>esc</code> key	Displays system information when pressed in combination with the <code>fn</code> key.
(2) <code>fn</code> key	Displays system information when pressed in combination with the <code>esc</code> key.
(3)  Windows® logo key	Displays the Windows Start menu.
(4)  Windows applications key	Displays a shortcut menu for items beneath the pointer.
(5) Action keys	Execute frequently used system functions.



## Front





Component	Description
Speakers (2)	Produce sound.

## Right side

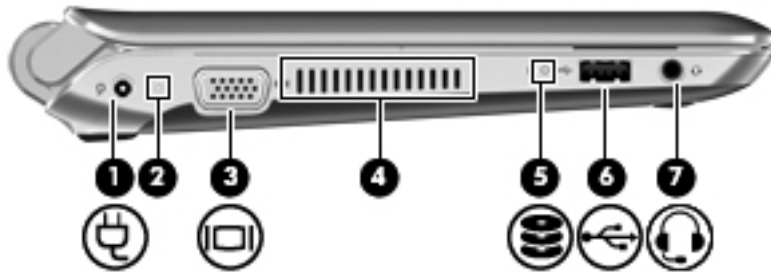









Component	Description
(1) Digital Media Slot	<p>Supports the following digital card formats:</p> <ul style="list-style-type: none"> <li>• Memory Stick</li> <li>• Memory Stick Pro</li> <li>• MultiMediaCard</li> <li>• Secure Digital (SD) Memory Card</li> <li>• Secure Digital High Capacity (SDHC) Memory Card</li> <li>• Secure Digital Extended Capacity (SDxC) Memory Card</li> </ul>
(2)  Power light	<ul style="list-style-type: none"> <li>• White: The computer is on.</li> <li>• Blinking white: The computer is in the Sleep state.</li> <li>• Off: The computer is off or in Hibernation.</li> </ul>
(3) Power switch	<ul style="list-style-type: none"> <li>• When the computer is off, slide the switch to turn on the computer.</li> <li>• When the computer is on, slide the switch briefly to initiate Sleep.</li> <li>• When the computer is in the Sleep state, slide the switch briefly to exit Sleep.</li> <li>• When the computer is in Hibernation, slide the switch briefly to exit Hibernation.</li> </ul> <p>If the computer has stopped responding and Windows shutdown procedures are ineffective, slide and hold the power switch for at least 5 seconds to turn off the computer.</p> <p>To learn more about your power settings, select <b>Start &gt; Control Panel &gt; System and Security &gt; Power Options</b>, or refer to the <i>HP Notebook Reference Guide</i>.</p>
(4)  USB ports (2)	Connect optional USB devices.

Component	Description
(5)  Security cable slot	Attaches an optional security cable to the computer.  <b>NOTE:</b> The security cable is designed to act as a deterrent, but it may not prevent the computer from being mishandled or stolen.
(6)  RJ-45 (network) jack and cover	Connects a network cable.



## Left side



Component	Description
(1) 	Power connector Connects an AC adapter.
(2) 	AC adapter/battery light <ul style="list-style-type: none"> <li>White: The computer is connected to external power and the battery is fully charged.</li> <li>Amber: A battery is charging.</li> <li>Blinking amber: The battery has reached a low or critical battery level or there is a battery error.</li> <li>Off: The computer is running on battery power.</li> </ul>
(3) 	External monitor port Connects an external VGA monitor or projector.
(4) 	Vent Enables airflow to cool internal components. <b>NOTE:</b> The computer fan 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.
(5) 	Hard drive light Blinking white: The hard drive is being accessed.
(6) 	USB port Connects an optional USB device.
(7) 	Audio-out (headphone) jack/Audio-in (microphone) jack Connects optional powered stereo speakers, headphones, earbuds, a headset, or television audio. Also connects an optional headset microphone. <b>WARNING!</b> To reduce the risk of personal injury, adjust the volume before putting on headphones, earbuds, or a headset. For additional safety information, refer to the <i>Regulatory, Safety and Environmental Notices</i> . <b>NOTE:</b> When a device is connected to the jack, the computer speakers are disabled. <b>NOTE:</b> The audio component must have a 4-conductor connector.

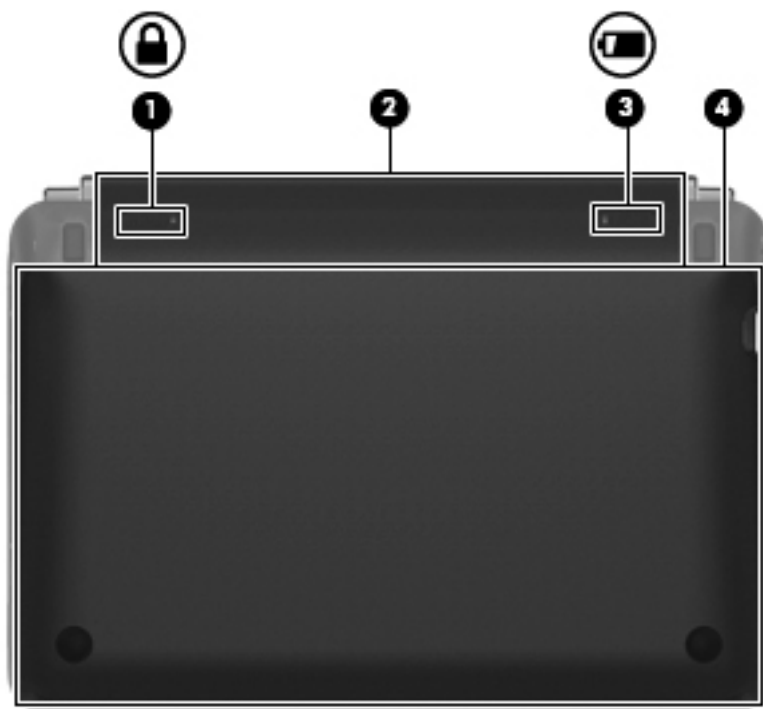
# Display





Component	Description
(1) WLAN antennas (2)*	Send and receive wireless signals to communicate with wireless local area networks (WLAN).
(2) WWAN antennas (2)* (select models only)	Send and receive wireless signals to communicate with wireless wide-area networks (WWAN).
(3) Internal microphone	Records sound.
(4) Webcam	Records video and captures still photographs.  To use the webcam, select <b>Start &gt; All Programs &gt; HP &gt; HP MediaSmart &gt; HP MediaSmart Webcam</b> .
(5) Webcam light	On: The webcam is in use.

\*The antennas are not visible from the outside of the computer. For optimal transmission, keep the areas immediately around the antennas free from obstructions. To see wireless regulatory notices, refer to the section of the *Regulatory, Safety and Environmental Notices* that applies to your country or region. These notices are located in Help and Support.

## Bottom



Component	Description
(1)  Battery locking latch	Locks the battery into the battery bay.
(2) Battery bay	Holds the battery. <b>NOTE:</b> The SIM slot is located under the battery.
(3)  Battery release latch	Releases the battery from the battery bay.
(4) Vanity cover	Gives access to the hard drive and the memory module and wireless device compartments. <b>CAUTION:</b> To prevent an unresponsive system, replace the wireless module only with a wireless module authorized for use in the computer by the governmental agency that regulates wireless devices in your country or region. If you replace the module and then receive a warning message, remove the module to restore computer functionality, and then contact technical support.

---

## 3 HP QuickWeb

- [Starting HP QuickWeb](#)

The HP QuickWeb environment provides a fun and engaging way to perform many of your favorite activities. Your computer is ready to go within seconds of starting QuickWeb, allowing you to rapidly access the Internet, widgets, and communication programs. Simply press the QuickWeb key, and then start browsing the Internet, communicating with Skype, and exploring other HP QuickWeb programs.

Your HP QuickWeb Home screen includes the following features:

- Web browser—Search and browse the Internet, and create links to your favorite Web sites.
- Skype—Communicate using Skype, an application that uses voice over Internet protocol (VoIP). Skype lets you make conference calls or have video chats with one or more people at a time. You can also make long-distance phone calls to land lines.
- Widgets—Start using widgets for news, weather, social networking, stocks, a calculator, sticky notes, and more. You can also use Widget Manager to add more widgets to the HP QuickWeb Home screen.



**NOTE:** For additional information about using HP QuickWeb, refer to the HP QuickWeb software Help.

---

### Starting HP QuickWeb

- ▲ To start HP QuickWeb, press the QuickWeb key when the computer is off or in Hibernation.

The following table explains the different behaviors of the QuickWeb key.

Key	Behavior
QuickWeb key	<ul style="list-style-type: none"><li>• When the computer is off or in Hibernation, opens HP QuickWeb.</li><li>• When the computer is in Microsoft® Windows, opens the default Web browser.</li><li>• When the computer is in HP QuickWeb, opens the default Web browser.</li></ul> <p><b>NOTE:</b> If your computer does not have HP QuickWeb software, the key does not perform any action or function.</p>

---



---

**NOTE:** For more information, refer to the HP QuickWeb software Help.

---

---

# 4 Networking

- [Using an Internet service provider \(ISP\)](#)
- [Connecting to a wireless network](#)



**NOTE:** Internet hardware and software features vary depending on computer model and your location.

Your computer may support one or both of the following types of Internet access:

- **Wireless**—For mobile Internet access, you can use a wireless connection. Refer to [Connecting to an existing WLAN on page 15](#) or [Setting up a new WLAN network on page 16](#).
- **Wired**—You can access the Internet by connecting to a wired network. For information on connecting to a wired network, refer to the *HP Notebook Reference Guide*.

## Using an Internet service provider (ISP)

Before you can connect to the Internet, you must establish an ISP account. Contact a local ISP to purchase Internet service and a modem. The ISP will help set up the modem, install a network cable to connect your wireless computer to the modem, and test the Internet service.




**NOTE:** Your ISP will give you a user ID and password to access the Internet. Record this information and store it in a safe place.

The following features will help you set up a new Internet account or configure the computer to use an existing account:

- **Internet Services & Offers (available in some locations)**—This utility assists with signing up for a new Internet account and configuring the computer to use an existing account. To access this utility, select **Start > All Programs > Online Services > Get Online**.
- **ISP-provided icons (available in some locations)**—These icons may be displayed either individually on the Windows desktop or grouped in a desktop folder named Online Services. To set up a new Internet account or configure the computer to use an existing account, double-click an icon, and then follow the on-screen instructions.
- **Windows Connect to the Internet Wizard**—You can use the Windows Connect to the Internet Wizard to connect to the Internet in any of these situations:
  - You already have an account with an ISP.
  - You do not have an Internet account and want to select an ISP from the list provided within the wizard. (The list of ISP providers is not available in all regions.)
  - You have selected an unlisted ISP, and the ISP has provided you with information such as a specific IP address and POP3 and SMTP settings.

To access the Windows Connect to the Internet Wizard and instructions for using it, select **Start > Control Panel > Network and Internet > Network and Sharing Center**.

---

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

---

## Connecting to a wireless network

Wireless technology transfers data across radio waves instead of wires. Your computer may be equipped with one or more of the following wireless devices:

- Wireless local area network (WLAN) device
- HP Mobile Broadband Module, a wireless wide area network (WWAN) device
- Bluetooth device

For more information on wireless technology and connecting to a wireless network, refer to the *HP Notebook Reference Guide* and information and Web site links provided in Help and Support.


## Connecting to an existing WLAN

1. Turn on the computer.
2. Be sure that the WLAN device is on.
3. Click the network icon in the notification area, at the far right of the taskbar.
4. Select a network to connect to.
5. Click **Connect**.
6. If required, enter the security key.

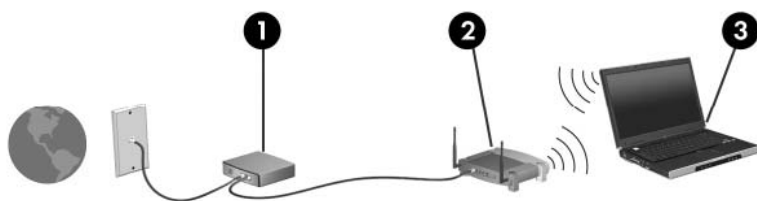
## Setting up a new WLAN network

Required equipment:

- A broadband modem (either DSL or cable) **(1)** and high-speed Internet service purchased from an Internet service provider (ISP)
- A wireless router (purchased separately) **(2)**
- Your new wireless computer **(3)**

 **NOTE:** Some modems have a built-in wireless router. Check with your ISP to determine what type of modem you have.


The illustration shows an example of a completed WLAN network installation that is connected to the Internet. As your network grows, additional wireless and wired computers can be connected to the network to access the Internet.



## Configuring a wireless router

For help in setting up a WLAN, refer to the information provided by your router manufacturer or your ISP.

The Windows operating system also provides tools to help you set up a new wireless network. To use the Windows tools to set up your network, select **Start > Control Panel > Network and Internet > Network and Sharing Center > Set up a new connection or network > Set up a new network**. Then follow the on-screen instructions.

 **NOTE:** It is recommended that you initially connect your new wireless computer to the router by using the network cable provided with the router. When the computer successfully connects to the Internet, you can disconnect the cable, and then access the Internet through your wireless network.

## Protecting your WLAN

When you set up a WLAN or access an existing WLAN, always turn on security features to protect your network from unauthorized access.

For information on protecting your WLAN, refer to the *HP Notebook Reference Guide*.



---

# 5 Keyboard and pointing devices

- [Using the keyboard](#)
- [Using pointing devices](#)

## Using the keyboard

### Identifying the hotkey

A hotkey is a combination of the **fn** key (1) and the **esc** key (2).


Hotkey	Description
<b>fn+esc</b>	Displays information about system hardware components and the system BIOS version number.




### Using the action keys











Action keys are customized actions that are assigned to specific keys at the top of the keyboard. The icons on the **f1** through **f12** keys represent the action key functions.



To use an action key, press and hold this key to activate the assigned function.

 **NOTE:** The action key feature is enabled at the factory. You can disable this feature in Setup Utility (BIOS) and revert back to standard settings by pressing the **fn** key and one of the function keys to activate the assigned function. Refer to the “Setup Utility (BIOS) and System Diagnostics” chapter in the *HP Notebook Reference Guide* for instructions.


 **CAUTION:** Use extreme care when making changes in Setup Utility. Errors can prevent the computer from operating properly.



Icon	Key	Description
	f1	<p>Opens Help and Support, which provides information about your Windows operating system and computer, answers to questions and tutorials, and updates to your computer.</p> <p>Help and Support also provides automated troubleshooting and links to support specialists.</p>
	f2	Decreases the screen brightness level incrementally when you hold down this key.
	f3	Increases the screen brightness level incrementally when you hold down this key.
	f4	<p>Switches the screen image among display devices connected to the system. For example, if a monitor is connected to the computer, pressing this key alternates the screen image from computer display to monitor display to simultaneous display on both the computer and the monitor.</p> <p>Most external monitors receive video information from the computer using the external VGA video standard. The <a href="#">switch screen image</a> key can also alternate images among other devices that are receiving video information from the computer.</p>
	f5	<ul style="list-style-type: none"> <li>When the computer is off or in Hibernation, opens HP QuickWeb.</li> <li>When the computer is in Microsoft Windows, opens the default Web browser.</li> <li>When the computer is in HP QuickWeb, opens the default Web browser.</li> </ul> <p><b>NOTE:</b> If your computer does not have HP QuickWeb software, the key does not perform any action or function.</p>
	f6	Plays the previous track of an audio CD or the previous section of a DVD or a BD.
	f7	Plays, pauses, or resumes a track of an audio CD or a section of a DVD or a BD.
	f8	Plays the next track of an audio CD or the next section of a DVD or a BD.
	f9	Decreases speaker volume incrementally when you hold down this key.
	f10	Increases speaker volume incrementally when you hold down this key.

Icon	Key	Description
	f11	Mutes or restores speaker sound.
	f12	Turns the wireless feature on or off. <b>NOTE:</b> This key does not establish a wireless connection. To establish a wireless connection, a wireless network must also be set up.

## Using pointing devices

 **NOTE:** In addition to the pointing devices included with your computer, you can use an external USB mouse (purchased separately) by connecting it to one of the USB ports on the computer.

### Setting pointing device preferences

Use Mouse Properties in Windows® to customize settings for pointing devices, such as button configuration, click speed, and pointer options.

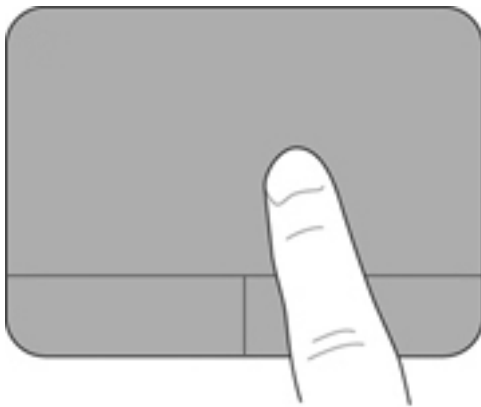
To access Mouse Properties, select **Start > Devices and Printers**. Then right-click the device representing your computer, and select **Mouse settings**.

### Using the TouchPad

To move the pointer, slide one finger across the TouchPad in the direction you want the pointer to go. Use the left and right TouchPad buttons like the buttons on an external mouse.

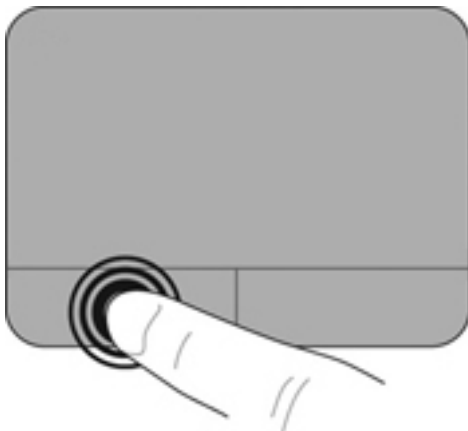
#### Navigating

To move the pointer, slide one finger across the TouchPad in the direction you want the pointer to go.



#### Selecting


Use the TouchPad button like the left and right buttons on an external mouse.



## Using TouchPad gestures


The TouchPad supports a variety of gestures. To use TouchPad gestures, place two fingers on the TouchPad at the same time.

---


 **NOTE:** TouchPad gestures are not supported in all programs.

---

To view the demonstration of a gesture:

1. Click the **Show hidden icons** icon in the notification area, at the far right of the taskbar.
2. Right-click the **Synaptics Pointing Device** icon , and then click **TouchPad Properties**.
3. Click a gesture to activate the demonstration.


To turn the gestures on and off:

1. Click the **Show hidden icons** icon in the notification area, at the far right of the taskbar.
2. Right-click the **Synaptics Pointing Device** icon , and then click **TouchPad Properties**.
3. Select the check box next to the gesture that you want to turn on or off.
4. Click **Apply**, and then click **OK**.

## Scrolling

Scrolling is useful for moving up, down, or sideways on a page or image. To scroll, place two fingers slightly apart on the TouchPad, and then drag them across the TouchPad in an up, down, left, or right motion.

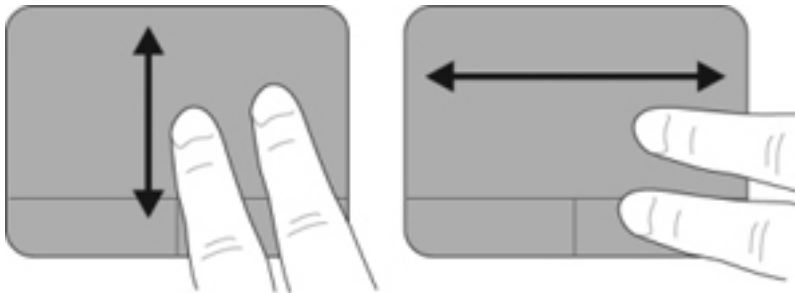
---

 **NOTE:** Scrolling speed is controlled by finger speed.

---

**NOTE:** Two-finger scrolling is enabled at the factory.

---




## Pinching/Zooming

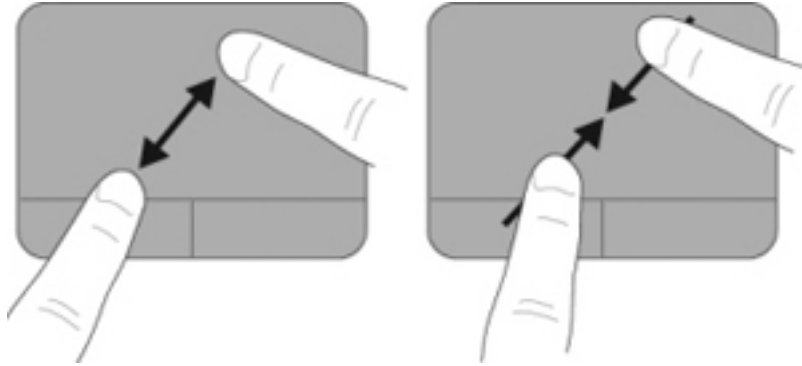
Pinching allows you to zoom in or out on images or text.

- Zoom in by placing two fingers together on the TouchPad, and then moving them apart.
- Zoom out by placing two fingers apart on the TouchPad, and then moving them together.

---

 **NOTE:** Pinching/zooming is enabled at the factory.


---



## Rotating

Rotating allows you to rotate items such as photos. To rotate, anchor your left forefinger in the TouchPad zone. Move the right forefinger around the anchored finger in a sweeping motion, moving from 12 o'clock to 3 o'clock. To reverse the rotation, move your right forefinger from 3 o'clock to 12 o'clock.

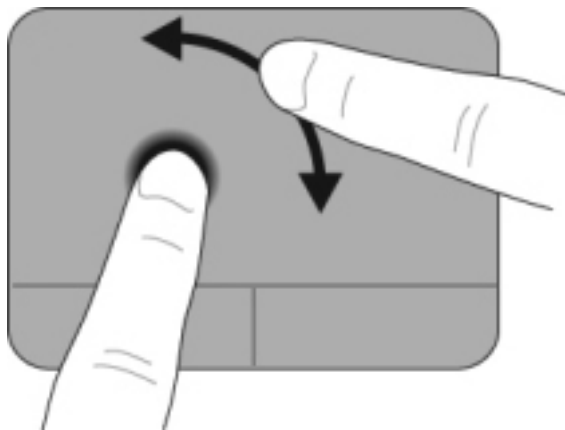
---

 **NOTE:** Rotating must be done within the TouchPad zone.

---

**NOTE:** Rotating is disabled at the factory.

---



---

## 6 Maintenance

- [Replacing the battery](#)
- [Removing or replacing the vanity cover](#)
- [Replacing the hard drive](#)
- [Replacing the memory module](#)

# Replacing the battery

## Inserting the battery

To insert the battery:

1. Save your work and shut down the computer.
2. Disconnect all external devices connected to the computer.
3. Unplug the power cord from the AC outlet.
4. With the display closed, position the computer upside down on a flat surface, with the battery bay toward you.
5. Insert the battery (1) into the battery bay until the battery release latch (2) snaps into place.
6. Slide the battery locking latch (3) to the right to lock the battery into the battery bay.





## Removing the battery

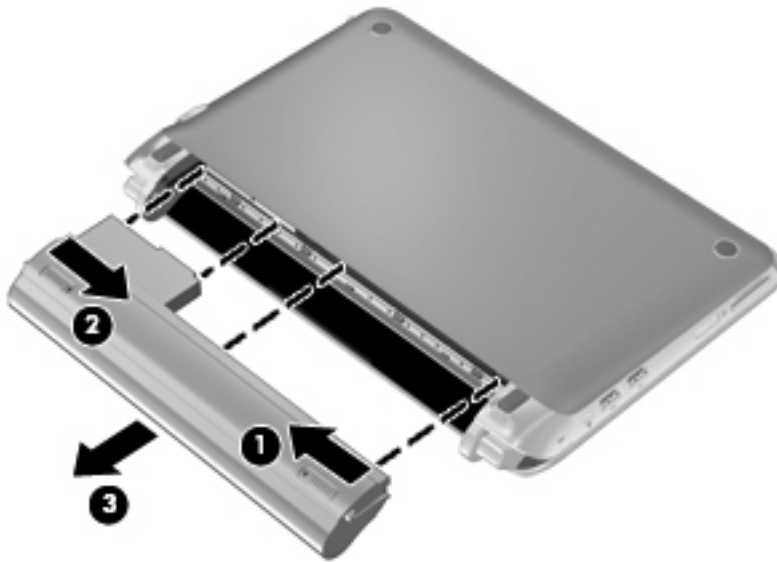
To remove the battery:

**CAUTION:** Removing a battery that is the sole power source for the computer can cause loss of information. To prevent loss of information, save your work and initiate Hibernation or shut down the computer through Windows before removing the battery.

1. Save your work and shut down the computer.
2. Disconnect all external devices connected to the computer.
3. Unplug the power cord from the AC outlet.
4. With the display closed, position the computer upside down on a flat surface, with the battery bay toward you.
5. Slide the battery locking latch **(1)** to the left to unlock the battery.

**NOTE:** You can identify when the battery locking latch is unlocked by the red icon that appears in the latch.

6. Slide and hold the battery release latch **(2)** while removing the battery **(3)** from the battery bay.



## Removing or replacing the vanity cover

**⚠ CAUTION:** To prevent information loss or an unresponsive system:

Save your work and shut down the computer before adding or replacing a memory module or hard drive.

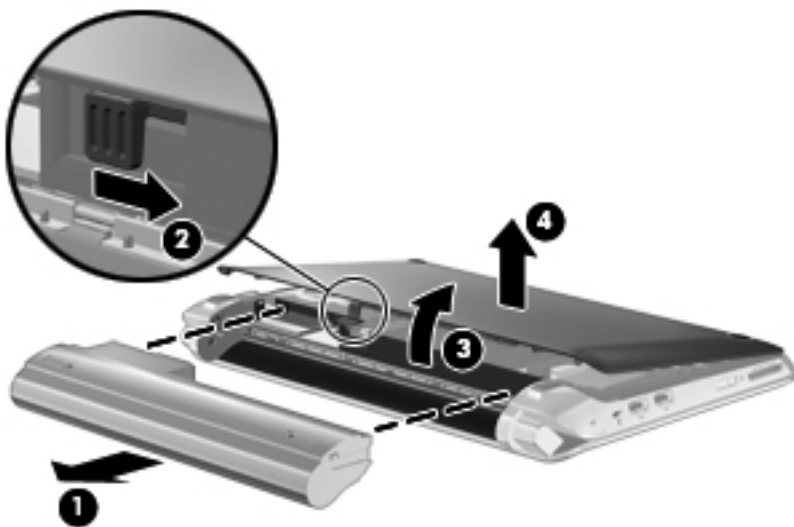
If you are not sure whether the computer is off or in Hibernation, turn the computer on by sliding the power switch. Then shut down the computer through the operating system.

### Removing the vanity cover

Remove the vanity cover to access the memory module slot, hard drive, regulatory label, and other components.

To remove the vanity cover:

1. Remove the battery (1) (refer to [Removing the battery on page 25](#)).
2. Slide the release latch (2) to the right to release the vanity cover.
3. Lift the back edge (3) of the vanity cover, and then remove the cover (4) from the computer.



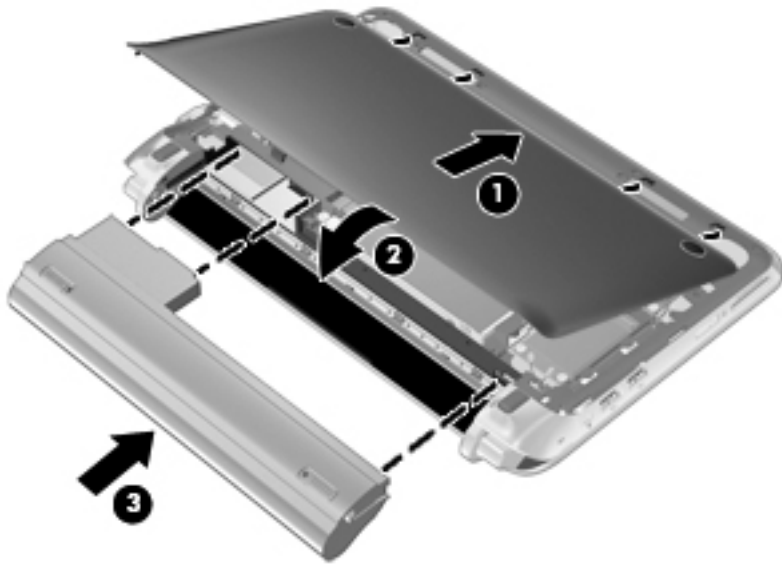
### Replacing the vanity cover

Replace the vanity cover after accessing the memory module slot, hard drive, regulatory label, and other components.

To replace the vanity cover:

1. Insert the 4 tabs on the front edge of the vanity cover (1) into the 4 slots in the base.
2. Rotate the back edge (2) of the vanity cover downward, and then firmly press the cover down until it snaps into place.

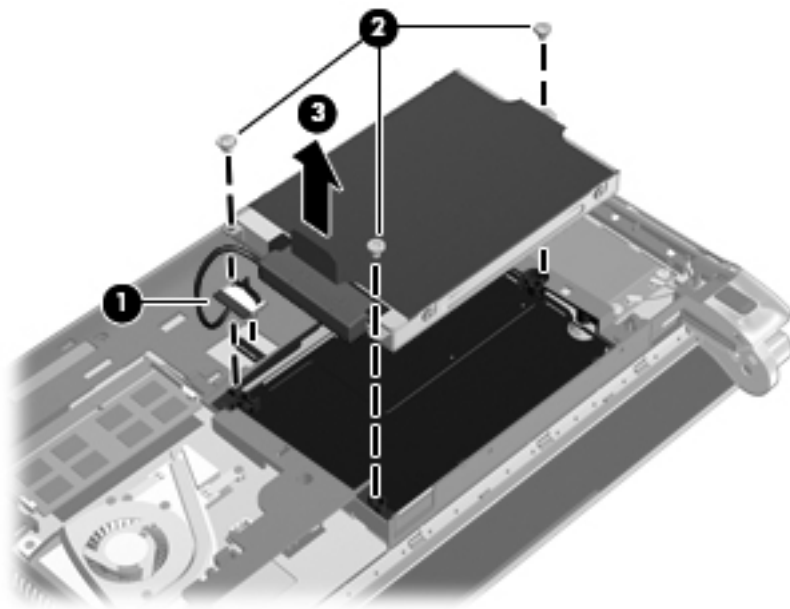
3. Replace the battery (3) (refer to [Inserting the battery on page 24](#)).



# Replacing the hard drive

## Removing the hard drive

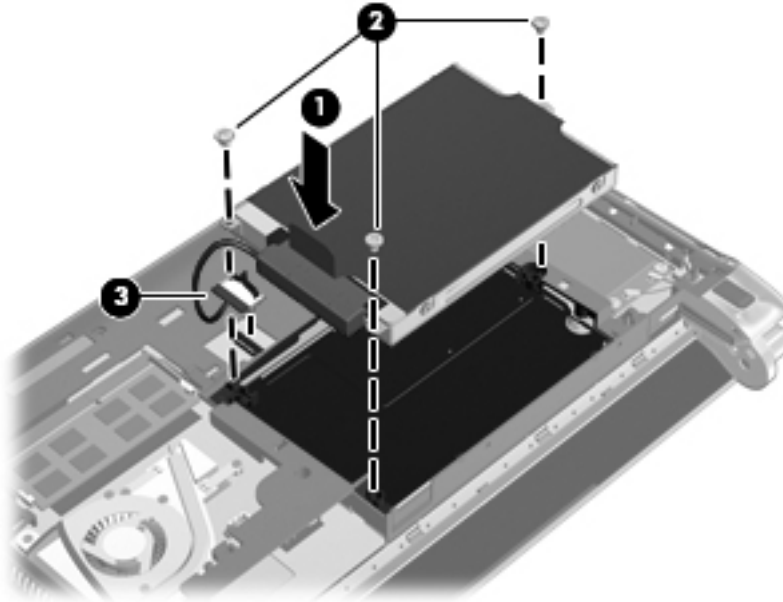
1. Save your work and shut down the computer.
2. Disconnect all external devices connected to the computer.
3. Unplug the power cord from the AC outlet.
4. Remove the battery (refer to [Removing the battery on page 25](#)).
5. Remove the vanity cover (refer to [Removing the vanity cover on page 26](#)).
6. Grasp the tab on the hard drive cable connector (1), and then pull it up to disconnect the hard drive cable connector from the system board.
7. Carefully remove the hard drive cable from the cable routing channel.
8. Remove the 3 hard drive screws (2).
9. Grasp the tab on the hard drive, and lift the hard drive (3) out of the hard drive bay.



## Installing a hard drive

1. Grasp the tab on the hard drive, and lower the hard drive (1) into the hard drive bay.
2. Replace the 3 hard drive screws (2).
3. Insert the hard drive cable into the cable routing channel.

4. Grasp the tab on the hard drive cable connector (3), and then carefully press the hard drive cable connector onto the system board until it snaps into place.



5. Replace the vanity cover (refer to [Replacing the vanity cover on page 26](#)).
6. Replace the battery (refer to [Inserting the battery on page 24](#)).
7. Reconnect external power and external devices.
8. Turn on the computer.

## Replacing the memory module

The computer has one memory module slot. The capacity of the computer can be upgraded by replacing the existing memory module in the memory module slot.

**⚠ WARNING!** To reduce the risk of electric shock and damage to the equipment, unplug the power cord and remove all batteries before installing a memory module.

**⚠ CAUTION:** Electrostatic discharge (ESD) can damage electronic components. Before beginning any procedure, ensure that you are discharged of static electricity by touching a grounded metal object.

To replace the memory module:

1. Remove the battery (refer to [Removing the battery on page 25](#)).
2. Remove the vanity cover (refer to [Removing the vanity cover on page 26](#)).
3. Remove the existing memory module:
  - a. Pull away the retention clips (1) on each side of the memory module.

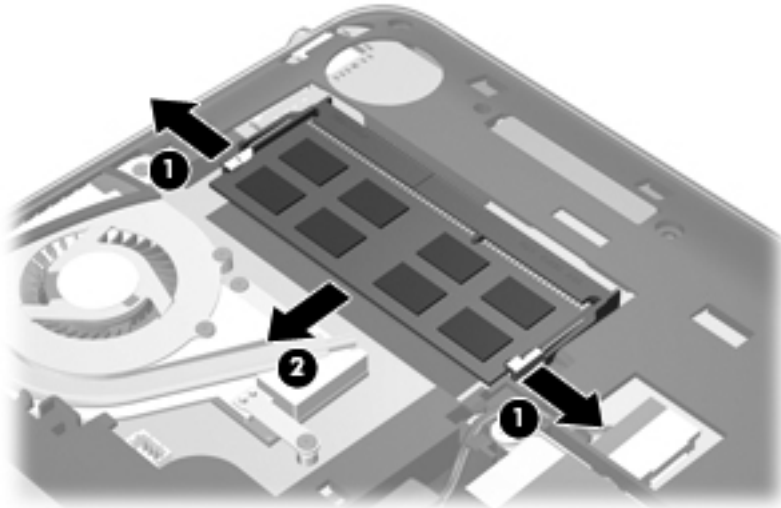
The memory module tilts up.

- b. Grasp the edge of the memory module **(2)**, and then gently pull the memory module out of the memory module slot.

---

**⚠ CAUTION:** To prevent damage to the memory module, hold the memory module by the edges only. Do not touch the components on the memory module.

---



- c. To protect a memory module after removal, place it in an electrostatic-safe container.

**4.** Insert a new memory module:

---

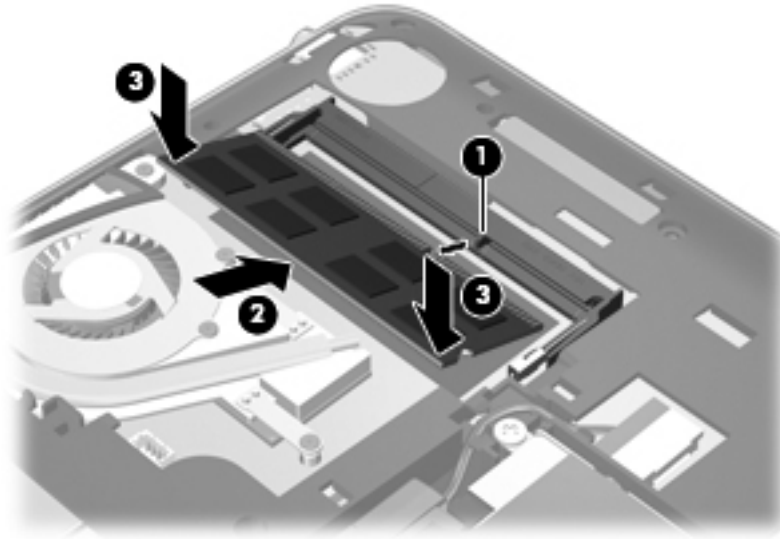
**⚠ CAUTION:** To prevent damage to the memory module, hold the memory module by the edges only. Do not touch the components on the memory module.

---

- a. Align the notched edge **(1)** of the memory module with the tab in the memory module slot.
- b. With the memory module at a 45-degree angle from the surface of the memory module compartment, press the module **(2)** into the memory module slot until it is seated.

- c. Gently press the memory module **(3)** down, applying pressure to both the left and right edges of the memory module, until the retention clips snap into place.

**⚠ CAUTION:** To prevent damage to the memory module, be sure that you do not bend the memory module.



5. Replace the vanity cover (refer to [Replacing the vanity cover on page 26](#)).
6. Replace the battery (refer to [Inserting the battery on page 24](#)).
7. Reconnect external power and external devices.
8. Turn on the computer.

---

# 7 Backup and recovery

- [Restore](#)
- [Creating restore media](#)
- [Performing a system restore](#)
- [Backing up your information](#)

Your computer includes tools provided by the operating system and HP to help you safeguard your information and restore it if ever needed.

This chapter provides information on the following topics:


- Creating a set of recovery discs or a recovery flash drive (HP Recovery Manager software feature)
- Performing a system restore (from the partition, recovery discs, or a recovery flash drive)
- Backing up your information
- Recovering a program or driver


## Restore

In the event of hard drive failure, to restore your system to its factory image you will need a set of recovery discs or a recovery flash drive that you can create using HP Recovery Manager. HP recommends that you use this software to create either a set of recovery discs or a recovery flash drive immediately after software setup.

If for some other reason you need to restore your system, this can be achieved using the HP Recovery partition (select models only), without the need for recovery discs or a recovery flash drive. To check for the presence of a recovery partition, click **Start**, right-click **Computer**, click **Manage**, and then click **Disk Management**. If the recovery partition is present, a Recovery drive is listed in the window.

---

 **CAUTION:** HP Recovery Manager (partition or discs/flash drive) restores only software that was preinstalled at the factory. Software not provided with this computer must be reinstalled manually.

 **NOTE:** Recovery discs have been included if your computer does not have a recovery partition.


---



## Creating restore media

HP recommends that you create either a set of recovery discs or a recovery flash drive to be sure that you can restore your computer to its original factory state if the hard drive fails, or if for any reason you cannot restore using the recovery partition tools. Create these discs or the flash drive after setting up the computer for the first time.

---

 **NOTE:** HP Recovery Manager allows the creation of only one set of recovery discs or one recovery flash drive. Handle these discs or the flash drive carefully and keep them in a safe place.

---


**NOTE:** If your computer does not include an integrated optical drive, you can use an optional external optical drive (purchased separately) to create recovery discs, or you can purchase recovery discs for your computer from the HP Web site. If you use an external optical drive, it must be connected directly to a USB port on the computer, not to a USB port on an external device, such as a USB hub.

---

Guidelines:

- Purchase high-quality DVD-R, DVD+R, DVD-R DL, or DVD+R DL discs.


---

 **NOTE:** Read-write discs, such as CD-RW, DVD±RW, and double-layer DVD±RW, are not compatible with the HP Recovery Manager software.

---

- The computer must be connected to AC power during this process.
- Only one set of recovery discs or one recovery flash drive can be created per computer.

---

 **NOTE:** If you are creating recovery discs, number each disc before inserting it into the optical drive.

---

- If necessary, you can exit the program before you have finished creating the recovery discs or recovery flash drive. The next time you open HP Recovery Manager, you will be prompted to continue the backup creation process.


To create a set of recovery discs or a recovery flash drive:

1. Select **Start > All Programs > HP > HP Recovery Manager > HP Recovery Media Creation**.
2. Follow the on-screen instructions.

## Performing a system restore

HP Recovery Manager software allows you to repair or restore the computer to its original factory state. HP Recovery Manager works from recovery discs or a recovery flash drive, or from a dedicated recovery partition (select models only) on the hard drive.

---

 **NOTE:** A system restore needs to be performed if the computer hard drive has failed or if all attempts to correct any functional computer issues fail. A system restore should be used as a final attempt to correct computer issues.

---

Note the following when performing a system restore:

- You can restore only the system that you have previously backed up. HP recommends that you use Recovery Manager to create either a set of recovery discs or a recovery flash drive as soon as you set up the computer.
- Windows has its own built-in repair features, such as System Restore. If you have not already tried these features, try them before using HP Recovery Manager.
- HP Recovery Manager restores only software that was preinstalled at the factory. Software not provided with this computer must be downloaded from the manufacturer's Web site or reinstalled from the disc provided by the manufacturer.

## Restoring using the dedicated recovery partition (select models only)

When using the dedicated recovery partition, there is an option to back up pictures, music and other audio, videos and movies, recorded TV shows, documents, spreadsheets and presentations, e-mails, and Internet favorites and settings during this process.

To restore the computer from the recovery partition, follow these steps:

1. Access HP Recovery Manager in either of the following ways:
  - Select **Start > All Programs > HP > HP Recovery Manager > HP Recovery Manager**.
  - or –
  - Turn on or restart the computer, and then press **esc** while the “Press the ESC key for Startup Menu” message is displayed at the bottom of the screen. Then, press **f11** while the “F11 (System Recovery)” message is displayed on the screen.
2. Click **System Recovery** in the HP Recovery Manager window.
3. Follow the on-screen instructions.


## Restoring using the restore media

1. If possible, back up all personal files.
2. Insert the first recovery disc into the optical drive on your computer or an optional external optical drive, and then restart the computer.

– or –

Insert the recovery flash drive into a USB port on your computer, and then restart the computer.

---

 **NOTE:** If the computer does not automatically restart in HP Recovery Manager, the computer boot order needs to be changed.

---

3. Press **f9** at system bootup.
4. Select the optical drive or the flash drive.
5. Follow the on-screen instructions.

## Changing the computer boot order

To change the boot order for recovery discs:

1. Restart the computer.
2. Press `esc` while the computer is restarting, and then press `f9` for boot options.
3. Select **Internal CD/DVD ROM Drive** from the boot options window.

To change the boot order for a recovery flash drive:

1. Insert the flash drive into a USB port.
2. Restart the computer.
3. Press `esc` while the computer is restarting, and then press `f9` for boot options.
4. Select the flash drive from the boot options window.

## Backing up your information

You should back up your computer files on a regular schedule to maintain a current backup. You can back up your information to an optional external hard drive, a network drive, or discs. Back up your system at the following times:

- At regularly scheduled times



---

**NOTE:** Set reminders to back up your information periodically.

---

- Before the computer is repaired or restored
- Before you add or modify hardware or software

Guidelines:

- Create system restore points using the Windows System Restore feature, and periodically copy them to an optical disc or an external hard drive. For more information on using system restore points, refer to [Using Windows system restore points on page 36](#).
- Store personal files in the Documents library and back up this folder periodically.
- Save customized settings in a window, toolbar, or menu bar by taking a screen shot of your settings. The screen shot can be a time-saver if you have to reset your preferences.

## Using Windows Backup and Restore

Windows Backup and Restore allows you to back up individual files or back up the entire computer image.

Guidelines:

- Be sure that the computer is connected to AC power before you start the backup process.
- Allow enough time to complete the backup process. Depending on file sizes, it may take over an hour.

To create a backup:

1. Select **Start > Control Panel > System and Security > Backup and Restore**.
2. Follow the on-screen instructions to schedule and create a backup.



---

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

---

## Using Windows system restore points

A system restore point allows you to save and name 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.



---

**NOTE:** Recovering to an earlier restore point does not affect data files saved or e-mails created since the last restore point.

---

You also can create additional restore points to provide increased protection for your files and settings.

## When to create restore points

- Before you add or modify software or hardware
- Periodically, whenever the computer is functioning optimally



**NOTE:** If you revert to a restore point and then change your mind, you can reverse the restoration.

---

## Create a system restore point

1. Select **Start > Control Panel > System and Security > System**.
2. In the left pane, click **System Protection**.
3. Click the **System Protection** tab.
4. Follow the on-screen instructions.

## Restore to a previous date and time

To revert to a restore point (created at a previous date and time), when the computer was functioning optimally, follow these steps:

1. Select **Start > Control Panel > System and Security > System**.
2. In the left pane, click **System Protection**.
3. Click the **System Protection** tab.
4. Click **System Restore**.
5. Follow the on-screen instructions.

---

# 8 Customer support

- [Contacting customer support](#)
- [Labels](#)

## Contacting customer support

If the information provided in this user guide, in the *HP Notebook Reference Guide*, or in Help and Support does not address your questions, you can contact HP Customer Support at:

<http://www.hp.com/go/contactHP>

---


 **NOTE:** For worldwide support, click **Contact HP worldwide** on the left side of the page, or go to [http://welcome.hp.com/country/us/en/wwcontact\\_us.html](http://welcome.hp.com/country/us/en/wwcontact_us.html).

---

Here you can:

- Chat online with an HP technician.

---

 **NOTE:** When technical support chat is not available in a particular language, it is available in English.

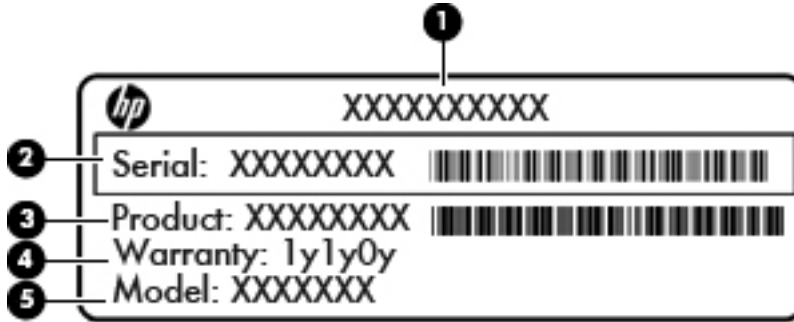
---

- E-mail HP Customer Support.
- Find HP Customer Support worldwide telephone numbers.
- Locate an HP service center.

# Labels

The labels affixed to the computer provide information you may need when you troubleshoot system problems or travel internationally with the computer:

- Serial number label—Provides important information, including the following:



---

### Component

---

(1)	Product name
(2)	Serial number (s/n)
(3)	Part number/Product number (p/n)
(4)	Warranty period
(5)	Model description

---

Have this information available when you contact technical support. The serial number label is affixed inside the battery bay.

- Microsoft Certificate of Authenticity—Contains the Windows Product Key. You may need the Product Key to update or troubleshoot the operating system. The Microsoft Certificate of Authenticity is located under the vanity cover of the computer.
- Regulatory label—Provides regulatory information about the computer. The regulatory label is located under the vanity cover of the computer.
- Wireless certification label or labels (select models only)—Provide information about optional wireless devices and the approval markings of some of the countries or regions in which the devices have been approved for use. If your computer model includes one or more wireless devices, one or more certification labels are included with your computer. You may need this information when traveling internationally. Wireless certification labels are located under the vanity cover of the computer.
- SIM (subscriber identity module) label (select models only)—Provides the ICCID (Integrated Circuit Card Identifier) of the SIM. This label is located inside the battery bay.
- HP Mobile Broadband Module serial number label (select models only)—Provides the serial number of the HP Mobile Broadband Module. This label is located inside the battery bay.

---

# 9 Specifications

- [Input power](#)
- [Operating environment](#)


## Input power

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

The computer operates on DC power, which can be supplied by an AC or a DC power source. The AC power source must be rated at 100–240 V, 50–60 Hz. Although the computer can be powered from a standalone DC power source, it should be powered only with an AC adapter or a DC power source supplied and approved by HP for use with this computer.

The computer can operate on DC power within the following specifications.

Input power	Rating
Operating voltage and current	19.5 V dc @ 2.05 A - 40 W

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

**NOTE:** The computer operating voltage and current can be found on the system regulatory label under the vanity cover of the computer.

---



## Operating environment

<b>Factor</b>	<b>Metric</b>	<b>U.S.</b>
<b>Temperature</b>		
Operating (writing to optical disc)	<b>5°C to 35°C</b>	41°F to 95°F
Nonoperating	<b>-20°C to 60°C</b>	-4°F to 140°F
<b>Relative humidity</b> (noncondensing)		
Operating	<b>10% to 90%</b>	10% to 90%
Nonoperating	<b>5% to 95%</b>	5% to 95%
<b>Maximum altitude</b> (unpressurized)		
Operating	<b>-15 m to 3,048 m</b>	-50 ft to 10,000 ft
Nonoperating	<b>-15 m to 12,192 m</b>	-50 ft to 40,000 ft

---

# Index

- A**
  - AC adapter light 9
  - action keys
    - decrease screen brightness 18
    - Help and Support 18
    - HP QuickWeb 18
    - identifying 6
    - increase screen brightness 18
    - next track 18
    - play, pause, resume 18
    - previous track 18
    - switch screen image 18
    - volume down 18
    - volume mute 19
    - volume up 18
    - wireless 19
  - audio-in (microphone) jack, identifying 9
  - audio-out (headphone) jack, identifying 9
- B**
  - backing up
    - customized window, toolbar, and menu bar settings 36
    - personal files 36
  - battery bay 11, 39
  - battery light 9
  - battery locking latch, identifying 11
  - battery release latch 11
  - battery, replacing 24
  - Bluetooth label 39
- C**
  - caps lock light, identifying 5
  - Certificate of Authenticity label 39
- components
  - bottom 11
  - display 10
  - front 6
  - left side 9
  - right side 7
  - top 4
- connector, power 9
- D**
  - Digital Media Slot, identifying 7
- E**
  - esc key, identifying 6
  - external monitor, identifying 9
- F**
  - f11 34
  - fn key, identifying 6, 17
- H**
  - hard drive
    - installing 28
    - removing 28
    - replacing 28
  - hard drive light 9
  - headphone (audio-out) jack 9
  - hotkeys, description 17
  - HP Recovery Manager 33
- I**
  - input power 40
  - integrated webcam light, identifying 10
  - internal microphone, identifying 10
  - Internet connection setup 16
  - ISP, using 14
- J**
  - jacks
    - audio-in (microphone) 9
    - audio-out (headphone) 9
    - RJ-45 (network) 8
- K**
  - keyboard hotkeys, identifying 17
  - keys
    - action 6
    - esc 6
    - fn 6
    - Windows applications 6
    - Windows logo 6
- L**
  - labels
    - Bluetooth 39
    - HP Mobile Broadband Module 39
    - Microsoft Certificate of Authenticity 39
    - regulatory 39
    - serial number 39
    - SIM 39
    - wireless certification 39
    - WLAN 39
  - latch, battery release 11
  - left TouchPad button, identifying 4
  - lights
    - AC adapter/battery 9
    - caps lock 5
    - hard drive 9
    - mute 5
    - power 7
    - webcam 10
    - wireless 5

- M**
- memory module
  - inserting 30
  - removing 29
  - replacing 29
- microphone (audio-in) jack, identifying 9
- Microsoft Certificate of Authenticity label 39
- mouse, external
  - setting preferences 20
- mute light, identifying 5
- N**
- network jack, identifying 8
- O**
- operating environment 41
- operating system
  - Microsoft Certificate of Authenticity label 39
  - Product Key 39
- P**
- pinching TouchPad gesture 22
- pointing devices, setting preferences 20
- ports
  - external monitor 9
  - USB 7, 9
- power connector, identifying 9
- power light, identifying 7
- Product Key 39
- product name and number, computer 39
- Q**
- QuickWeb
  - Home screen 12
  - starting 12
- QuickWeb software 12
- R**
- recovering from the dedicated recovery partition 34
- recovering from the recovery discs 34
- recovery discs 33
- recovery, system 33
- regulatory information
  - regulatory label 39
  - wireless certification labels 39
- restore points 36
- right TouchPad button, identifying 4
- RJ-45 (network) jack, identifying 8
- rotating TouchPad gesture 22
- S**
- scrolling TouchPad gesture 21
- security cable slot 8
- serial number 39
- serial number, computer 39
- setup of WLAN 16
- SIM slot, identifying 11
- slots, Digital Media 7
- speakers, identifying 6
- supported discs 33
- system recovery 33
- system restore points 36
- T**
- temperature, specifications 41
- TouchPad
  - buttons 4
  - using 20
- TouchPad gestures
  - pinching 22
  - rotating 22
  - scrolling 21
  - zooming 22
- TouchPad zone, identifying 4
- traveling with the computer 39
- U**
- USB ports, identifying 7, 9
- using system restore 36
- V**
- vanity cover
  - identifying 11
  - replacing 26
- vent, identifying 9
- W**
- webcam light, identifying 10
- webcam, identifying 10
- Windows applications key, identifying 6
- Windows logo key, identifying 6
- wireless antennas, identifying 10
- wireless certification label 39
- wireless light 5
- wireless network (WLAN), equipment needed 16
- wireless network, connecting 15
- wireless router, configuring 16
- wireless setup 16
- WLAN
  - connecting 15
  - protecting 16
- WLAN antennas, identifying 10
- WLAN device 39
- WLAN label 39
- WWAN antennas, identifying 10
- Z**
- zooming TouchPad gesture 22

