

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.

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1 Identifying hardware

To see a list of hardware installed in the computer, follow these steps:

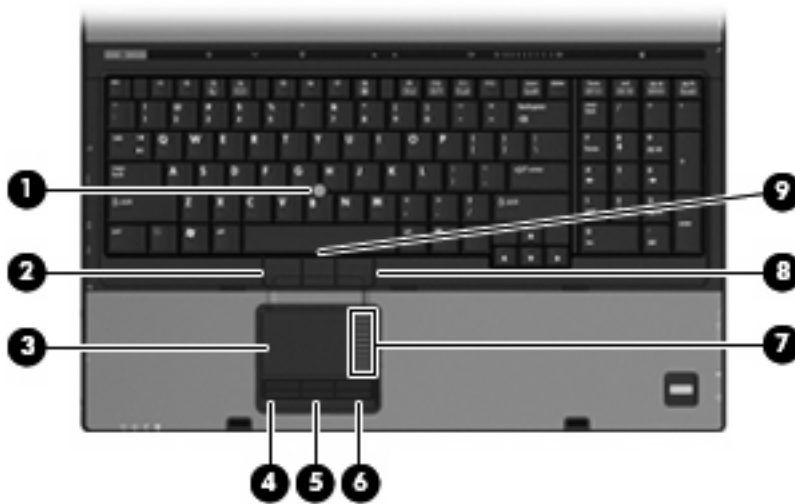
1. Select **Start > Computer > System properties**.
2. In the left pane, click **Device Manager**.

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

2 Components

Top components

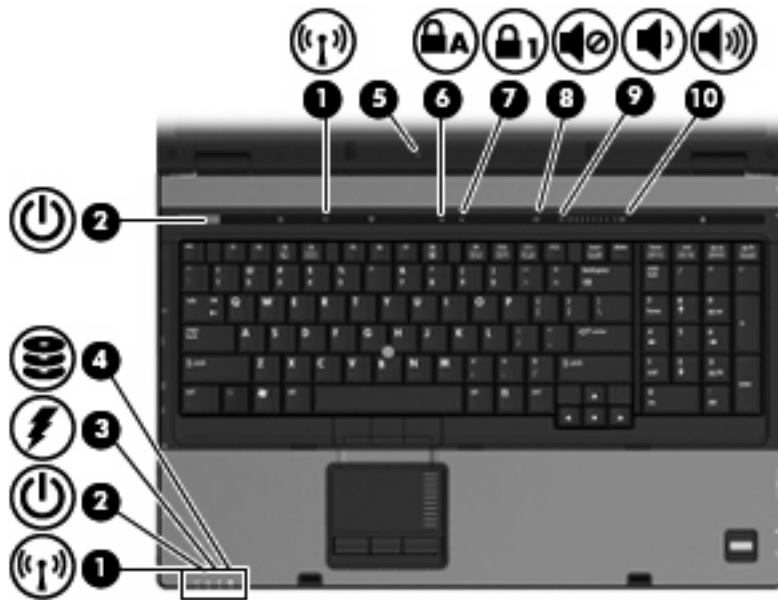
Pointing devices



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 > Control Panel > Hardware and Sound > Mouse**.

Lights



Component	Description
(1) 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. Off: All wireless devices are off.
(2) Power lights (2)†	<ul style="list-style-type: none"> On: The computer is on. Blinking: The computer is in the Sleep state. Blinking rapidly: An AC adapter with a higher power rating should be connected. Off: The computer is off or in Hibernation.
(3) Battery light	<ul style="list-style-type: none"> Amber: A battery is charging. Green: 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	<ul style="list-style-type: none"> Blinking green: The hard drive or optical drive is being accessed. Amber: HP 3D DriveGuard has temporarily parked the internal hard drive.
(5) Ambient light sensor	Detects available light.

Component	Description
(6) Caps lock light	On: Caps lock is on.
(7) Num lock light	On: Num lock is on or the embedded numeric keypad is enabled.
(8) Volume mute light	<ul style="list-style-type: none"> • Amber: Computer sound is turned off. • Off: Computer sound is turned on.
(9) Volume down light	On: The volume scroll zone is being used to decrease speaker volume.
(10) Volume up light	On: The volume scroll zone is being used to increase speaker volume.

*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.

†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.


Buttons, switches, and fingerprint reader

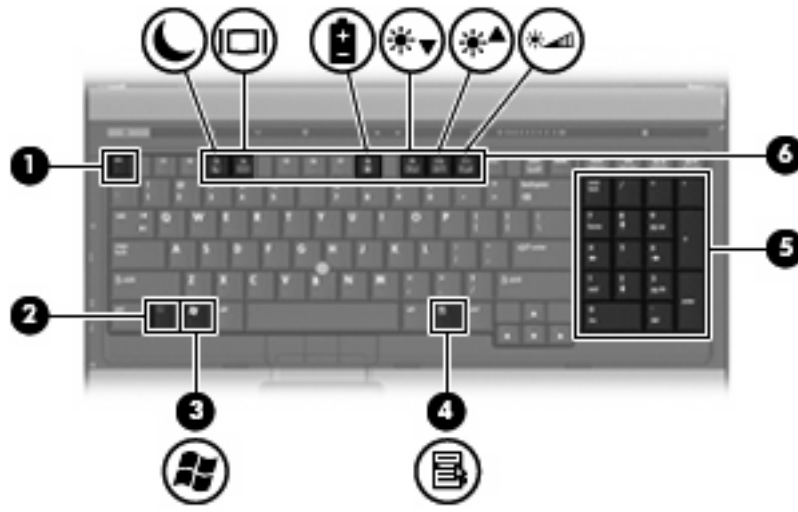


Component	Description
(1) Power button	<ul style="list-style-type: none">When the computer is off, press the button to turn on the computer.When the computer is on, press the button to shut down the computer.When the computer is in the Sleep state, press the button briefly to exit Sleep.When the computer 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 Maintenance > Power Options.</p>
(2) Info button	Launches Info Center, which enables you to open various software solutions.
(3) Wireless button	Turns the wireless feature on or off, but does not establish a wireless connection. NOTE: A wireless network must be set up in order to establish a wireless connection.
(4) Presentation button	Starts the presentation feature.
(5) Volume mute button	Mutes and restores speaker sound.
(6) 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.

Component	Description
(7) Calculator button	Turns on the Windows calculator function.
(8) HP Fingerprint Sensor (fingerprint reader)	Allows a fingerprint logon to Windows, instead of a password logon.

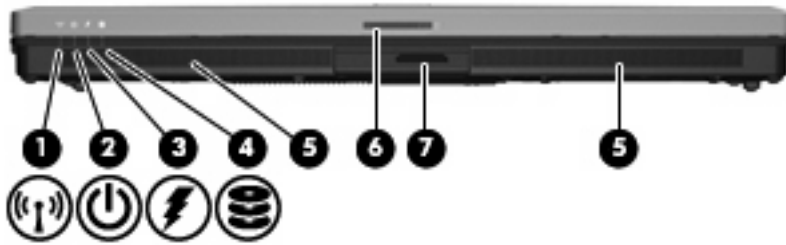
Keys

 **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	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>Off: 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. Blinking rapidly: An AC adapter with a higher power rating should be connected. Off: The computer is off or in Hibernation.
(3) Battery light	<ul style="list-style-type: none"> Amber: A battery is charging. Green: 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 green: 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) Display release latch	Opens the computer.
(7) Media Card Reader	Supports the following optional digital card formats: Secure Digital (SD) Memory Stick, Memory Stick Pro, Memory Stick Duo, xD card, and MultiMediaCard (MMC).

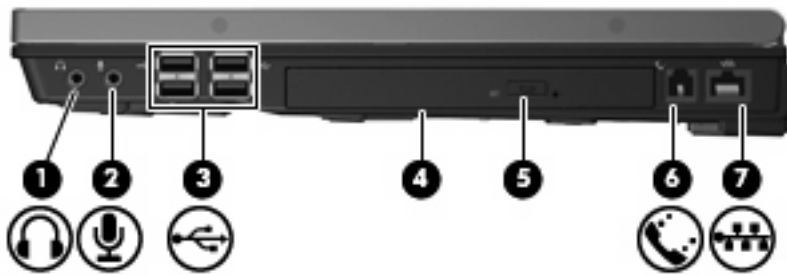
Rear components



The vent enables airflow to cool internal components.

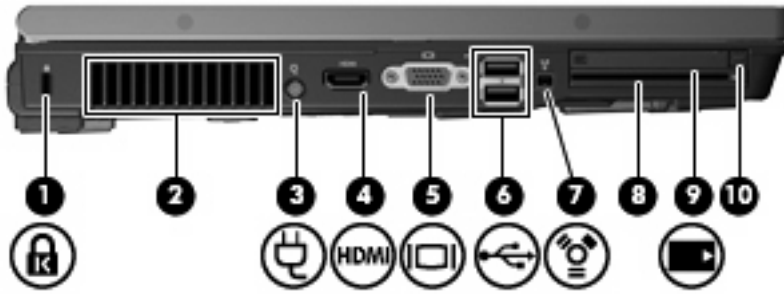
-
- △ **CAUTION:** To prevent overheating, do not obstruct vents. Use the computer only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or thick rugs or clothing, to block airflow.
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Right-side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



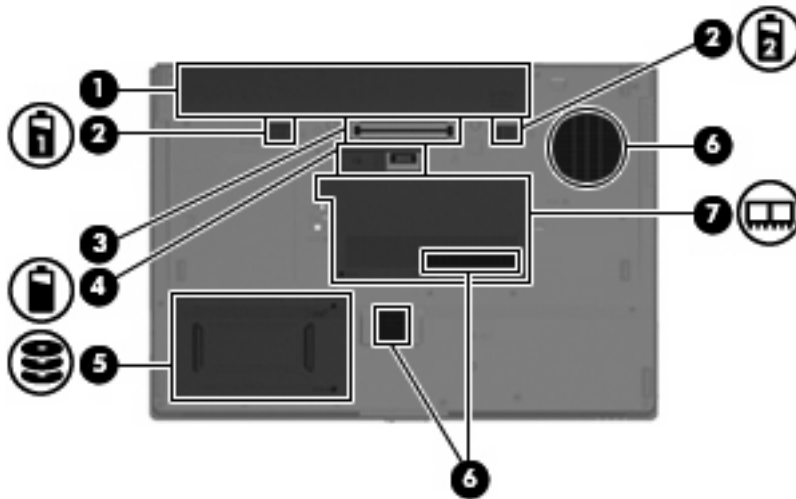
Component	Description
(1) Audio-out (headphone) jack	Produces sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio.
(2) Audio-in (microphone) jack	Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.
(3) USB ports (4)	Connects up to 4 optional USB devices.
(4) Optical drive	Reads an optical disc.
(5) Optical drive button	Releases the media tray.
(6) RJ-11 (modem) jack	Connects a modem cable.
(7) RJ-45 (network) jack	Connects a network 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. CAUTION: To prevent overheating, do not obstruct vents. Use the computer only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or thick rugs or clothing, to block airflow. 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 ports (2)	Connect optional USB devices.
(7) 1394 port	Connects an optional IEEE 1394 or 1394a device, such as a camcorder.
(8) Smart card reader	Supports smart cards and Java™ cards.
(9) PC Card slot	Supports optional Type I or Type II 32-bit (CardBus) or 16-bit PC Cards.
(10) PC Card eject button	Ejects a PC Card from the PC Card slot.

Bottom components

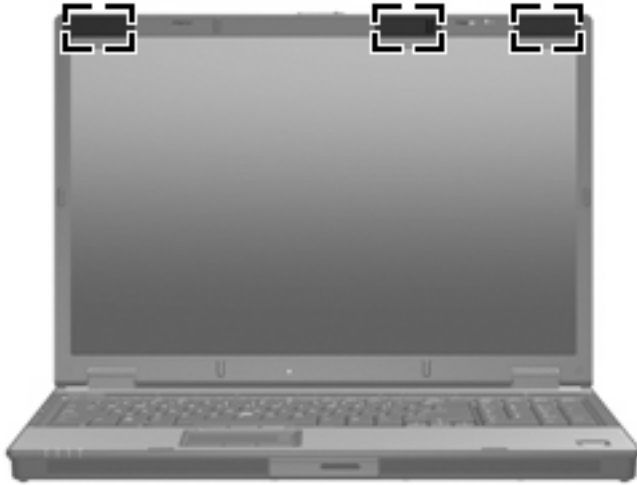



Component	Description
(1) Battery bay	Holds the battery.
(2) Battery release latches (2)	Release the battery from the battery bay.
(3) Docking connector	Connects an optional docking device.
(4) Accessory battery connector (slide open to expose)	Connects an optional accessory battery.
(5) Hard drive bay	Holds the hard drive.
(6) Vents (3)	Enable airflow to cool internal components. CAUTION: To prevent overheating, do not obstruct vents. Use the computer only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or thick rugs or clothing, to block airflow. 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.
(7) Expansion memory module and WLAN module compartment	Contains the expansion memory module slot 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.

Wireless antennae

Wireless antennae send and receive signals to communicate with wireless local-area networks (WLAN). The antennae are not visible from the outside of the computer.

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.



 **NOTE:** For optimal transmission, keep the areas immediately around the antennae free from obstructions.

Additional hardware components



Component	Description
(1) Power cord*	Connects an AC adapter to an AC outlet.
(2) AC adapter	Converts AC power to DC power.
(3) Battery*	Powers the computer when the computer is not plugged into external power.

*Batteries and power cords vary in appearance by region and country.

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 the product brand and series name, serial number (s/n), and product number (p/n) of your 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 to the bottom of the computer.
- 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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