Notebook Tour
User Guide

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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 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, 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.

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 applications, running utilities, or changing Windows settings. Refer to Windows Help for more information.

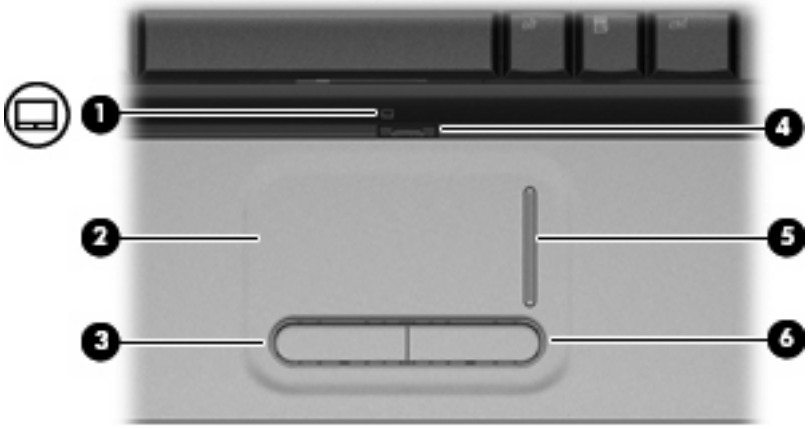
2 Components

Product notice

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

Top components

TouchPad

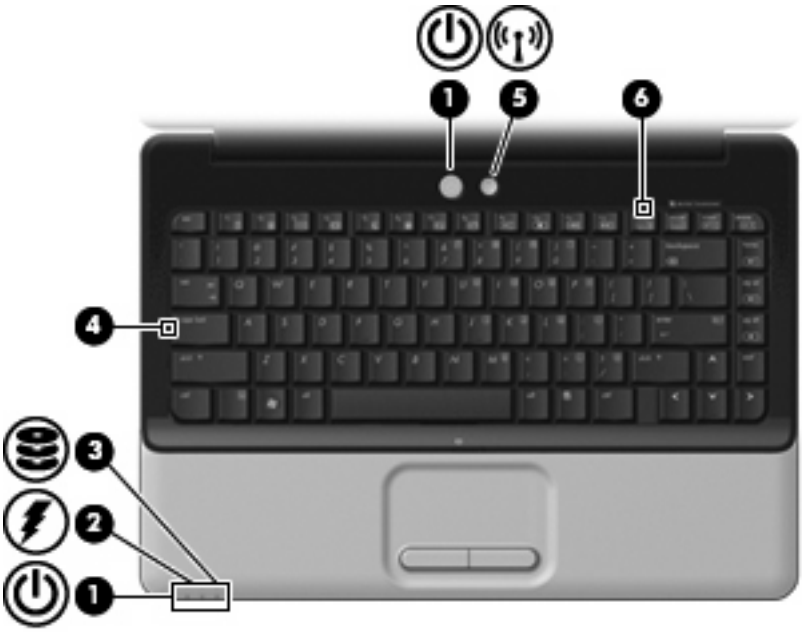


Component		Description
(1)	TouchPad light	• White: TouchPad is enabled. • Amber: TouchPad is disabled.
(2)	TouchPad*	Moves the pointer and selects or activates items on the screen.
(3)	Left TouchPad button*	Functions like the left button on an external mouse.
(4)	TouchPad on/off button	Enables/disables the TouchPad.
(5)	TouchPad scroll zone*	Scrolls up or down.
(6)	Right TouchPad button*	Functions like the right 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

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

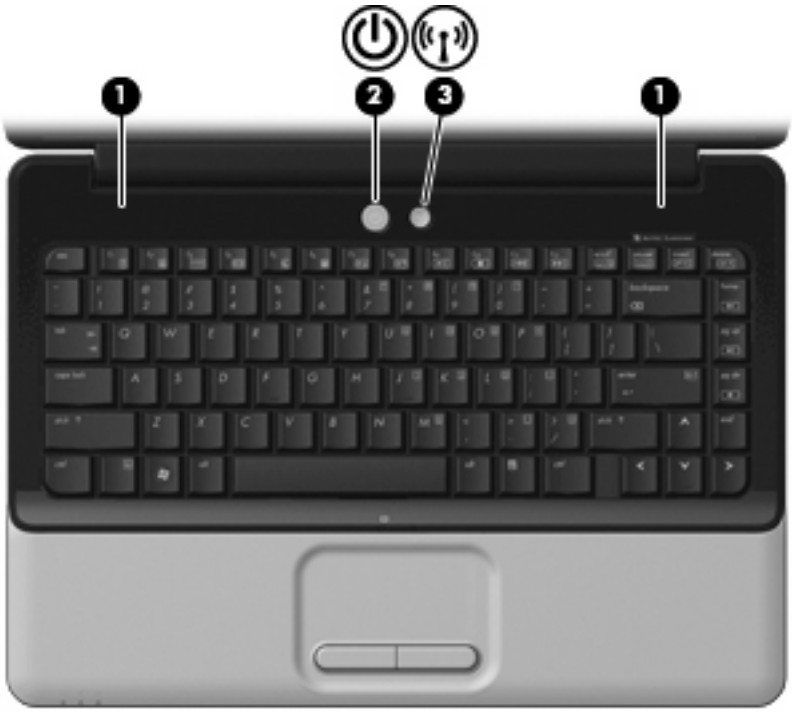


Component		Description
(1)	Power lights (2)*	• On: The computer is on. • Blinking: The computer is in the Sleep state. • Off: The computer is off or in Hibernation.
(2)	Battery light	• On: A battery is charging. • Blinking: A battery that is the only available power source has reached a low battery level or a critical battery level. • Off: If the computer is plugged into an external power source, the light is turned 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.
(3)	Drive light	• Blinking: The hard drive or optical drive is being accessed. • On: HP ProtectSmart Hard Drive Protection has temporarily parked the internal hard drive.
(4)	Caps lock light	On: Caps lock is on.
(5)	Wireless light	• Blue: 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.
(6)	Num lock light	On: Num lock is on or the embedded numeric keypad is enabled.

*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, speakers, and fingerprint reader (select models only)

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

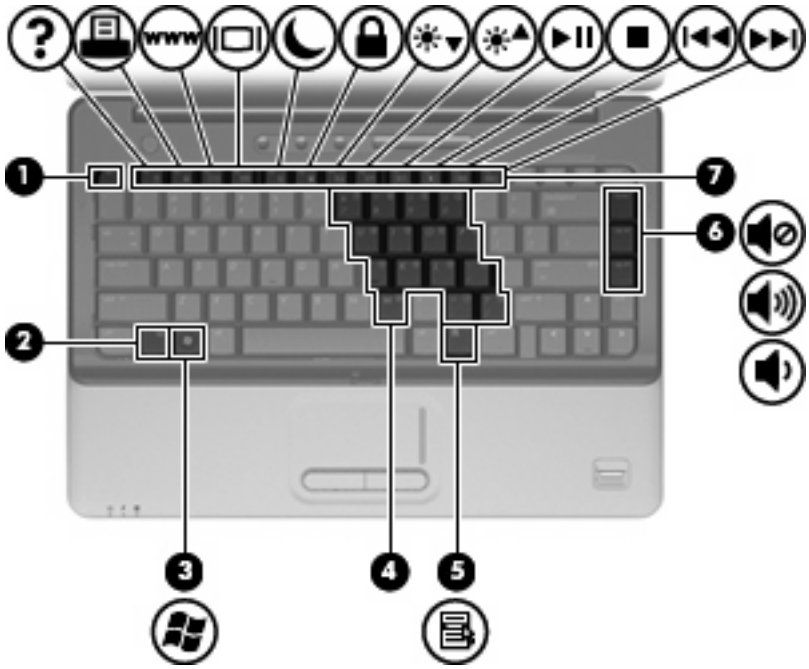


Component		Description
(1)	Speakers (2)	Produce sound.
(2)	Power button*	• When the computer is off, press the button to turn on the computer. • When the computer is on, briefly press the button to initiate Sleep. • When the computer is in the Sleep state, briefly press the button to exit Sleep. • When the computer is in Hibernation, briefly press the button to exit Hibernation. 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. To learn more about your power settings, select **Start > Control Panel > System and Maintenance > Power Options**.
(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.

*This table describes factory settings. For information about changing factory settings, refer to the user guides located in Help and Support.

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)	Embedded numeric keypad keys	Can be used like the keys on an external numeric keypad.
(5)	Windows applications key	Displays a shortcut menu for items beneath the pointer.
(6)	Navigation keys (home, pg up, pg down)	Execute volume mute, volume up, or volume down when pressed in combination with the fn key.
(7)	Function keys	Execute frequently used system functions when pressed in combination with the fn key.

Display

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

Component		Description
(1)	Internal display switch	Turns off the display if the display is closed while the computer is turned on.
(2)	Internal microphones (2)	Record sound. Depending on your computer model, the computer may have 1 or 2 internal microphones. **NOTE:** If there is a microphone icon next to each microphone opening, your computer has internal microphones.
(3)	Integrated webcam light	On: The integrated webcam is in use.
(4)	Integrated webcam	Records video and captures still photographs.

Front components

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

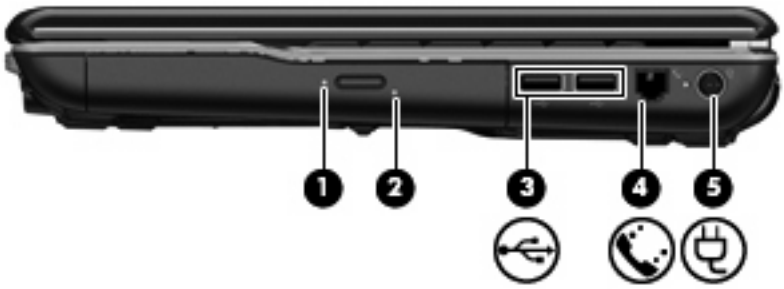
Component		Description
(1)	Power light	• On: The computer is on. • Blinking: The computer is in the Sleep state. • Off: The computer is off or in Hibernation.
(2)	Battery light	• On: A battery is charging. • Blinking: A battery that is the only available power source has reached a low battery level or a critical battery level. • Off: If the computer is plugged into an external power source, the light is turned 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.
(3)	Drive light	• Blinking: The hard drive or optical drive is being accessed. • On: HP ProtectSmart Hard Drive Protection has temporarily parked the internal hard drive.
(4)	Consumer infrared lens (select models only)	Receives a signal from the HP Remote Control (select models only).
(5)	Audio-in (microphone) jack	Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.
(6)	Audio-out (headphone) jack	Produces sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio.

Rear component

Component	Description
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

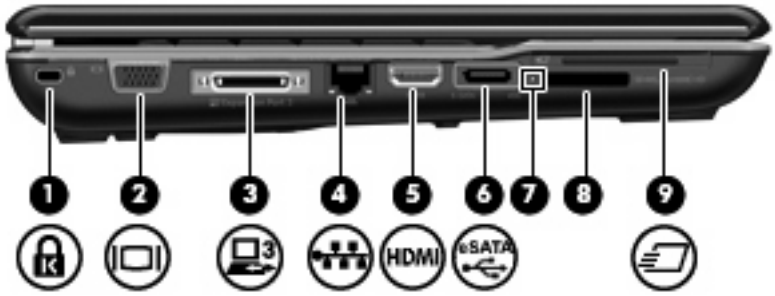
NOTE: Your computer may look slightly different from the illustration in this section.



Component		Description
(1)	Optical drive light	Blinking: The optical drive is being accessed.
(2)	Optical drive	Reads optical discs and, on select models, also writes to optical discs.
(3)	USB ports (2)	Connect optional USB devices.
(4)	RJ-11 (modem) jack (select models only)	Connects a modem cable.
(5)	Power connector	Connects an AC adapter.

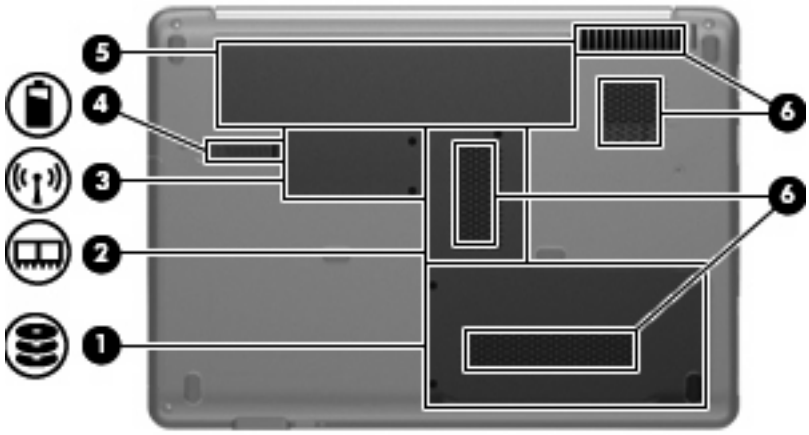
Left-side components

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



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)	External monitor port	Connects an external VGA monitor or projector.
(3)	Expansion port 3 (select models only)	Connects the computer to an optional docking device or optional expansion product. **NOTE:** The computer has only one expansion port. The term *expansion port 3* describes the type of expansion port.
(4)	RJ-45 (network) jack	Connects a network cable.
(5)	HDMI port	Connects an optional video or audio device, such as a high-definition television, or any compatible digital or audio component.
(6)	eSATA/USB port (select models only)	Connects high-performance eSATA components, such as an eSATA external hard drive, or connects an optional USB device. **NOTE:** Depending on your computer model, the computer may include a USB port only.
(7)	Digital Media Slot light	On: A digital card is being accessed.
(8)	Digital Media Slot	Supports the following optional digital card formats: • Memory Stick (MS) • Memory Stick Pro (MSP) • MultiMediaCard (MMC) • Secure Digital (SD) Memory Card • xD-Picture Card (XD)
(9)	ExpressCard slot (select models only)	Supports optional ExpressCards.

Bottom components



Component		Description
(1)	Hard drive and WLAN module compartment	Holds the hard drive and, for select models only, the wireless LAN (WLAN) device. **CAUTION:** 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 through Help and Support.
(2)	Memory module compartment	Contains the 2 memory module slots.
(3)	Mini Card compartment	Holds a WLAN device (select models only). **CAUTION:** 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 through Help and Support.
(4)	Battery release latch	Releases the battery from the battery bay.
(5)	Battery bay	Holds the battery.
(6)	Vents (4)	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.

Wireless antennae (select models only)

On select computer models, at least 2 antennae send and receive signals from one or more wireless devices. These antennae are not visible from the outside of the computer.

NOTE: For optimal transmission, keep the areas immediately around the antennae 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)	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 important information including:

  - Product Name **(1)**. This is the product name affixed to the front of your notebook.
  - Serial Number (s/n) **(2)**. This is an alphanumeric number 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 most important number you need to locate documents, drivers, and support for your notebook.

  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 or regions 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 hard drive bay.
- Wireless certification label(s) (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. 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 Mini Card compartment.

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