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

2 Components

Top components

Pointing devices

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

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)	Wireless lights (2)†	• Blue: 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.
(3)	TouchPad on/off light	• Turquoise: TouchPad is on. • Amber: TouchPad is off.
(4)	Caps lock light	On: Caps lock is on.
(5)	Num lock light	On: Num lock is on or the embedded numeric keypad is enabled.
(6)	Volume mute light	• Turquoise: Speaker sound is on. • Amber: Speaker sound is off.
(7)	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

Component		Description
		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.
(8)	Drive light	• Blinking turquoise: 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.

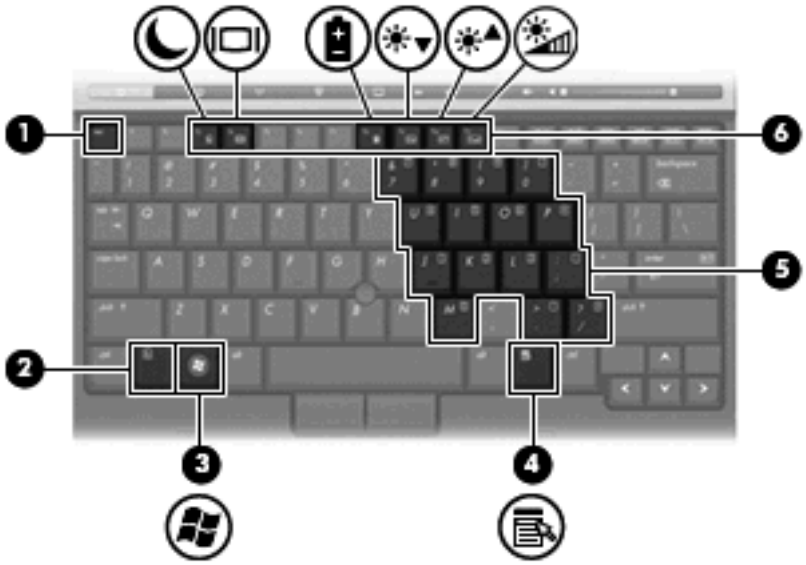
†The 2 wireless lights display the same information. The light on the wireless button is visible only when the computer is open. The wireless light on the front of the computer is visible whether the computer is open or closed.

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 Maintenance > Power Options**.
(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. **NOTE:** A wireless network must be set up in order to establish a wireless connection.
(5)	Presentation button	Starts the presentation feature.

Component		Description
(6)	TouchPad on/off button	Turns the TouchPad on or off.
(7)	Volume mute button	Mutes and restores speaker sound.
(8)	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 and hold the minus (–) sign to decrease volume, or press and hold the plus (+) sign to increase volume.
(9)	Fingerprint reader	Allows a fingerprint logon to Windows, instead of a password logon.

Keys

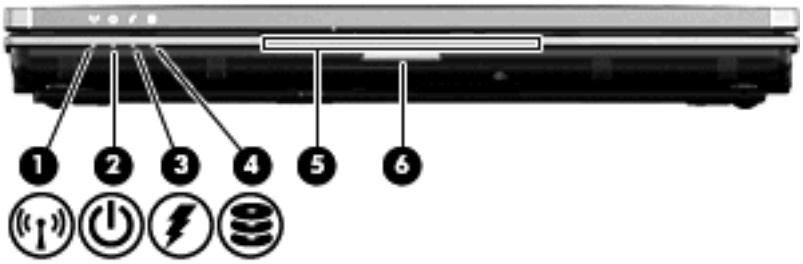


Component		Description
(1)	esc key	Displays system information when pressed in combination with the fn key.
(2)	fn key	Executes frequently used system functions when pressed in combination with a function key or the esc key.
(3)	Windows logo key	Displays the Windows Start menu.
(4)	Windows applications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

Display

Component		Description
(1)	Ambient light sensor	Automatically adjusts the display brightness based on the lighting conditions in your environment.
(2)	Webcam light (select models only)	On: The integrated camera is in use.
(3)	Webcam (select models only)	Records audio and video and captures still photographs.
(4)	Keyboard light	Illuminates the keyboard in low-light conditions when the keyboard light button is pressed.
(5)	Keyboard light button	Opens and turns on the keyboard light.
(6)	Internal microphone	Records sound. **NOTE:** The internal microphone makes use of dual array technology, which provides speech enhancement and suppresses surrounding noises.

Front components



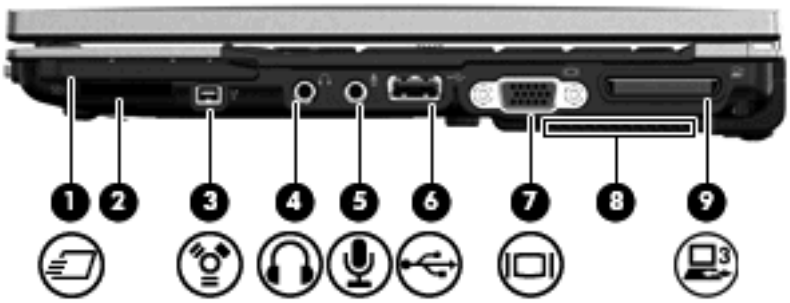
Component		Description
(1)	Wireless light	• Blue: An integrated wireless device, such as a wireless local area network (WLAN) device, the HP Mobile Broadband Module, and/or a Bluetooth device, is on. • Amber: All wireless devices are off.
(2)	Power light	• On: The computer is on. • Blinking: The computer is in the Sleep state. • Off: The computer is off or in Hibernation.
(3)	Battery light	• Amber: A battery is charging. • 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 hard drive.
(5)	Business card slot	Holds a business card in position so that the webcam can capture the information on the card.
(6)	Display release button	Opens the computer.

Rear components

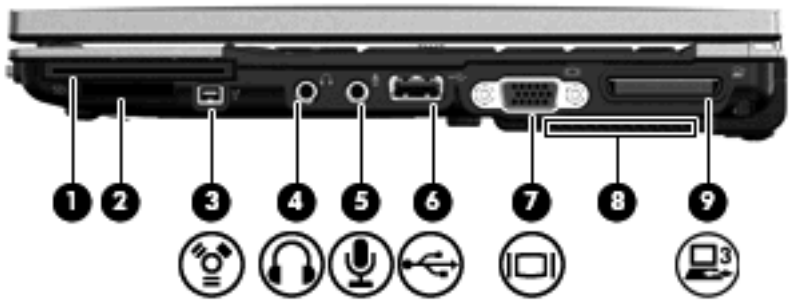
Component		Description
(1)	RJ-45 (network) jack	Connects a network cable.
(2)	Security cable slot	Attaches an optional security cable to the computer. **NOTE:** The security cable is designed to act as a deterrent, but it may not prevent the computer from being mishandled or stolen.

Right-side components

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



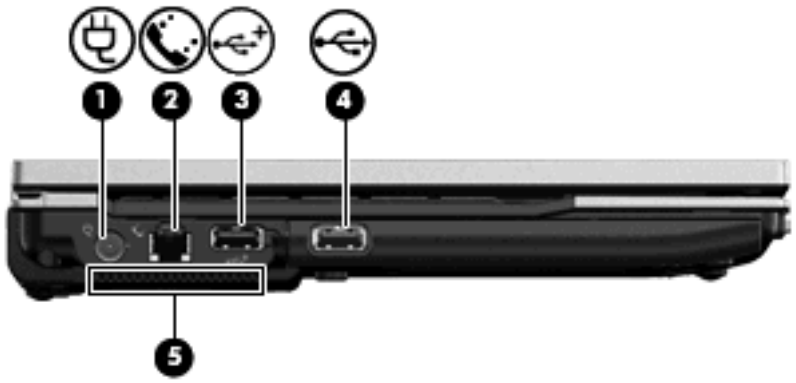
Component		Description
(1)	ExpressCard slot	Supports optional ExpressCards.
(2)	SD Card Reader	Supports the Secure Digital (SD) Memory Card and MultiMediaCard (MMC) optional digital card formats.
(3)	1394 port	Connects an optional IEEE 1394 or 1394a device, such as a camcorder.
(4)	Audio-out (headphone) jack	Produces sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio. **WARNING!** To reduce the risk of personal injury, adjust the volume before putting on headphones, earbuds, or a headset. For additional safety information, refer to the *Regulatory, Safety and Environmental Notices*. **NOTE:** When a device is connected to the headphone jack, the computer speakers are disabled.
(5)	Audio-in (microphone) jack	Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.
(6)	USB port	Connects an optional USB device.
(7)	External monitor port	Connects an external VGA monitor or projector.
(8)	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.
(9)	Expansion port 3	Connects an optional docking device.



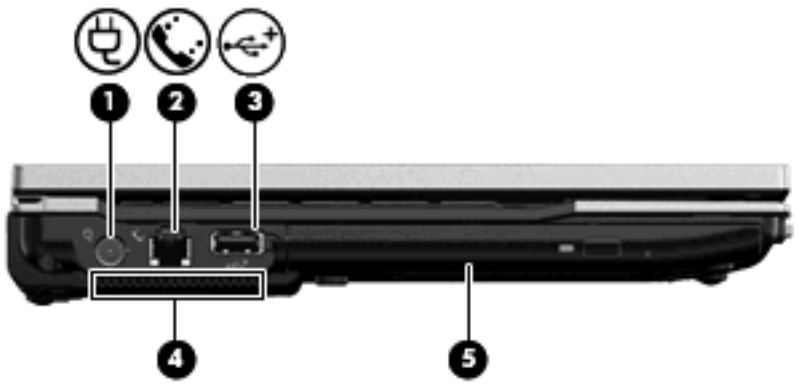
Component		Description
(1)	Smart card reader	Supports optional smart cards and Java™ cards.
(2)	SD Card Reader	Supports the Secure Digital (SD) Memory Card and MultiMediaCard (MMC) optional digital card formats.
(3)	1394 port	Connects an optional IEEE 1394 or 1394a device, such as a camcorder.
(4)	Audio-out (headphone) jack	Produces sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio. **WARNING!** To reduce the risk of personal injury, adjust the volume before putting on headphones, earbuds, or a headset. For additional safety information, refer to the *Regulatory, Safety and Environmental Notices*. **NOTE:** When a device is connected to the headphone jack, the computer speakers are disabled.
(5)	Audio-in (microphone) jack	Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.
(6)	USB port	Connects an optional USB device.
(7)	External monitor port	Connects an external VGA monitor or projector.
(8)	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.
(9)	Expansion port 3	Connects an optional docking device.

Left-side components

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



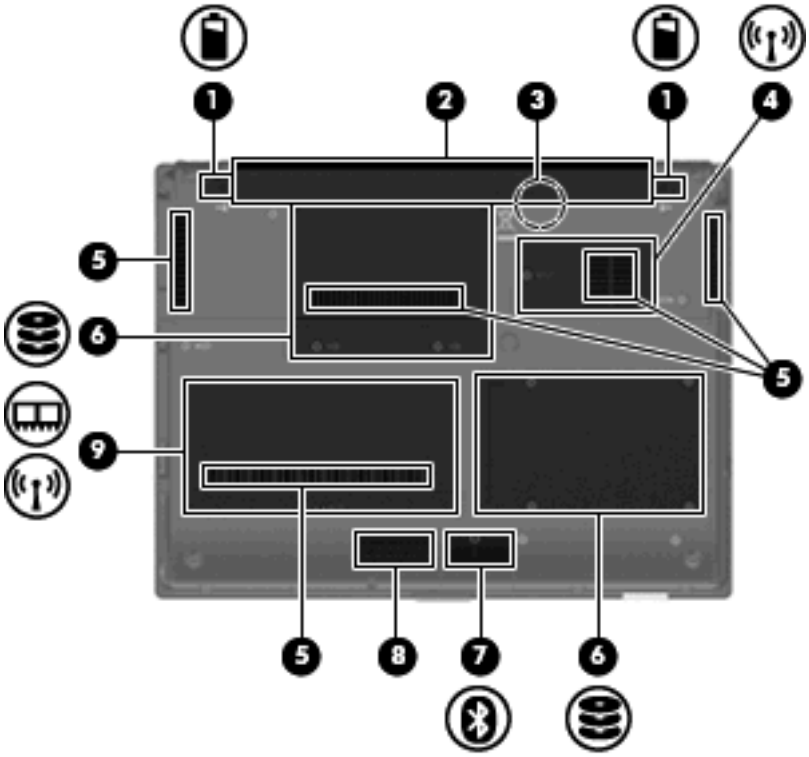
Component		Description
(1)	Power connector	Connects an AC adapter.
(2)	RJ-11 (modem) jack	Connects a modem cable.
(3)	Powered USB port	Provides power to an external device if used with a powered USB cable.
(4)	USB port	Connects an optional USB device.
(5)	Vent	Enables airflow to cool internal components. **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.



Component		Description
(1)	Power connector	Connects an AC adapter.
(2)	RJ-11 (modem) jack	Connects a modem cable.
(3)	USB port	Connects an optional USB device.
(4)	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.
(5)	Optical drive	Reads and writes to an optical disc.

Bottom components



Component		Description
(1)	Battery release latches (2)	Release the battery from the battery bay.
(2)	Battery bay	Holds the battery.
(3)	SIM slot (select models only)	Contains a wireless subscriber identity module (SIM). The SIM slot is located inside the battery bay.
(4)	Broadband wireless module compartment	Contains an HP Mobile Broadband Module (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.
(5)	Vents (5)	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.
(6)	Hard drive bay	Holds the hard drive. **NOTE:** Your computer has one hard drive. Depending on your computer model, the location of the hard drive varies.
(7)	Bluetooth compartment	Contains a Bluetooth device.

Component		Description
(8)	Speaker	Produces sound.
(9)	Memory module compartment	Contains an expansion memory module slot and a WLAN module (select models only). **NOTE:** 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.

Wireless antennae (select models only)

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

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)	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.
(4)	Country- or region-specific modem cable adapter (select models only)	Adapts the modem cable to a non-RJ-11 telephone jack.
(5)	Battery*	Powers the computer when the computer is not plugged into external power.

*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 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 number you need to locate documents, drivers, and support for your notebook.
  - Warranty period **(5)**. This number 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, 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 battery bay.

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