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

⚠ **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 > Control Panel > System and Security.** Then, in the **System** area, click **Device Manager**.

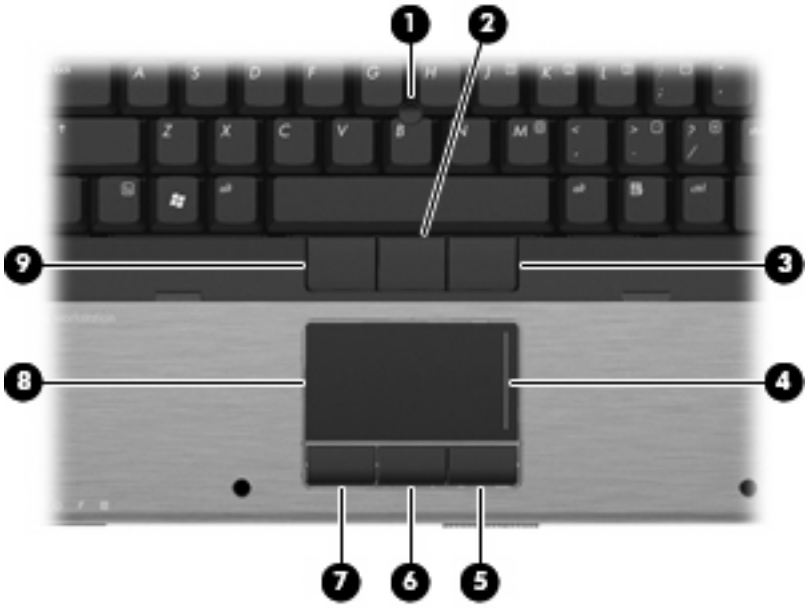
You can also add hardware or modify device configurations using Device Manager.

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 software, running utilities, or changing Windows settings. Refer to Help and Support for more information.

2 Components

Top components

Pointing devices

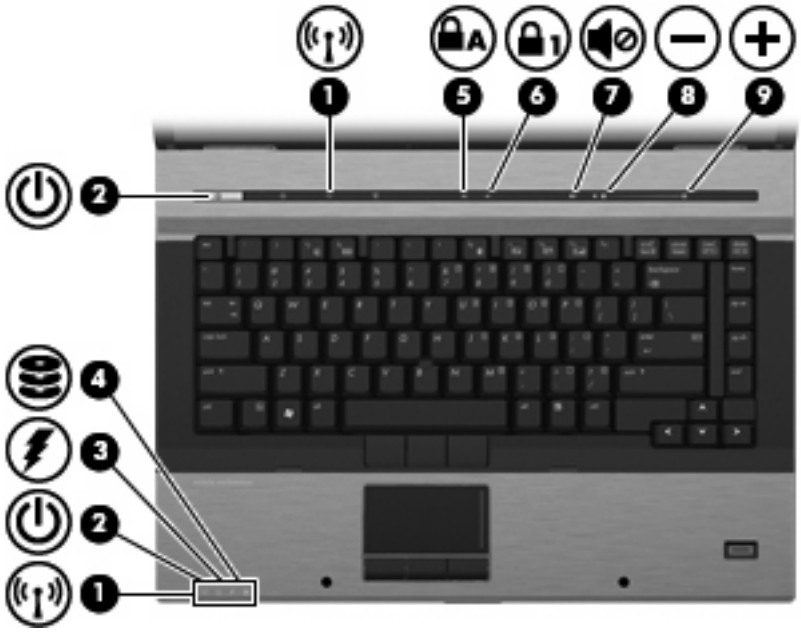


Component		Description
(1)	Pointing stick	Moves the pointer and selects or activates items on the screen.
(2)	Center pointing stick button	Functions like the center button on an external mouse.
(3)	Right pointing stick button	Functions like the right button on an external mouse.
(4)	TouchPad scroll zone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

Component		Description
(9)	Left pointing stick button	Functions like the left button on an external mouse.

NOTE: 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



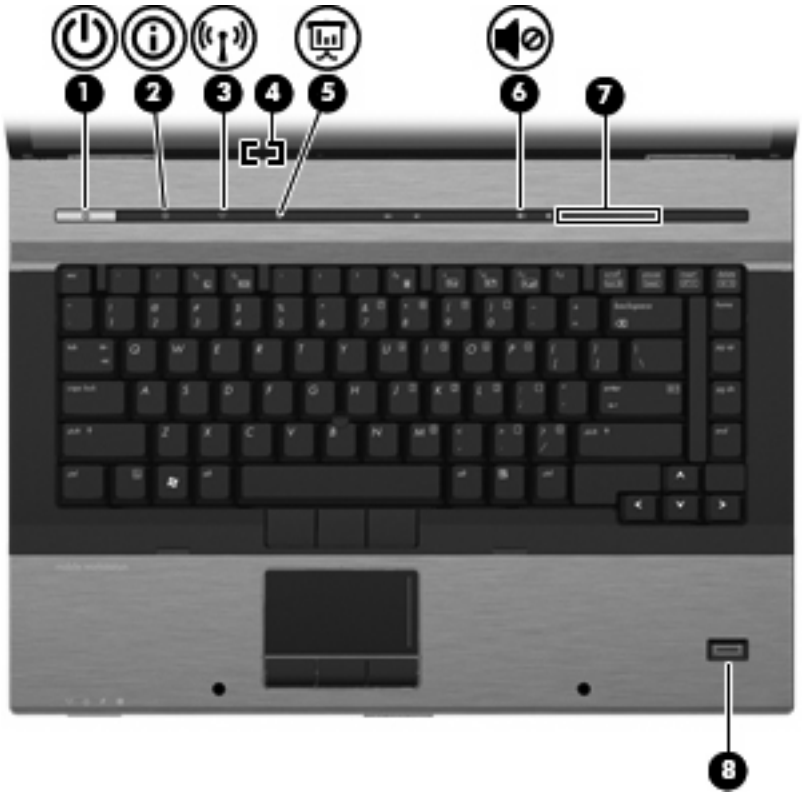
Component		Description
(1)	Wireless lights (2)*	• Turquoise: An integrated wireless device, such as a wireless local area network (WLAN) device, the HP Mobile Broadband Module, and/or a Bluetooth® device, is on. • Amber: All wireless devices are off.
(2)	Power lights (2)†	• On: The computer is on. • Blinking: The computer is in the Sleep state. • Off: The computer is off or in Hibernation.
(3)	Battery light	• 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	• Turquoise: The hard drive or optical drive is being accessed. • Amber: HP 3D DriveGuard has temporarily parked the internal hard drive.
(5)	Caps lock light	On: Caps lock is on.
(6)	Num lock light	On: Num lock is on or the embedded numeric keypad is enabled.

Component		Description
(7)	Volume mute light	• Turquoise: Computer sound is on. • Amber: Computer sound is off.
(8)	Volume down light	Blinking: The volume scroll zone is being used to decrease speaker volume.
(9)	Volume up light	Blinking: 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

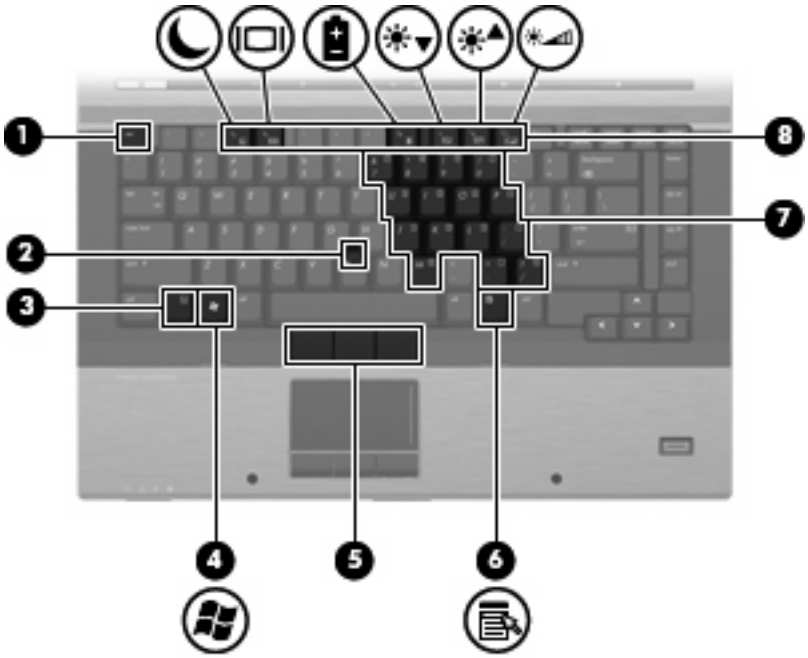


Component		Description
(1)	Power button	• When the computer is off, press the button to turn on the computer. • When the computer is on, press the button to shut down the computer. • When the computer is in the Sleep state, press the button briefly to exit Sleep. • When the computer is in Hibernation, press the button briefly to exit Hibernation. 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 Security > Power Options**.
(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)	Internal display switch	Turns off the display if the display is closed while the power is on.

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 scroll zone to decrease volume, or press the right side of the volume scroll zone to increase volume.
(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.

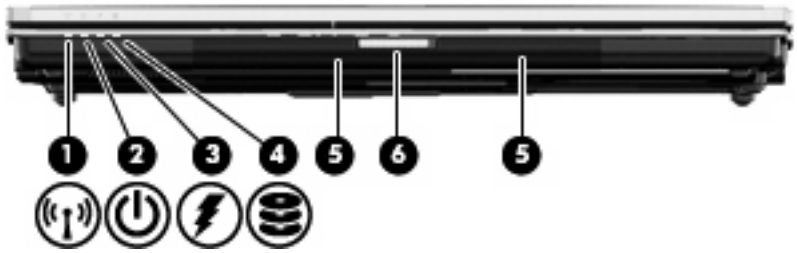


Component		Description
(1)	esc key	Displays system information when pressed in combination with the fn key.
(2)	Pointing stick	Moves the pointer and selects or activates items on the screen.
(3)	fn key	Executes frequently used system functions when pressed in combination with a function key or the esc key.
(4)	Windows logo key	Displays the Windows Start menu.
(5)	Pointing stick buttons	Function like the buttons on an external mouse.
(6)	Windows applications key	Displays a shortcut menu for items beneath the pointer.
(7)	Embedded numeric keypad keys	Can be used like the keys on an external numeric keypad.
(8)	Function keys	Execute frequently used system functions when pressed in combination with the fn key.

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	Records audio and video and captures still photographs.
(4)	Webcam light	On: The integrated camera is in use.
(5)	Keyboard light	Illuminates the keyboard in low-light conditions when the keyboard light button is pressed.
(6)	Keyboard light button	Opens and turns on the keyboard light.
(7)	Ambient light sensor	Automatically adjusts the display brightness based on the lighting conditions in your environment.

Front components

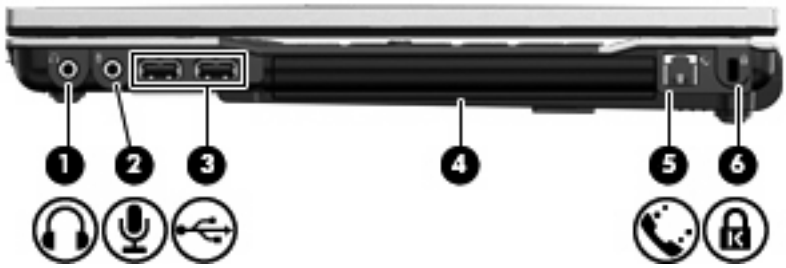


Component		Description
(1)	Wireless light	• Turquoise: An integrated wireless device, such as a wireless local area network (WLAN) device, the HP Mobile Broadband Module, and/or a Bluetooth device, is on. • Amber: All wireless devices are off.
(2)	Power light	• On: The computer is on. • Blinking: The computer is in the Sleep state. • Off: The computer is off or in Hibernation.
(3)	Battery light	• Amber: A battery is charging. • Blinking 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	• Blinking turquoise: 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

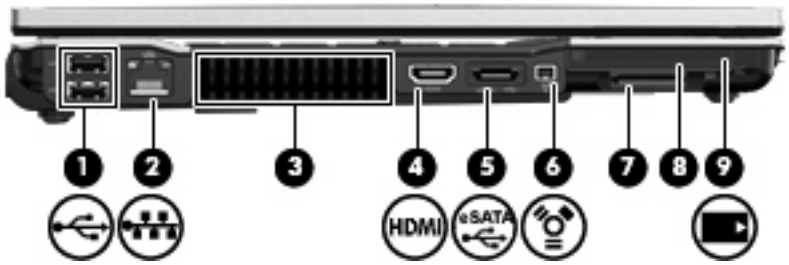
Component		Description
(1)	Power connector	Connects an AC adapter.
(2)	External monitor port	Connects an external VGA monitor or projector.

Right-side components



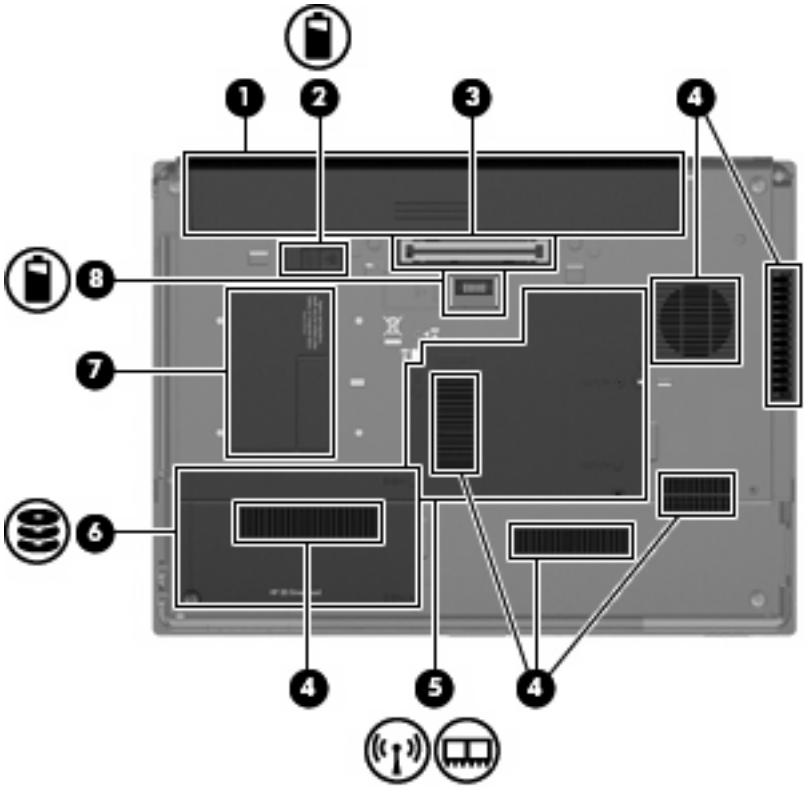
Component		Description
(1)	Audio-out (headphone) jack	Produces sound when connected to optional powered stereo speakers, headphones, earbuds, a headset, or television audio.
(2)	Audio-in (microphone) jack	Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.
(3)	USB ports (2) (select models only)	Connect optional USB devices.
(4)	Upgrade bay	Supports an optical drive or hard drive.
(5)	RJ-11 (modem) jack	Connects a modem cable.
(6)	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.

Left-side components



Component		Description
(1)	USB ports (2)	Connect optional USB devices.
(2)	RJ-45 (network) jack	Connects a network cable. **NOTE:** The RJ-45 (network) jack provides Gigabit Ethernet functionality.
(3)	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.
(4)	HDMI port	Connects an optional video or audio device, such as a high-definition television, or any compatible digital or audio component.
(5)	eSATA port	Connects an eSATA device.
(6)	1394 port	Connects an optional IEEE 1394 or 1394a device, such as a camcorder.
(7)	Media Card Reader	Supports the following optional digital card formats: Memory Stick (MS), Memory Stick Duo (MS Duo), Memory Stick Pro (MSpro), MultiMedia Card (MMC), Secure Digital (SD) Memory Card, and xD-Picture Card.
(8)	Smart card reader	Supports optional smart cards.
(9)	ExpressCard slot	Supports optional ExpressCards.

Bottom components



Component		Description
(1)	Battery bay	Holds the battery and a wireless subscriber identity module (SIM). The SIM slot is located inside the battery bay. **NOTE:** The battery must be installed for the SIM card to operate.
(2)	Battery release latch	Releases the battery from the battery bay.
(3)	Docking connector	Connects an optional docking device.
(4)	Vents (6)	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.
(5)	Memory module compartment	Contains the primary and expansion memory module slots and an HP Mobile Broadband Module (select models only). **CAUTION:** To prevent an unresponsive system, replace the device 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.
(6)	Hard drive bay	Holds the hard drive.

Component		Description
(7)	Business card holder	Holds an optional business card.
(8)	Accessory battery connector	Connects an optional accessory battery.

Wireless antennas

Component		Description
(1)	WWAN antennas (2)*	Send and receive wireless signals to communicate with wireless wide-area networks (WWAN).
(2)	WLAN antennas (3)*	Send and receive wireless signals to communicate with wireless local area networks (WLAN).

*The antennas are not visible from the outside of the computer. 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 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, 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:

  - 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 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 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 or regions in which the devices have been approved for use. An optional device may be a wireless local area network (WLAN) device, an HP Mobile Broadband 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 Mobile Broadband Module serial number label (select models only)—Provides the serial number of your HP Mobile Broadband Module. This label is located inside the memory module compartment.

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