

Notebook Tour

User Guide

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Product notice

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

Safety warning notice

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- ⚠ **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 contact 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).
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1 Identifying hardware

To see a list of hardware installed in the computer:

▲ Select **Start > Computer > System and Security > Device Manager**.

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

 **NOTE:** 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 software, running utilities, or changing Windows settings. Refer to Help and support more information.

2 Components

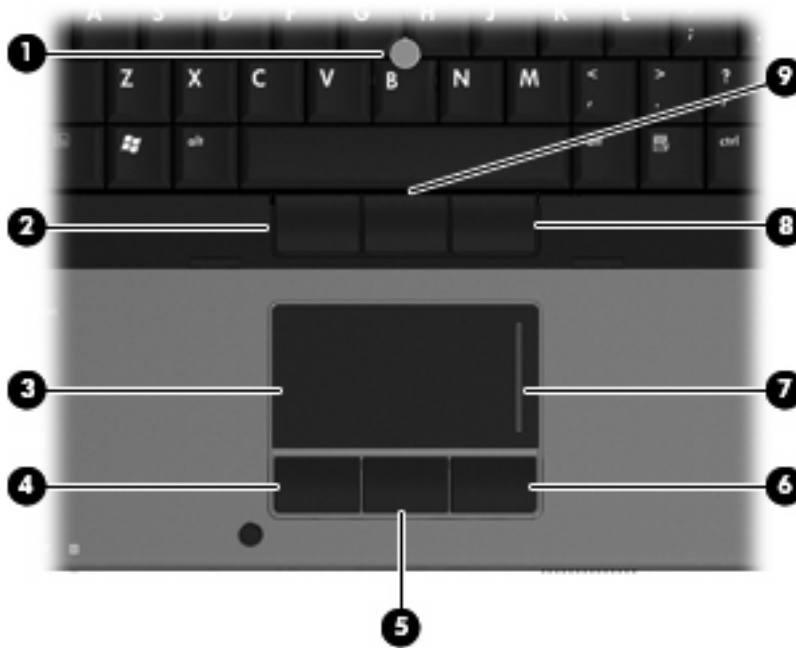
Display



Component	Description
(1) Internal display switch	Turns off the display if the display is closed while the power is on.
(2) Internal microphones (2)	Record sound.
(3) Webcam light	On: The webcam is in use.
(4) Webcam	Records audio and video and captures still photographs.
(5) Ambient light sensor	Automatically adjusts the display brightness based on the lighting conditions in your environment.

Top components

Pointing devices



Component	Description
(1) Pointing stick*	Moves the pointer and selects or activates items on the screen.
(2) Left pointing stick button*	Functions like the left button on an external mouse.
(3) TouchPad*	Moves the pointer and selects or activates items on the screen.
(4) Left TouchPad button*	Functions like the left button on an external mouse.
(5) Center TouchPad button*	Functions like the center button on an external mouse.
(6) Right TouchPad button*	Functions like the right button on an external mouse.
(7) TouchPad scroll zone	Scrolls up or down.
(8) Right pointing stick button*	Functions like the right button on an external mouse.
(9) Center pointing stick button*	Functions like the center button on an external mouse.

*This table describes factory settings. To view or change pointing device preferences, select **Start > Devices and Printers**. Then, right-click the device representing your computer, and select **Mouse** settings.

Lights



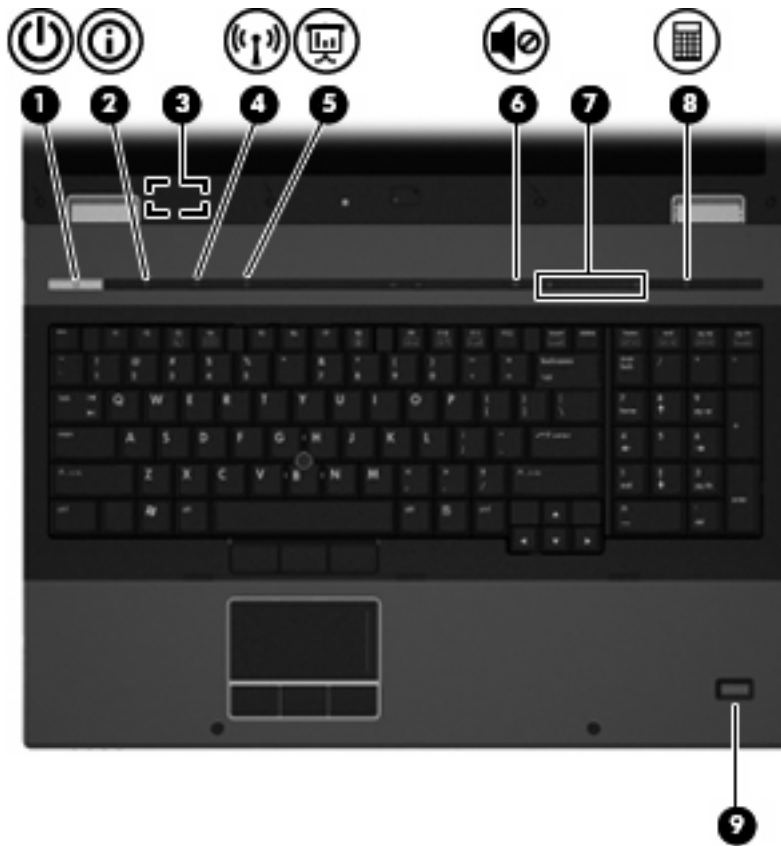
Component	Description
(1) Power lights (2)*	<ul style="list-style-type: none"> On: The computer is on. Blinking: The computer is in the Sleep state. Off: The computer is off or in Hibernation.
(2) Wireless lights (2)*	<ul style="list-style-type: none"> On: An integrated wireless device, such as a wireless local area network (WLAN) device and/or a Bluetooth® device, is on. Amber: All wireless devices are off.
(3) Caps lock light	On: Caps lock is on.
(4) Num lock light	On: Num lock is on.
(5) Volume mute light	<ul style="list-style-type: none"> On: Computer sound is on. Amber: Computer sound is off.
(6) Volume down light	Blinking: The volume scroll zone is being used to decrease speaker volume.
(7) Volume up light	Blinking: The volume scroll zone is being used to increase speaker volume.
(8) Calculator light	On: The Windows calculator function is on.

Component	Description
(9) Battery light	<ul style="list-style-type: none"> • Amber: A battery is charging. • Turquoise: A battery is close to full charge capacity. • Blinking amber: A battery that is the only available power source has reached a low battery level. When the battery reaches a critical battery level, the battery light begins blinking rapidly. • Off: If the computer is plugged into an external power source, the light turns off when all batteries in the computer are fully charged. If the computer is not plugged into an external power source, the light stays off until the battery reaches a low battery level.
(10) Drive light	<ul style="list-style-type: none"> • Blinking: The hard drive or optical drive is being accessed. • Amber: HP 3D DriveGuard has temporarily parked the hard drive.

*The 2 power lights display the same information. The light on the power button is visible only when the computer is open. The power light on the front of the computer is visible whether the computer is open or closed.

†The 2 wireless lights display the same information. The light on the wireless button is visible only when the computer is open. The wireless light on the front of the computer is visible whether the computer is open or closed.


Buttons, switches, and fingerprint reader

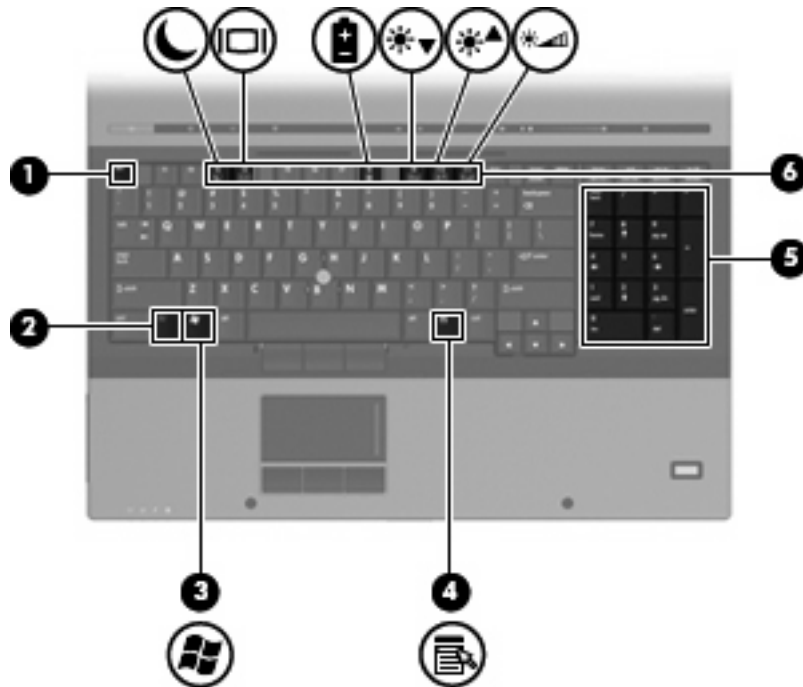


Component	Description
(1) Power button	<ul style="list-style-type: none"> When the computer is off, press the button to turn on the computer. When the computer is on, press the button to shut down the computer. When the computer is in the Sleep state, press the button briefly to exit Sleep. When the computer is in Hibernation, press the button briefly to exit Hibernation. <p>If the computer has stopped responding and Windows shutdown procedures are ineffective, press and hold the power button for at least 5 seconds to turn off the computer.</p> <p>To learn more about your power settings, select Start > Control Panel > System and Security > Power Options.</p>
(2) Info button	Launches Info Center, which enables you to open various software solutions.
(3) Internal display switch	Turns off the display if the display is closed while the power is on.
(4) Wireless button	Turns the wireless feature on or off but does not establish a wireless connection.

Component	Description
(5) Presentation button	Starts the presentation feature.
(6) Volume mute button	Mutes and restores speaker sound.
(7) Volume scroll zone	Adjusts speaker volume. Slide your finger to the left to decrease volume and to the right to increase volume. You can also press the left side of the volume slider to decrease volume, or press the right side of the volume slider to increase volume.
(8) Calculator button	Turns on the Windows calculator function.
(9) Fingerprint reader	Allows a fingerprint logon to Windows instead of a password logon.

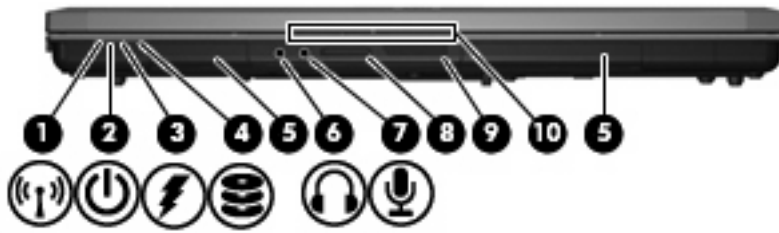
Keys

 **NOTE:** Your computer may look slightly different from the illustration in this section.



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	Executes frequently used system functions when pressed in combination with a function key or 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) Integrated numeric keypad keys	Can be used like the keys on an external numeric keypad.
(6) Function keys	Execute frequently used system functions when pressed in combination with the <code>fn</code> key.

Front components




Component	Description
(1) Wireless light	<p>On: An integrated wireless device, such as a wireless local area network (WLAN) device and/or a Bluetooth device, is on.</p> <p>Amber: All wireless devices are off.</p>
(2) Power light	<ul style="list-style-type: none"> On: The computer is on. Blinking: The computer is in the Sleep state. Off: The computer is off or in Hibernation.
(3) Battery light	<ul style="list-style-type: none"> Amber: A battery is charging. Turquoise: A battery is close to full charge capacity. Blinking amber: A battery that is the only available power source has reached a low battery level. When the battery reaches a critical battery level, the battery light begins blinking rapidly. Off: If the computer is plugged into an external power source, the light turns off when all batteries in the computer are fully charged. If the computer is not plugged into an external power source, the light stays off until the battery reaches a low battery level.
(4) Drive light	<p>Blinking: The hard drive or optical drive is being accessed.</p> <p>Amber: HP 3D DriveGuard has temporarily parked the hard drive.</p>
(5) Speakers (2)	Produce sound.
(6) Audio-out (headphone) jack	<p>Produces sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio.</p> <p>NOTE: When a device is connected to the headphone jack, the computer speakers are disabled.</p>
(7) Audio-in (microphone) jack	Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.
(8) Media Card Reader	<p>Supports the following optional digital card formats:</p> <ul style="list-style-type: none"> Memory Stick Memory Stick Duo Memory Stick Pro MultiMediaCard Secure Digital Memory Card

Component	Description
	<ul style="list-style-type: none">• xD-Picture Card• xD-Picture Card Type H• xD-Picture Card Type M
(9) Display release button	Opens the computer.
(10) Business card slot	Holds a business card in position so that the webcam can capture an image.

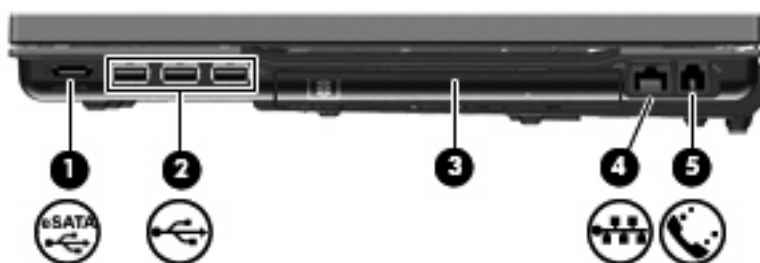
Rear components



The vent enables airflow to cool internal components.

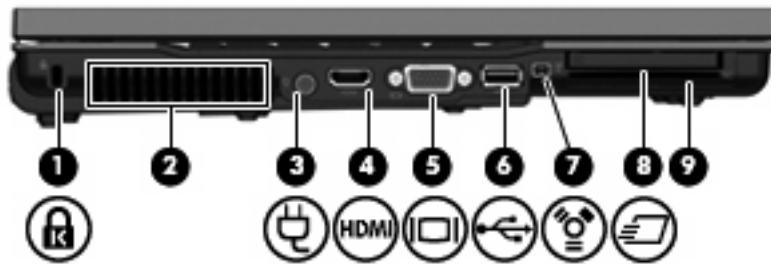
 **NOTE:** The computer fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation.

Right-side components



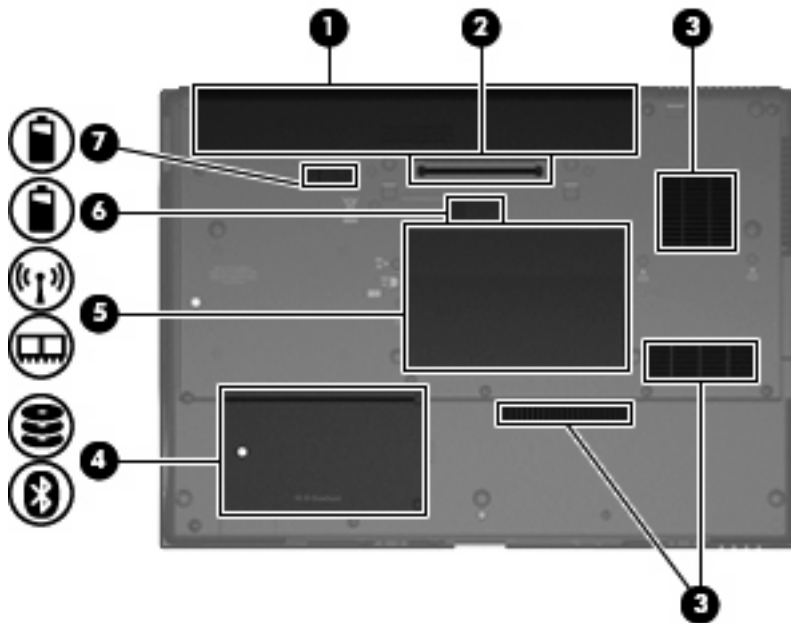
Component	Description
(1) eSATA port	Connects high-performance eSATA components, such as an eSATA external hard drive.
(2) USB ports (3)	Connect optional USB devices.
(3) Upgrade bay	Supports an optical drive or hard drive.
(4) RJ-45 (network) jack	Connects a network cable.
(5) RJ-11 (modem) jack	Connects a modem cable.

Left-side components



Component	Description
(1) Security cable slot	Attaches an optional security cable to the computer. NOTE: The security cable is designed to act as a deterrent, but it may not prevent the computer from being mishandled or stolen.
(2) Vent	Enables airflow to cool internal components. NOTE: 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.
(3) Power connector	Connects an AC adapter.
(4) HDMI port	Connects an optional HDMI device.
(5) External monitor port	Connects an external VGA monitor or projector.
(6) USB port	Connects an optional USB device.
(7) 1394 port	Connects an optional IEEE 1394 or 1394a device, such as a camcorder.
(8) ExpressCard slot	Supports optional ExpressCards.
(9) Smart card reader	Supports optional smart cards and Java™ Cards.

Bottom components




Component	Description
(1) Battery bay	Holds the battery.
(2) Docking connector	Connects an optional docking device.
(3) Vents (3)	Enable airflow to cool internal components. NOTE: 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.
(4) Hard drive bay	Holds the hard drive and a Bluetooth device.
(5) Memory module compartment	Contains the memory module slots and a wireless LAN module slot. CAUTION: To prevent an unresponsive system and the display of a warning message, replace the WLAN module with only a module authorized for use in the computer by the governmental agency that regulates wireless devices in your country. If you replace the module and then receive a warning message, remove the module to restore computer functionality, and then contact technical support through Help and Support.
(6) Accessory battery connector	Connects an optional accessory battery.
(7) Battery release latch	Releases the battery from the battery bay.

Wireless antennas

The antennas send and receive signals from one or more wireless devices. These antennas are not visible from the outside of the computer.



 **NOTE:** 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.

Additional hardware components



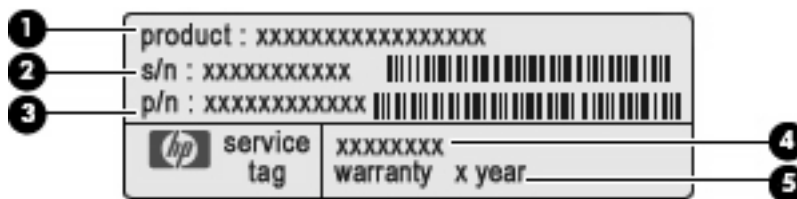
Component	Description
(1) Power cord*	Connects an AC adapter to an AC outlet.
(2) Battery*	Powers the computer when the computer is not plugged into external power.
(3) AC adapter	Converts AC power to DC power.
(4) Modem cable (select models only)*	Connects the internal modem to an RJ-11 telephone jack or to a country- or region-specific modem cable adapter.
(5) Country- or region-specific modem cable adapter (select models only)*	Adapts the modem cable to a non-RJ-11 telephone jack.

*Modem cables, batteries, modem cable adapters, and power cords vary in appearance by country or region.

3 Labels

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

- Service tag—Provides important information, including the following:



- Product name **(1)**. This is the product name affixed to the front of your notebook.
- Serial number (s/n) **(2)**. This is an alphanumeric identifier that is unique to each product.
- Part number/Product number (p/n) **(3)**. This number provides specific information about the product's hardware components. The part number helps a service technician to determine what components and parts are needed.
- Model description **(4)**. This is the alphanumeric identifier you use to locate documents, drivers, and support for your notebook.
- Warranty period **(5)**. Describes the duration of the warranty period for this computer.

Have this information available when you contact technical support. The service tag label is affixed to the bottom of the computer.

- Microsoft® Certificate of Authenticity—Contains the 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 computer.
- Regulatory label—Provides regulatory information about the computer. The regulatory label is affixed inside the battery bay.
- 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 inside the memory module compartment.
- Wireless certification label(s) (select models only)—Provide information about optional wireless devices and the approval markings of some of the countries in which the devices have been approved for use. An optional device may be a wireless local area network (WLAN) device or an optional Bluetooth® device. 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 affixed inside the memory module compartment.

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