

# **Notebook Tour**

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This guide explains the notebook hardware features.

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# Notebook Tour

This guide explains the hardware features of the notebook.



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Components included with your notebook may vary by geographical region and by model. The illustrations in this guide identify the standard external features included in most notebook models. Refer to the illustrations that most closely match your notebook.

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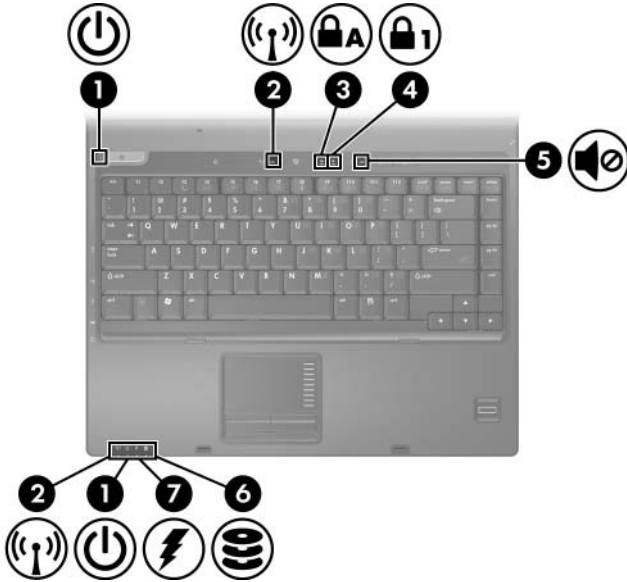
# Top Components

## Lights



Refer to the illustration that most closely matches your notebook.

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Component	Description
❶ Power/standby lights* (2)	Green: The notebook is on. Blinking green: The notebook is in standby mode. Off: The notebook is off or in hibernation.

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*(Continued)*

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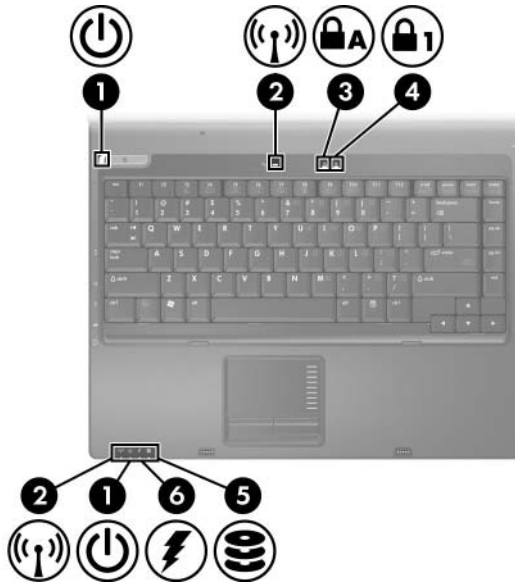
Component	Description
② Wireless lights <sup>†</sup> (2)	On: An integrated wireless device, such as a wireless local area network (LAN) device and/or a Bluetooth® device is turned on.
③ Caps lock light	On: Caps lock is on.
④ Num lock light	On: Num lock is on or the embedded numeric keypad is enabled.
⑤ Volume mute light	On: System sound is turned off.
⑥ IDE (Integrated Drive Electronics) drive light	Blinking: The hard drive or optical drive is being accessed.
⑦ Battery light	<p>Amber: A battery pack is charging.</p> <p>Green: A battery pack is close to full charge capacity.</p> <p>Blinking amber: A battery pack that is the only available power source has reached a low-battery condition. When the battery reaches a <i>critical</i> low-battery condition, the battery light begins blinking more quickly.</p> <p>Off: If the notebook is connected to an external power source, the light is turned off when all batteries in the notebook are fully charged. If the notebook is not connected to an external power source, the light is turned off until the battery reaches a low-battery condition.</p>

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\*There are 2 power/standby lights. Both display the same information. The light on the power button is visible only when the notebook is open; the other power/standby light is always visible on the front of the notebook.

†There are 2 wireless lights. Both display the same information. The light on the wireless button is visible only when the notebook is open; the other wireless light is always visible on the front of the notebook.

---



Component	Description
❶ Power/standby lights* (2)	Green: The notebook is on. Blinking green: The notebook is in standby mode. Off: The notebook is off or in hibernation.
❷ Wireless lights† (2)	On: An integrated wireless device, such as a wireless LAN device and/or a Bluetooth device is turned on.
❸ Caps lock light	On: Caps lock is on.
❹ Num lock light	On: Num lock is on or the embedded numeric keypad is enabled.

*(Continued)*

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Component	Description
⑤ IDE drive light	Blinking: The hard drive or optical drive is being accessed.
⑥ Battery light	<p>Amber: A battery pack is charging.</p> <p>Green: A battery pack is close to full charge capacity.</p> <p>Blinking amber: A battery pack that is the only available power source has reached a low-battery condition. When the battery reaches a <i>critical</i> low-battery condition, the battery light begins blinking more quickly.</p> <p>Off: If the notebook is connected to an external power source, the light is turned off when all batteries in the notebook are fully charged. If the notebook is not connected to an external power source, the light is turned off until the battery reaches a low-battery condition.</p>

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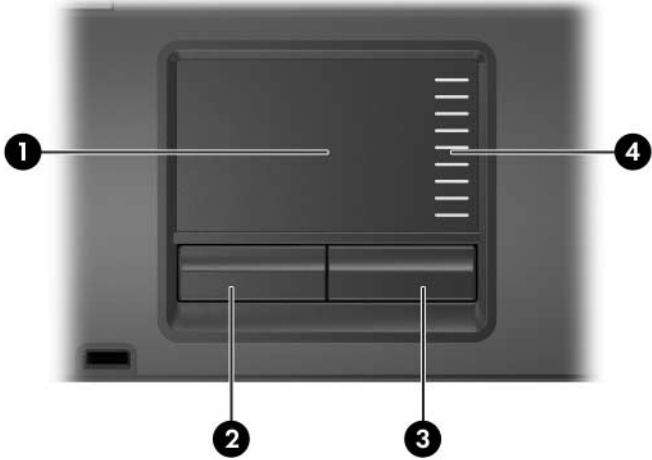
\*There are 2 power/standby lights. Both display the same information. The light on the power button is visible only when the notebook is open; the other power/standby light is always visible on the front of the notebook.

†There are 2 wireless lights. Both display the same information. The light on the wireless button is visible only when the notebook is open; the other wireless light is always visible on the front of the notebook.

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# TouchPad



Component	Description
① TouchPad*	Moves the pointer and selects or activates items on the screen. Can be set to perform other mouse functions, such as scrolling, selecting, and double-clicking.
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.
④ TouchPad scroll zone*	Scrolls upward or downward.

\*This table describes default settings. For information about changing default settings, refer to the user guides located in the Help and Support Center. Select **Start > Help and Support > User Guides**.



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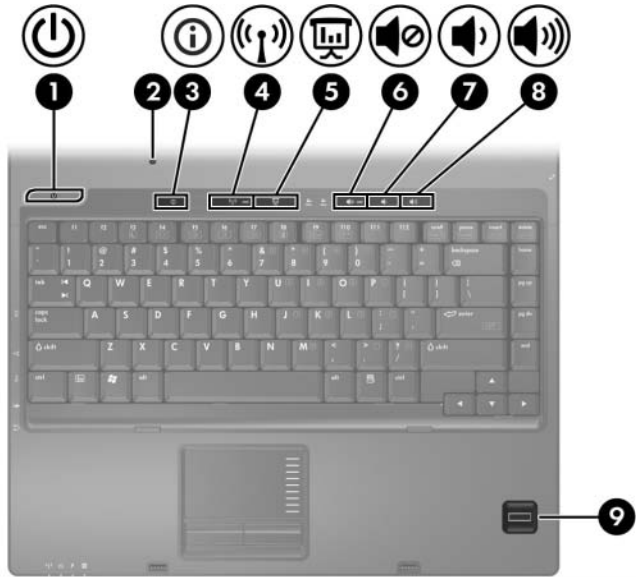
## Buttons, Switches and Readers


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Refer to the illustration that most closely matches your notebook.

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Component	Description
<p>❶ Power/standby button*</p>	<p>When the notebook is</p> <ul style="list-style-type: none"> <li>■ Off, press the button to turn on the notebook.</li> <li>■ In standby, briefly press the button to exit standby.</li> <li>■ In hibernation, briefly press the button to exit hibernation.</li> </ul> <p>If the notebook has stopped responding and Microsoft® Windows® shutdown procedures cannot be used, press the power/standby button and hold for at least 5 seconds to turn off the notebook.</p>
<p>❷ Display switch</p>	<p>Initiates standby mode if the display is closed while the notebook is turned on.</p>
<p>❸ Info Center button</p>	<p>Launches Info Center, which enables you to open the following software solutions: Altiris Local Recovery, Contact HP, Help and Support, Accessories Product Tour (Options Demo), ProtectTools Security Manager, Software Setup, System Information, and Wireless Assistant.</p>
<p>❹ Wireless button*</p>	<p>Turns the wireless functionality on or off, but does not create a wireless connection.</p> <p> To establish a wireless connection, a wireless network must already be set up. For more information about establishing a wireless connection from Windows, visit <a href="http://www.hp.com/go/wireless">http://www.hp.com/go/wireless</a>.</p>

(Continued)

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<b>Component</b>	<b>Description</b>
⑤ Presentation mode button	Turns on Presentation mode.
⑥ Volume mute button	Mutes system sound.
⑦ Volume down button	Decreases system volume.
⑧ Volume up button	Increases system volume.
⑨ Fingerprint reader	Allows a fingerprint logon to Windows instead of a password logon.


\*This table describes default settings. For information about changing default settings, refer to the user guides located in the Help and Support Center. Select **Start > Help and Support > User Guides**.



Component	Description
<p><b>1</b> Power/standby button*</p>	<p>When the notebook is</p> <ul style="list-style-type: none"> <li>■ Off, press the button to turn on the notebook.</li> <li>■ In standby, briefly press the button to exit standby.</li> <li>■ In hibernation, briefly press the button to exit hibernation.</li> </ul> <p>If the notebook has stopped responding and Microsoft Windows shutdown procedures cannot be used, press the power/standby button and hold for 5 seconds to turn off the notebook.</p>

*(Continued)*

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Component	Description
<b>2</b> Display switch	Puts the notebook in standby if the display is closed while the notebook is turned on.
<b>3</b> Wireless button*	Turns the wireless functionality on or off, but does not create a wireless connection.   To establish a wireless connection, a wireless network must already be set up. For more information about establishing a wireless connection from Windows, visit <a href="http://www.hp.com/go/wireless">http://www.hp.com/go/wireless</a> .

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\*This table describes default settings. For information about changing default settings, refer to the user guides located in the Help and Support Center. Select **Start > Help and Support > User Guides**.

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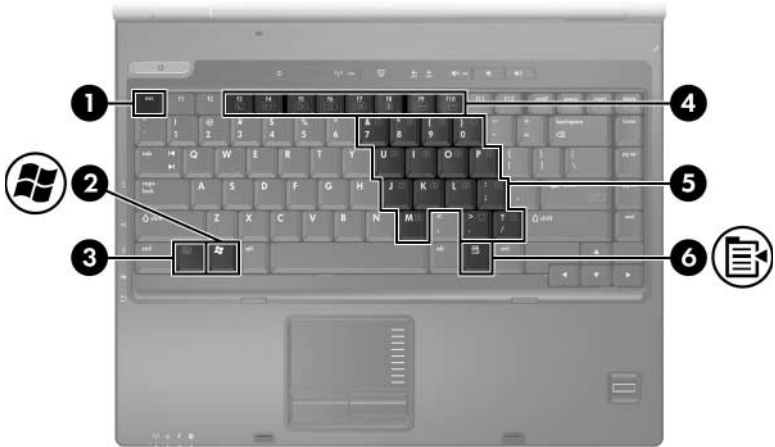
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## Keys



Your notebook may look slightly different from the illustration in this section.


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Component	Description
❶ <b>esc</b> key	Executes frequently used system functions when pressed in combination with the <b>fn</b> key.
❷ Windows logo key	Displays the Microsoft Windows Start menu.
❸ <b>fn</b> key	Executes frequently used system functions when pressed in combination with a function key or the <b>esc</b> key.

*(Continued)*

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<b>Component</b>	<b>Description</b>
④ Function keys	Execute frequently used system functions when pressed in combination with the <b>fn</b> key.   Refer to the table in “ <a href="#">Hotkey Quick Reference</a> ” for a description of each hotkey.
⑤ Embedded numeric keypad keys	Can be used like the keys on an external numeric keypad.
⑥ Windows applications key	Displays a shortcut menu for items beneath the pointer.

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# Hotkey Quick Reference

<b>Function</b>	<b>Key Combination to Activate Function</b>	<b>Key Combination to Deactivate Function</b>
Initiate standby	<b>fn+f3</b>	Power/standby button
Alternate between notebook display and external display	<b>fn+f4</b>	<b>fn+f4</b>
Mute the system sound	<b>fn+f5</b>	<b>fn+f5</b>
Decrease system sound	<b>fn+f6</b>	Not applicable
Increase system sound	<b>fn+f7</b>	Not applicable
View battery information	<b>fn+f8</b>	<b>fn+f8</b>
Decrease screen brightness	<b>fn+f9</b>	Not applicable
Increase screen brightness	<b>fn+f10</b>	Not applicable
Display system information	<b>fn+esc</b>	<b>fn+esc</b>



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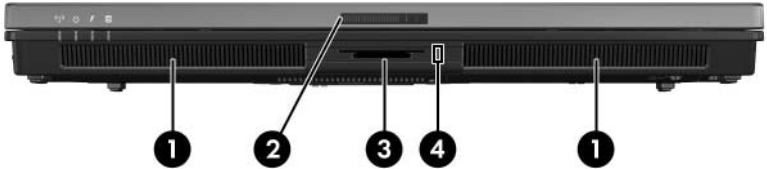
# Front Components

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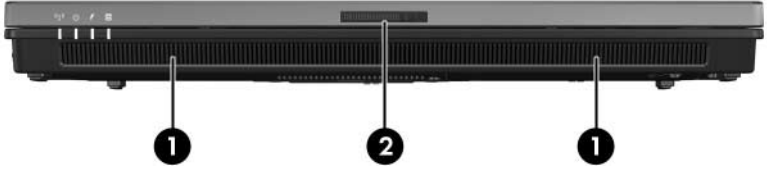
Refer to the illustration that most closely matches your notebook.

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Component	Description
❶ Speakers (2)	Produce system sound.
❷ Display release latch	Opens the notebook.
❸ 6-in-1 Digital Media Slot (select models only)	Supports 6 optional digital media card formats: SD (Secure Digital) Memory Card, MultiMediaCard, Memory Stick, Memory Stick Pro, SmartMedia card, and xD-Picture Card.
❹ 6-in-1 Digital Media Slot light (select models only)	On: Slot is accessing a digital media card.

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Component	Description
❶ Speakers (2)	Produce system sound.
❷ Display release latch	Opens the notebook.

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## Rear Components

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Refer to the illustration that most closely matches your notebook.

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Component	Description
❶ Security cable slot	Attaches an optional security cable to the notebook.  ⚠ Security solutions are designed to act as deterrents. These deterrents may not prevent a product from being mishandled or stolen.
❷ Power connector	Connects an AC adapter or an optional power adapter.

*(Continued)*

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<b>Component</b>	<b>Description</b>
③ RJ-45 (network) jack	Connects a network cable.
④ USB port	Connects USB 1.1- and 2.0-compliant devices to the notebook using a standard USB cable, or connects an optional External MultiBay II to the notebook. The MultiBay II must be connected to an external power source.
⑤ S-Video-out jack	Connects an optional S-Video device such as a television, VCR, camcorder, overhead projector, or video capture card.

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Component	Description
<b>1</b> Security cable slot	Attaches an optional security cable to the notebook.  △ Security solutions are designed to act as deterrents. These deterrents may not prevent a product from being mishandled or stolen.
<b>2</b> Power connector	Connects an AC adapter or an optional power adapter.
<b>3</b> RJ-45 (network) jack	Connects a network cable.
<b>4</b> USB port	Connects USB 1.1- and 2.0-compliant devices to the notebook using a standard USB cable, or connects an optional External MultiBay II to the notebook. The MultiBay II must be connected to an external power source.

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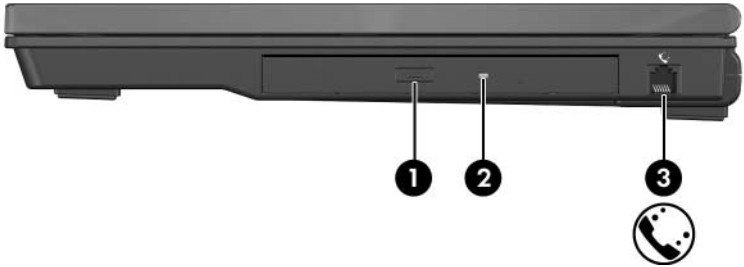
## Right-Side Components

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Your notebook may look slightly different from the illustration in this section.

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Component	Description
❶ Optical drive button	Releases the media tray.
❷ Optical drive	Reads an optical disc.
❸ RJ-11 (modem) jack	Connects a modem cable.

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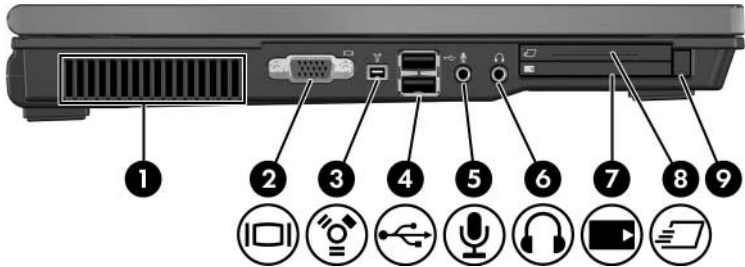
## Left-Side Components

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Your notebook may look slightly different from the illustration in this section.

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Component	Description
❶ Vent	Enables airflow to cool internal components.  ⚠ To prevent overheating, do not obstruct vents. Using the notebook on a soft surface, such as a pillow, blanket, rug, or thick clothing, may block airflow.
❷ External monitor port	Connects an external monitor.
❸ 1394 port	Connects an optional IEEE 1394 device, such as a camcorder.

*(Continued)*

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<b>Component</b>	<b>Description</b>
④ USB ports (2)	Connect USB 1.1- and 2.0-compliant devices to the notebook using a standard USB cable. Either port can also connect an optional External MultiBay II to the notebook. The MultiBay II must be connected to an external power source.
⑤ Audio-in (microphone) jack	Connects an optional headset microphone or a monaural microphone.
⑥ Audio-out (headphone) jack	Produces system sound when connected to optional powered stereo speakers, headphones, headset, or television audio.
⑦ PC Card slot	Supports optional Type I or Type II PC Cards.
⑧ ExpressCard slot (select models only)	Supports optional ExpressCard/54 or ExpressCard/34 cards.
⑨ PC Card slot eject button (1)	Ejects the PC Card from the PC Card slot.

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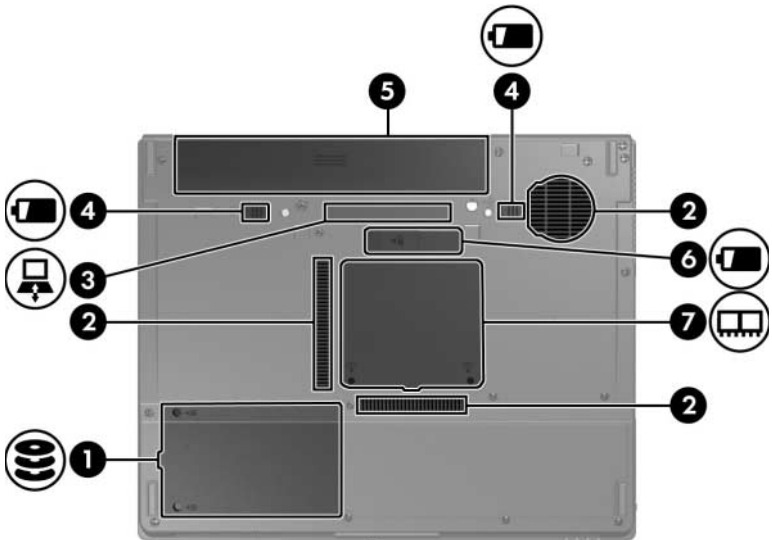
# Bottom Components

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Refer to the illustration that most closely matches your notebook.

---



Component	Description
❶ Hard drive bay	Holds the hard drive.
❷ Vents (2 or 3)*	Enable airflow to cool internal components.

△ To prevent overheating, do not obstruct vents. Using the notebook on a soft surface, such as a pillow, blanket, rug, or thick clothing, may block airflow.

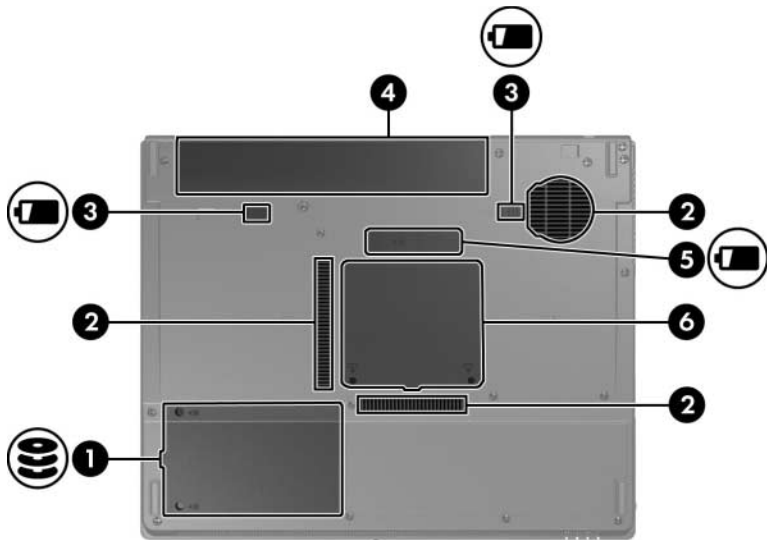
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<b>Component</b>	<b>Description</b>
③ Docking connector	Connects the notebook to an optional docking device.
④ Primary battery pack release latches (2)	Release the primary battery pack from the battery bay.
⑤ Primary battery bay	Holds the primary battery pack.
⑥ Travel battery connector	Connects an optional travel battery.
⑦ Memory module compartment	Contains the memory module slots.

\*Depending on your notebook model, the vents on the notebook may vary in number and location.

---



Component	Description
❶ Hard drive bay	Holds the hard drive.
❷ Vents (2 or 3)*	Enable airflow to cool internal components.  △ To prevent overheating, do not obstruct vents. Using the notebook on a soft surface, such as a pillow, blanket, rug, or thick clothing, may block airflow.
❸ Primary battery pack release latches (2)	Release the primary battery pack from the battery bay.

(Continued)

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<b>Component</b>	<b>Description</b>
④ Primary battery bay	Holds the primary battery pack.
⑤ Travel battery connector	Connects an optional travel battery.
⑥ Memory module compartment	Contains the memory module slots.

\*Depending on your notebook model, the vents on the notebook may vary in number and location.

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# Display Components

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Your notebook may look slightly different from the illustration in this section.

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Component	Description
❶ Display release latch	Opens the notebook.
❷ Internal microphone	Records sound.

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## Wireless Antennae (Select Models Only)

On select notebook models, there are 2 wireless antennae that send and receive wireless device signals. They are not visible from the outside of the notebook.

For wireless regulatory notices in your region, refer to the *Regulatory, Safety and Environmental Notices* guide located in the Help and Support Center. Select **Start > Help and Support > User Guides**.



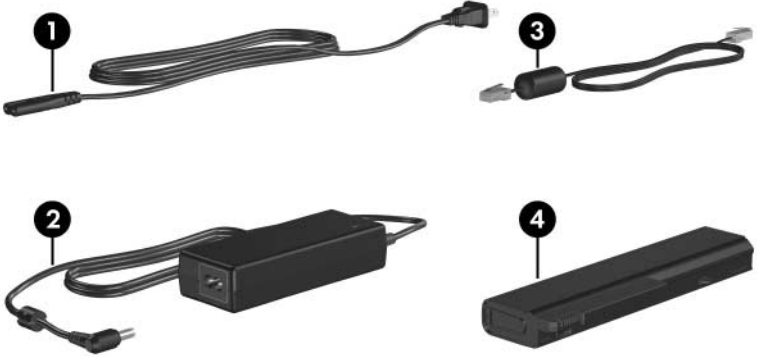
Your notebook may look slightly different from the illustration in this section.

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# Additional Hardware Components



Component	Description
❶ Power cord*	Connects an AC adapter to an AC outlet.
❷ AC adapter	Converts AC power to DC power.
❸ Modem cable*	Connects an internal modem to an RJ-11 telephone jack or to a country-specific modem adapter.
❹ Primary battery pack*	Powers the notebook when the notebook is not connected to external power.

\*Modem cables, battery packs, and power cords vary in appearance by region and country.

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## Labels

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

- **Service Tag**—Provides the product name, product number (P/N), and serial number (S/N) of your notebook. You may need the product number and the serial number when you contact Customer Care. The Service Tag label is affixed to the bottom of the notebook. The information on the Service Tag is also available through **Start > Help and Support**.
- **Microsoft Certificate of Authenticity**—Contains the Microsoft Windows Product Key. You may need the Product Key to update or troubleshoot the operating system. This certificate is affixed to the bottom of the notebook.
- **Regulatory label**—Provides regulatory information about the notebook. The Regulatory label is affixed to the bottom of the notebook.
- **Modem Approval label**—Provides regulatory information about the modem and lists the agency approval markings required by some of the countries in which the modem has been approved for use. You may need this information when traveling internationally. The Modem Approval label is affixed to the bottom of the notebook.
- **Wireless certification labels**—Some notebook models include an optional wireless local area network (WLAN) device and/or an optional Bluetooth® device. If your notebook model includes one or more wireless devices, a certificate is included with your notebook. It provides regulatory information about each device and the approval markings of some of the countries in which the device has been approved for use. You may need this information when traveling internationally. Wireless certification labels are affixed to the bottom of the notebook.



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# Specifications

## Operating Environment

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

<b>Factor</b>	<b>Metric</b>	<b>U.S.</b>
<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 (noncondensing)</b>		
Operating	10% to 90%	10% to 90%
Nonoperating	5% to 95%	5% to 95%
<b>Maximum altitude (unpressurized)</b>		
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

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## Rated Input Power

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

The notebook operates on DC power, which can be supplied by an AC or a DC power source. Although the notebook can be powered from a stand-alone DC power source, it is strongly recommended that the notebook be powered only with an AC adapter or a DC power cord supplied by or approved by HP.

The notebook 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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