Notebook Tour

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This guide explains the computer hardware features.

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1

Components

This chapter explains the hardware features of the computer.

To see a list of installed hardware on the computer:

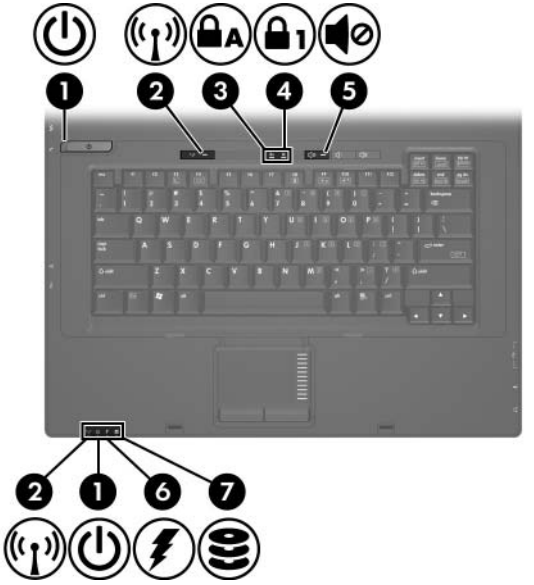
1. Select **Start > Computer > System properties**.
2. In the left task pane, click **Device Manager**.

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

Components included with the computer vary by region and by model. The illustrations in this guide identify the standard external features included on most computer models.

Top components

Lights



Component	Description
❶ Power lights* (2)	On: The computer is on. Blinking: The computer is in the Sleep state. Blinking rapidly: An HP Smart AC adapter with a higher power rating should be connected. Off: The computer is off or in Hibernation.

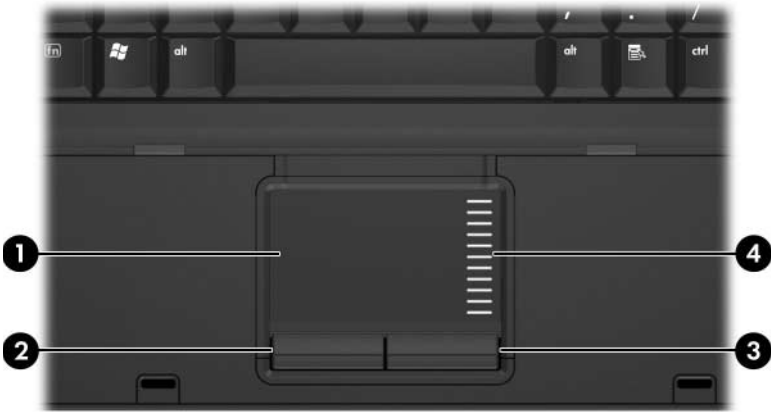
(Continued)

Component		Description
❷	Wireless lights† (2)	On: An integrated wireless device, such as a wireless local area network (LAN) device and/or a Bluetooth® device is turned on.
❸	Caps lock light	On: Caps lock is on.
❹	Num lock light	On: Num lock is on.
❺	Volume mute light	On: Computer sound is turned off.
❻	Battery light	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 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.
❼	Drive light	Blinking: 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.

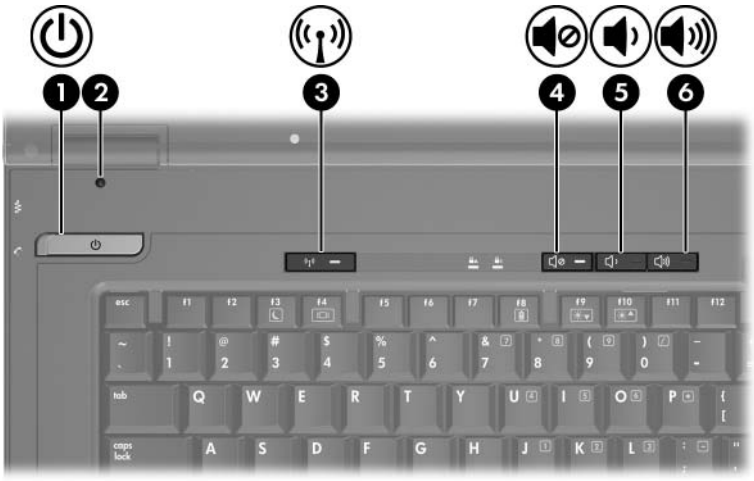
TouchPad



Component		Description
❶	TouchPad*	Moves the pointer and selects or activates items on the screen. Can be set to perform other mouse functions, such as scrolling, selecting, and double-clicking.
❷	Left TouchPad button*	Functions like the left button on an external mouse.
❸	Right TouchPad button*	Functions like the right button on an external mouse.
❹	TouchPad scroll zone*	Scrolls up or down.

*This table describes default settings.To view and change TouchPad preferences, select **Start > Control Panel > Hardware and Sound > Mouse**.

Buttons and switches



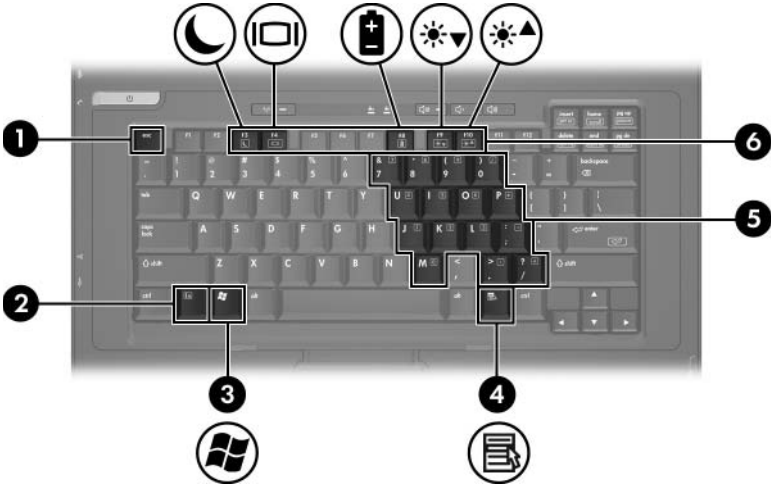
Component		Description
❶	Power button*	When the computer is off, press the power button to turn on the computer. If the computer has stopped responding and Windows® shutdown procedures cannot be used, press and hold the power button for at least 5 seconds to turn off the computer. To learn more about your power settings, select **Start > Control Panel > System and Maintenance > Power Options**.
❷	Display switch	Initiates Sleep if the display is closed while the computer is on.

(Continued)

Component		Description
❸	Wireless button*	Turns the wireless feature on or off, but does not create a wireless connection. ✎ A wireless network must be set up in order to establish a wireless connection.
❹	Volume mute button	Mutes and restores computer sound.
❺	Volume down button	Decreases speaker volume.
❻	Volume up button	Increases speaker volume.

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

Keys



Component		Description
❶	**esc** key	Displays system information when pressed in combination with the **fn** key.
❷	**fn** key	Executes frequently used system functions when pressed in combination with a function key or the **esc** key.
❸	Windows logo key	Displays the Windows Start menu.
❹	Windows applications key	Displays a shortcut menu for items beneath the pointer.
❺	Embedded numeric keypad	Can be used like the keys on an external numeric keypad.
❻	Function keys	Execute frequently used system functions when pressed in combination with the **fn** key.

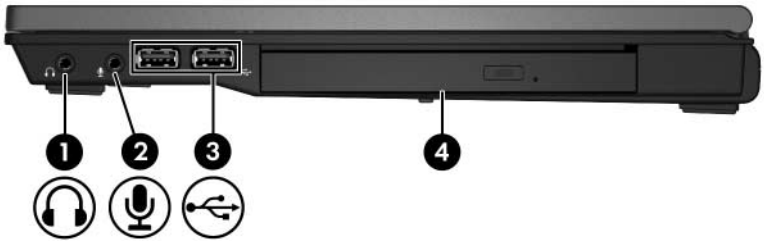
Front components

Component		Description
1	Display release latch	Opens the computer.

Rear components

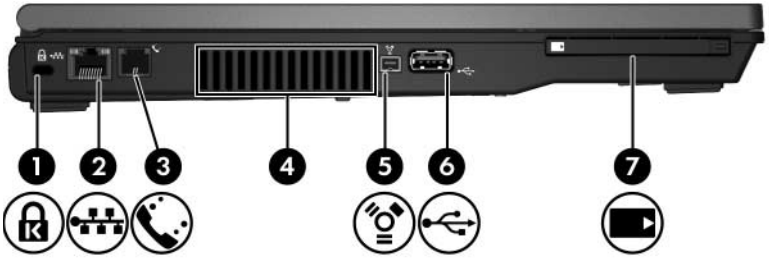
Component		Description
1	Power connector	Connects an AC adapter or an optional power adapter.
2	External monitor port	Connects an external monitor.

Right-side components



Component		Description
❶	Audio-out (headphone) jack	Produces computer sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio.
❷	Audio-in (microphone) jack	Connects an optional computer headset microphone, stereo array microphone, or a monaural microphone.
❸	USB ports (2)	Connect optional USB devices.
❹	Optical drive (select models only)	Reads an optical disc.

Left-side components

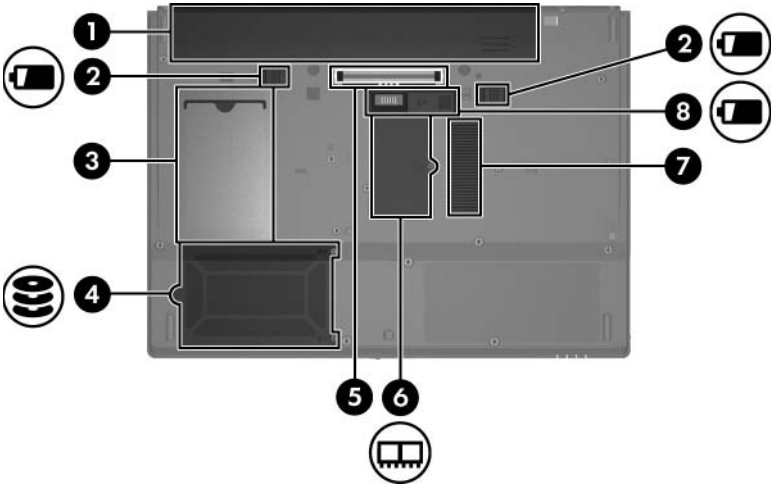


Component		Description
❶	Security cable slot	Attaches an optional security cable to the computer. △ The security cable is designed to act as a deterrent, but may not prevent the computer from being mishandled or stolen.
❷	RJ-45 (network) jack	Connects a network cable.
❸	RJ-11 (modem) jack	Connects a modem cable.

(Continued)

Component		Description
❹	Vent	Enables airflow to cool internal components. △ 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. ✎ 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.
❺	1394 port	Connects an optional IEEE 1394 device, such as a camcorder.
❻	USB port	Connects an optional USB device.
❼	PC Card slot	Supports optional Type I and Type II 32-bit (CardBus) or 16-bit PC Cards.

Bottom components



Component		Description
❶	Primary battery bay	Holds the primary battery.
❷	Primary battery release latches (2)	Release the primary battery from the battery bay.
❸	Business card holder	Holds a standard size business card.
❹	Hard drive bay	Holds the hard drive.
❺	Docking connector	Connects to an optional docking device.

(Continued)

Component		Description
❻	Expansion memory module compartment	Contains the expansion memory module slot.
❼	Vent	Enables airflow to cool internal components. △ 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. ✎ 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.
❽	Accessory battery connector	Connects an optional accessory battery.

Wireless antennae

Two wireless antennae send and receive wireless device signals. These antennae are not visible from the outside of the computer.

To see wireless regulatory notices, refer to your country's section of the *Regulatory, Safety and Environmental Notices* located in Help and Support.

For optimal transmission, keep the area immediately around the antennae free from obstruction.

Additional hardware components

Component		Description
❶	Power cord*	Connects an AC adapter to an AC outlet.
❷	HP Smart AC Adapter	Converts AC power to DC power.
❸	Primary battery*	Powers the computer when the computer is not plugged into external power.
❹	Modem cable*	Connects an internal modem to an RJ-11 telephone jack or to a country-specific modem adapter.
❺	Country-specific modem adapter (included by region as required)	Adapts the modem cable to a non-RJ-11 telephone jack.

*Modem cables, batteries, and power cords vary in appearance by region and country.

Labels

The labels affixed to the computer provide information you may need when you troubleshoot system problems or travel internationally with the computer.

The appearance and position of labels varies by model.

- Service tag—Provides the product brand and series name, product number (p/n), and serial number (s/n) of your computer. Have this information available when you contact Customer Care. The service tag label is affixed to the bottom of the computer. The information on the service tag is also available through Help and Support.
- 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 to the bottom of the computer.
- Wireless certification label(s)—Provide information about optional wireless devices and the approval markings for 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 to the bottom of the computer.

2

Specifications

Operating environment

The operating environment information in the following table may be helpful if you plan to use or transport or operate the computer in extreme environments.

Factor	Metric	U.S.
Temperature		
Operating (not writing to optical disc)	0°C to 35°C	32°F to 95°F
Operating (writing to optical disc)	5°C to 35°C	41°F to 95°F
Nonoperating	-20°C to 60°C	-4°F to 140°F
Relative humidity (noncondensing)		
Operating	10% to 90%	10% to 90%
Nonoperating	5% to 95%	5% to 95%
Maximum altitude (unpressurized)		
Operating (14.7 to 10.1 psia*)	-15 m to 3,048 m	-50 ft to 10,000 ft
Nonoperating (14.7 to 4.4 psia*)	-15 m to 12,192 m	-50 ft to 40,000 ft

*Pounds per square inch absolute (psia) is another unit of measurement for altitude.

Rated input power

The power information in this section may be helpful if you plan to travel internationally with your computer.

The computer operates on DC power, which can be supplied by an AC or a DC power source. Although the computer can be powered from a standalone DC power source, it should be powered only with an AC adapter or a DC power source supplied and approved by HP for use with this HP computer.

The computer is capable of accepting DC power within the following specifications.

Input power	Rating
Operating voltage	18.5 V dc @ 3.5 A - 65 W
Operating current	3.5 A

This product is designed for IT power systems in Norway with phase-to-phase voltage not exceeding 240 V rms.

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