

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:

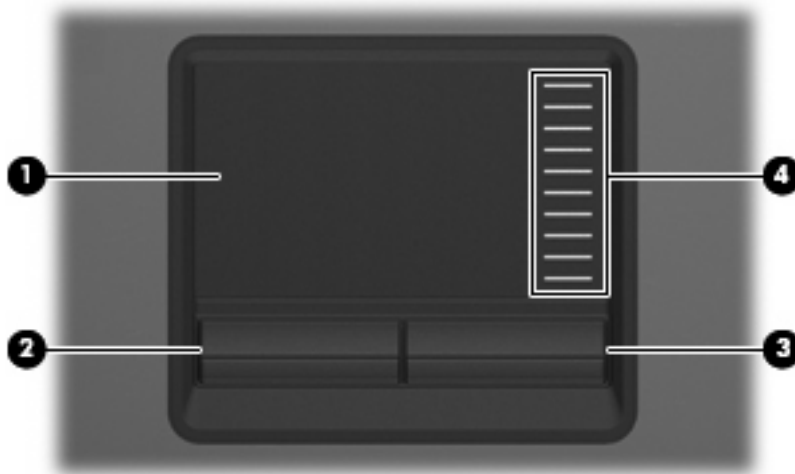
1. Select **Start > Computer > System properties**.
2. In the left pane, click **Device Manager**.

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

2 Components

Top components

TouchPad



Component	Description
(1) TouchPad*	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.
(4) TouchPad scroll zone*	Scrolls up or down.

*This table describes factory settings. To view or change pointing device preferences, select **Start > Control Panel > Hardware and Sound > Mouse**.

Lights



NOTE: Refer to the illustration that most closely matches your computer.



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. Blinking rapidly: An AC adapter with a higher power rating should be connected. 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, the HP Broadband Wireless Module, and/or a Bluetooth® device, is on. Off: All wireless devices are off.
(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	<ul style="list-style-type: none"> Off: Computer sound is on. On: 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.

Component	Description
(8) 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.
(9) 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.

*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.



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. • Blinking rapidly: An AC adapter with a higher power rating should be connected. • 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, the HP Broadband Wireless Module, and/or Bluetooth device, is on. • Off: All wireless devices are off.
(3) Caps lock light	On: Caps lock is on.
(4) Num lock light	Blinking: Num lock is on or the embedded numeric keypad is enabled.
(5) Battery light	<ul style="list-style-type: none"> • On: 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.
(6) Drive light	Blinking green: The hard drive or optical drive is being accessed.

*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



NOTE: Refer to the illustration that most closely matches your computer.




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) Internal display switch	Turns off the display if the display is closed while the power is on.
(3) Info button	Launches Info Center, which enables you to open various software solutions.
(4) Wireless button	Turns the wireless feature on or off, but does not establish a wireless connection.
(5) Presentation button	Starts the presentation feature.
(6) Volume mute button	Mutes and restores speaker sound.



NOTE: A wireless network must be set up in order to establish a wireless connection.

Component	Description
(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 tap the minus sign on the scroll zone to decrease volume, or tap the plus sign on the scroll zone to increase volume.
(8) Internal microphone	Records sound.
(9) Fingerprint reader	Allows a fingerprint logon to Windows, instead of a password logon.

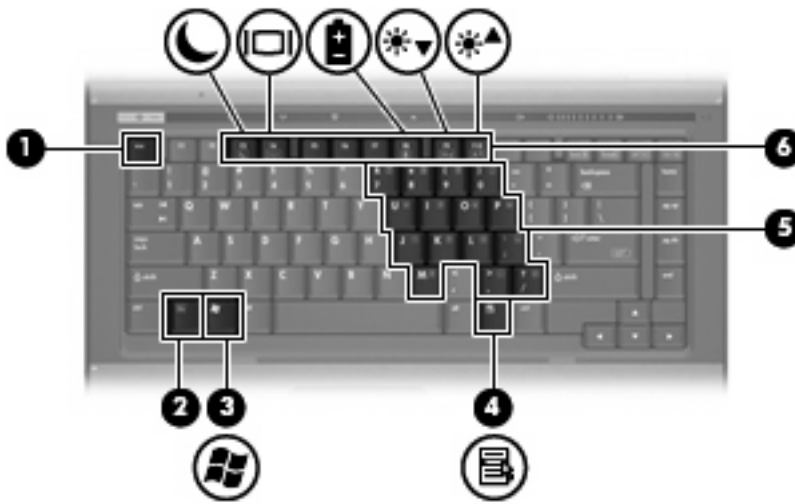


Component	Description
(1) Power button	<ul style="list-style-type: none"> When the computer is off, press the button to turn on the computer. When the computer is on, press the button to shut down the computer. When the computer is in the Sleep state, press the button briefly to exit Sleep. When the 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) Internal display switch	Turns off the display if the display is closed while the power is on.
(3) Wireless button	Turns the wireless feature on or off, but does not create a wireless connection.
	<p> NOTE: A wireless network must be set up in order to establish a wireless connection.</p>

Keys

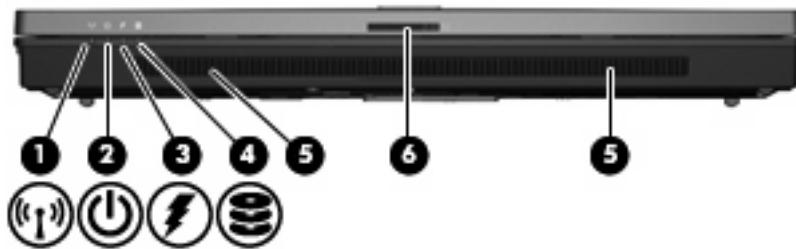


NOTE: Your computer may look slightly different from the illustration in this section.



Component	Description
(1) esc key	Displays system information when pressed in combination with the fn key.
(2) fn key	Executes frequently used system functions when pressed in combination with a function key or the esc key.
(3) Windows logo key	Displays the Windows Start menu.
(4) Windows applications key	Displays a shortcut menu for items beneath the pointer.
(5) Embedded 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 fn key.

Front components



Component	Description
(1) Wireless light	<ul style="list-style-type: none"> On: An integrated wireless device, such as a wireless local area network (WLAN) device, the HP Broadband Wireless Module, and/or a Bluetooth device, is on. Off: All wireless devices are off.
(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	<ul style="list-style-type: none"> Blinking green: The hard drive or optical drive is being accessed. Amber (select models only): HP 3D DriveGuard has temporarily parked the hard drive.
(5) Speakers	Produce sound.
(6) Display release latch	Opens the computer.

Rear components

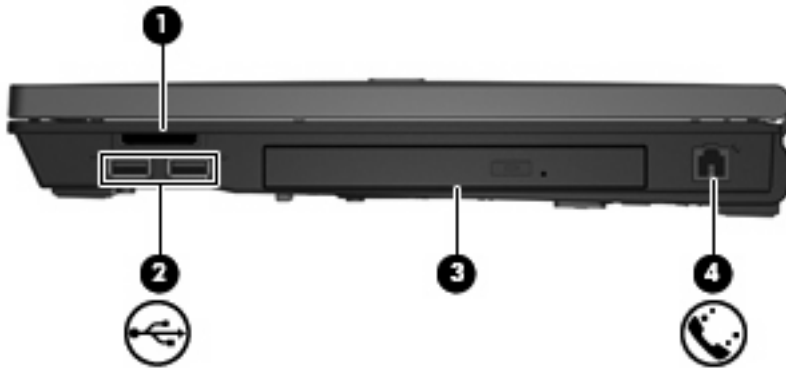


Component	Description
(1) Security cable slot	Attaches an optional security cable to the computer.
(2) RJ-45 (network) jack	Connects a network cable.
(3) External monitor port	Connects an external VGA monitor or projector.
(4) S-Video-out jack (select models only)	Connects an optional S-Video device such as a television, VCR, camcorder, overhead projector, or video capture card.



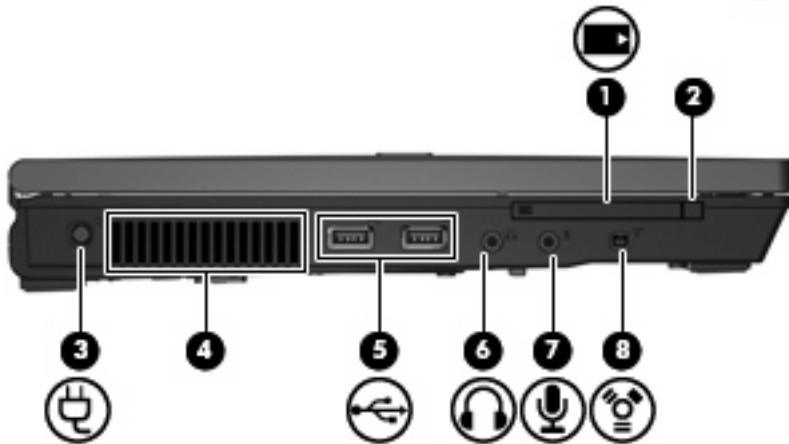
NOTE: The security cable is designed to act as a deterrent, but it may not prevent the computer from being mishandled or stolen.

Right-side components



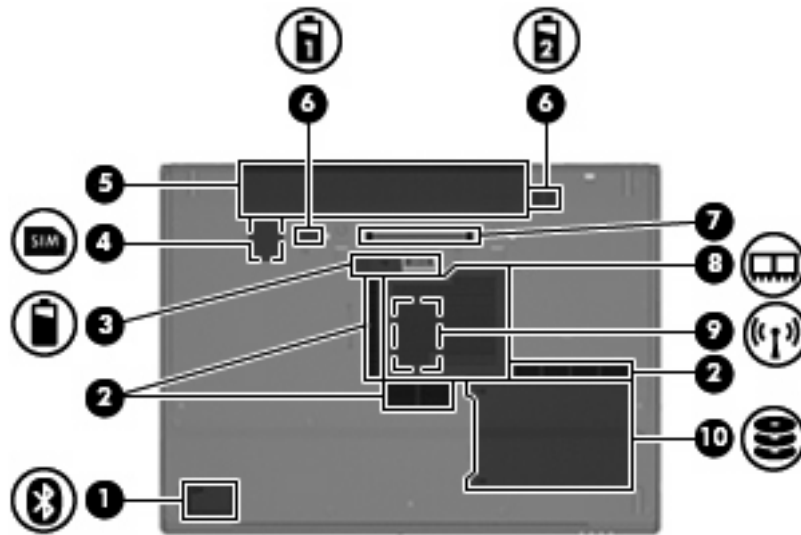
Component	Description
(1) Media Card Reader (select models only)	Supports the following optional digital card formats: Secure Digital (SD) Memory Card, MultiMediaCard (MMC), Memory Stick (MS), Memory Stick Pro (MSPro), Memory Stick Duo Adapter, xD-Picture Card (XD).
(2) USB ports (2) (select models only)	Connect an optional USB device.
(3) Optical drive	Reads an optical disc.
(4) RJ-11 (modem) jack	Connects a modem cable.

Left-side components



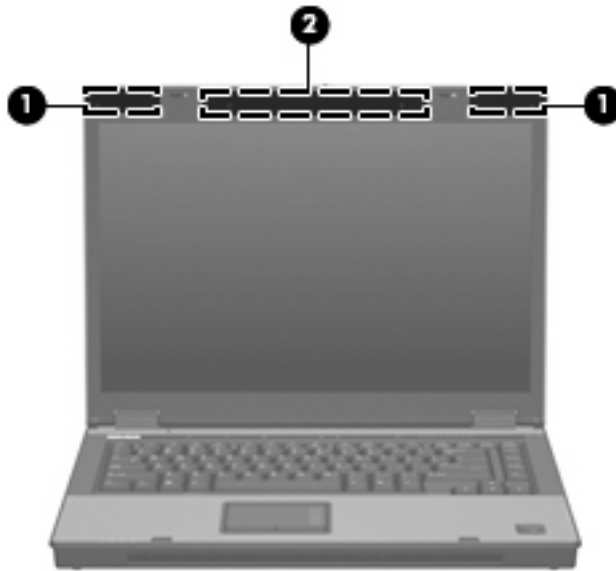
Component	Description
(1) PC Card slot	Supports optional Type I or Type II 32-bit (CardBus) or 16-bit PC Cards.
(2) PC Card eject button	Ejects a PC Card from the PC Card slot.
(3) Power connector	Connects an AC adapter.
(4) Vent	Enables airflow to cool internal components.
<p>CAUTION: To prevent overheating, 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.</p>	
<p>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.</p>	
(5) USB ports (2)	Connect optional USB devices.
(6) Audio-out (headphone) jack	Produces sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio.
(7) Audio-in (microphone) jack	Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.
(8) 1394 port (select models only)	Connects an optional IEEE 1394 or 1394a device, such as a camcorder.

Bottom components



Component	Description
(1) Bluetooth compartment (select models only)	Contains a Bluetooth device.
(2) Vents	Enable airflow to cool internal components.
	<p>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.</p> <p>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.</p>
(3) Accessory battery connector	Connects an optional accessory battery.
(4) SIM slot (select models only)	Contains a subscriber identity module (SIM). The SIM slot is located inside the battery bay.
(5) Battery bay	Holds the battery.
(6) Battery release latches (2)	Release the battery from the battery bay.
(7) Docking connector (select models only)	Connects an optional docking device.
(8) Memory module compartment	Contains the memory module slot.
(9) WLAN module compartment (select models only)	Contains a WLAN (wireless local area network) module slot.
(10) Hard drive bay	Holds the hard drive.

Wireless antennae (select models only)



Component	Description
(1) WLAN antennae (2) (select models only)*	Send and receive wireless signals to communicate with wireless local area networks (WLAN).
(2) WWAN antenna (select models only)*	Sends and receives wireless signals to communicate with wireless wide-area networks (WWAN).

*The antennae are not visible from the outside of the computer. 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.
(4) Modem cable (select models only)*	Connects the internal modem to an RJ-11 telephone jack or to a country-specific modem adapter.
(5) Country-specific modem cable adapter (select models only)*	Adapts the modem cable to a non-RJ-11 telephone jack.

*Modem cables, 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 (select models only)—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, an HP Broadband Wireless Module, 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.
- SIM (subscriber identity module) label (select models only)—Provides the ICCID (Integrated Circuit Card Identifier) of your SIM. This label is located inside the battery bay.
- HP Broadband Wireless Module serial number label (select models only)—Provides the serial number of your HP Broadband Wireless Module. This label is located inside the battery bay.

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