# Notebook Tour

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User Guide

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# 1 Components

This chapter explains the hardware features of the computer.

To see a list of hardware installed in the computer:

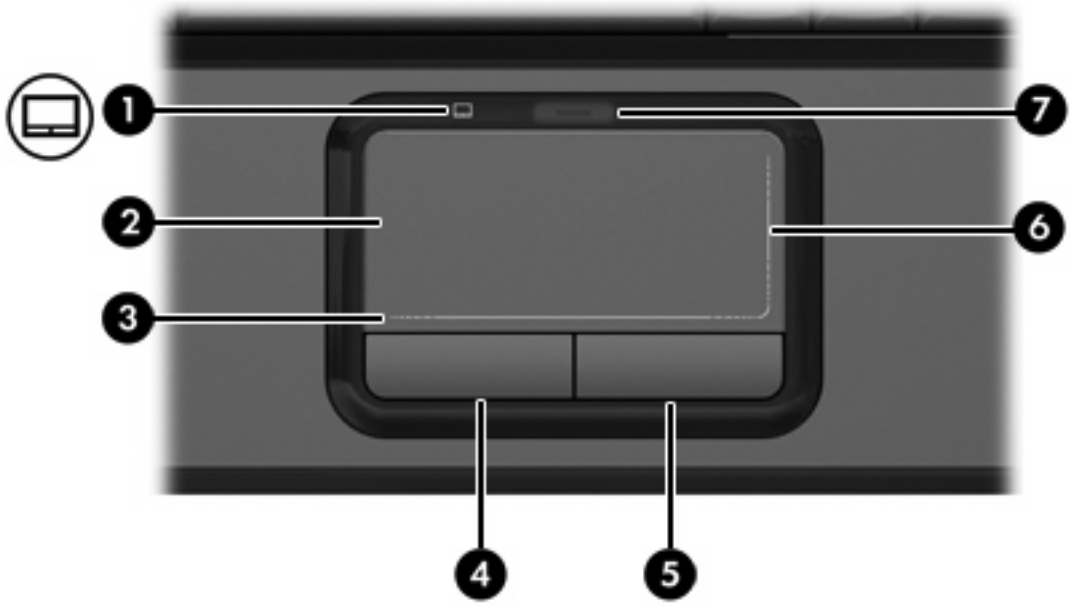
1. Select **Start > Computer > System properties**.
2. In the left pane, click **Device Manager**.

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

**NOTE** Components included with the computer may vary by region and by model. The illustrations in this chapter identify the standard features included in most computer models.

# Top components

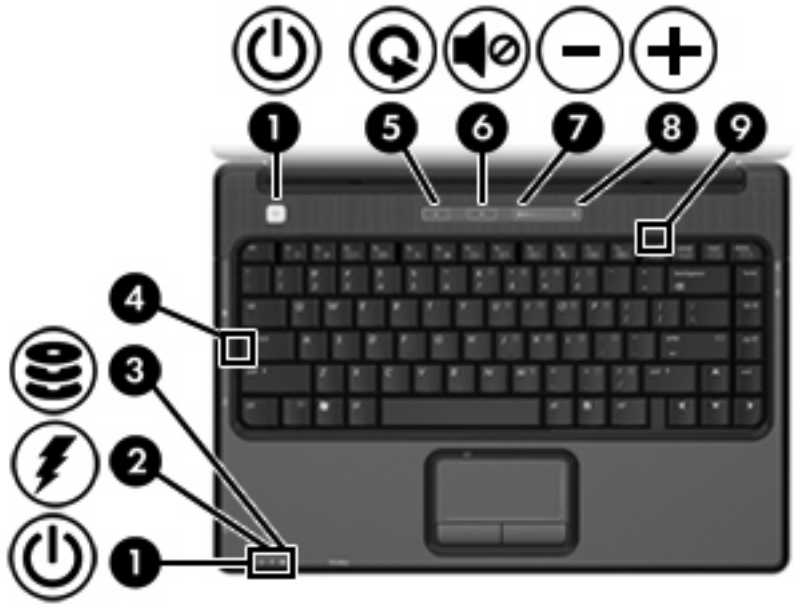
## TouchPad




| Component | | Description |
|---|---|---|
| **(1)** | TouchPad light | Blue: TouchPad is enabled.<br><br>Amber: TouchPad is disabled. |
| **(2)** | 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. |
| **(3)** | TouchPad horizontal scroll zone* | Scrolls left or right. |
| **(4)** | Left TouchPad button* | Functions like the left button on an external mouse. |
| **(5)** | Right TouchPad button* | Functions like the right button on an external mouse. |
| **(6)** | TouchPad vertical scroll zone* | Scrolls up or down. |
| **(7)** | TouchPad on/off button | Enables/disables the TouchPad. |

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

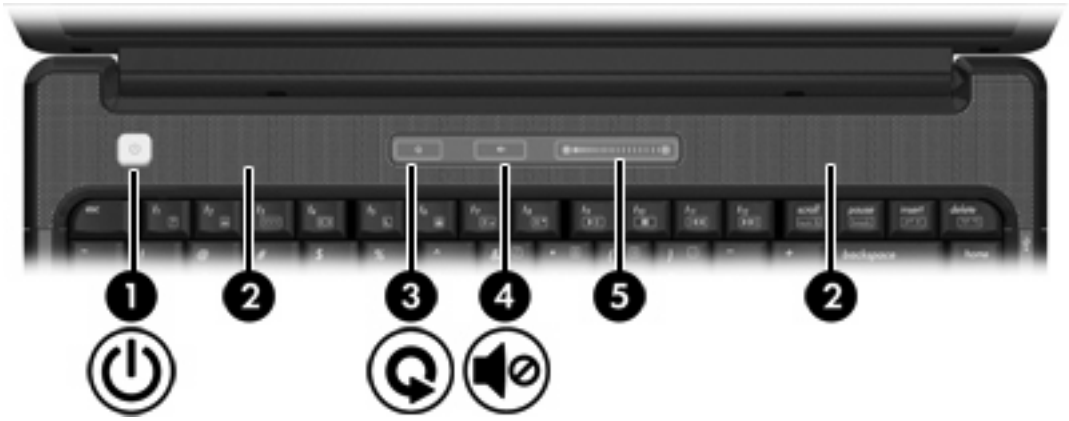
## Lights




| Component | | Description |
|---|---|---|
| **(1)** | Power lights (2)* | On: The computer is on.<br><br>Blinking: The computer is in the Sleep state.<br><br>Off: The computer is off or in Hibernation. |
| **(2)** | Battery light | On: A battery is charging.<br><br>Blinking: A battery that is the only available power source has reached a low battery level or a critical battery level.<br><br>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. |
| **(4)** | Caps lock light | On: Caps lock is on. |
| **(5)** | Media button light | Blinks once: The media button has been pressed. |
| **(6)** | Volume mute light | Blue: Computer sound is turned on.<br><br>Amber: Computer sound is turned off. |
| **(7)** | Volume down light | Blinking: The volume scroll zone is being used to decrease speaker volume. |
| **(8)** | Volume up light | Blinking: The volume scroll zone is being used to increase speaker volume. |
| **(9)** | Num lock light | On: Num lock is on or the embedded numeric keypad is enabled. |

*There are 2 power lights. Both display the same information. The light on the power button is visible only when the computer is open; the other power light is always visible on the front of the computer.

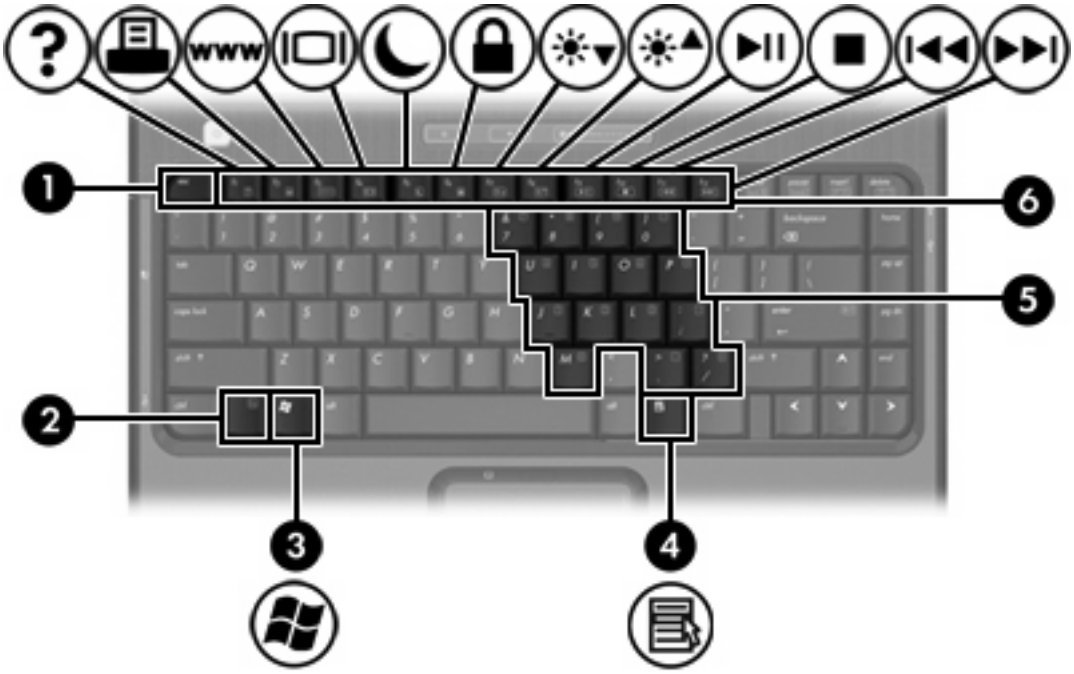
# Buttons, switches, and speakers




| Component | | Description |
|---|---|---|
| **(1)** | Power button* | When the computer is off, press the power button to turn on the computer.<br><br>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.<br><br>To learn more about your power settings, select **Start > Control Panel > System and Maintenance > Power Options**. |
| **(2)** | Speakers (2) | Produce sound. |
| **(3)** | Media button | Launches the QuickPlay program (for models with QuickPlay preinstalled). Launches the DVDPlay program (for models with DVDPlay preinstalled).<br><br>**NOTE** If the computer has been set up to require a logon password, you may be asked to log on to Windows. QuickPlay or DVDPlay launches after you log on. Refer to the QuickPlay or DVDPlay online Help for more information. |
| **(4)** | Volume mute button | Mutes and restores speaker sound. |
| **(5)** | Volume scroll zone | Adjusts volume. Slide your finger to the left to decrease volume and to the right to increase volume. Alternatively, you can tap the left half of the scroll zone to decrease volume, or you can tap the right half of the scroll zone to increase volume. |

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

## Keys



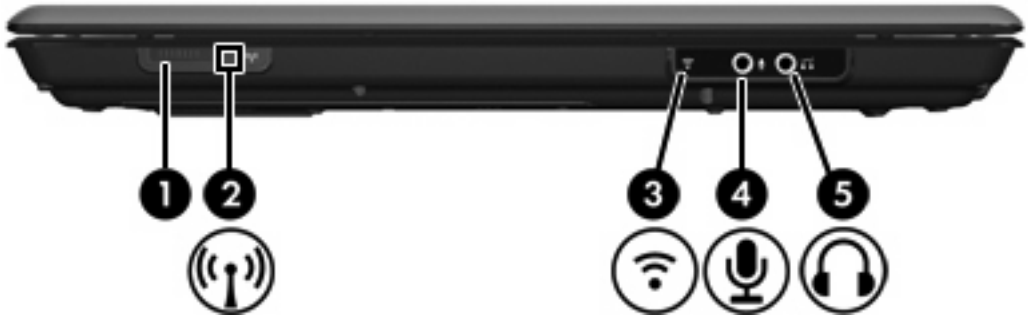

| Component | | Description |
|---|---|---|
| **(1)** | esc key | Displays system information when pressed in combination with the fn key. |
| **(2)** | fn key | Executes frequently used system functions when pressed in combination with a function key or the esc key. |
| **(3)** | Windows logo key |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

# Hotkey quick reference

| To perform this function | Press |
|---|---|
| Display system information. | fn+esc |
| Clear system information | fn+esc or press enter |
| Open Help and Support. | fn+f1 |
| Open the Print Options window. | fn+f2 |
| Open a Web browser. | fn+f3 |
| Alternate between computer display and external display. | fn+f4 |
| Initiate Hibernation. | fn+f5 |
| Initiate QuickLock. | fn+f6 |
| Decrease screen brightness. | fn+f7 |
| Increase screen brightness. | fn+f8 |
| Play, pause, or resume an audio CD or a DVD. | fn+f9 |
| Stop an audio CD or a DVD. | fn+f10 |
| Play the previous track or section on an audio CD or a DVD. | fn+f11 |
| Play the next track on an audio CD or a DVD. | fn+f12 |

# Front components

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

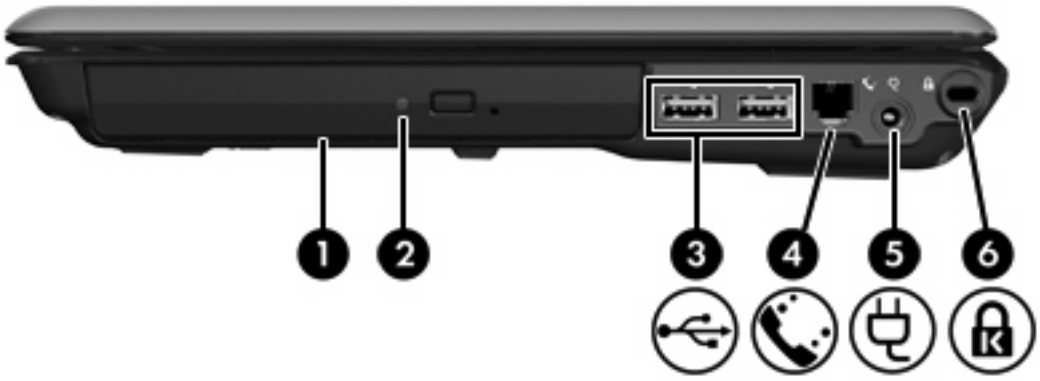



| Component | | Description |
|---|---|---|
| **(1)** | Wireless switch (select models only) | Turns the wireless feature on or off, but does not create a wireless connection.<br>**NOTE** To establish a wireless connection, a wireless network must already be set up. |
| **(2)** | Wireless light | Blue: An integrated wireless device, such as a wireless local area network (LAN) device and/or a Bluetooth® device, is turned on.<br>Amber: An integrated wireless device is turned off. |
| **(3)** | Consumer infrared lens (select models only) | Links the computer to the HP Remote Control (select models only). |
| **(4)** | Audio-in (microphone) jack | Connects an optional computer headset microphone, stereo array microphone, or monaural microphone. |
| **(5)** | Audio-out (headphone) jack | Produce sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio. |

# Rear components

| Component | Description |
|---|---|
| Vent | Enables airflow to cool internal components.<br><br>**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.<br><br>**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. |

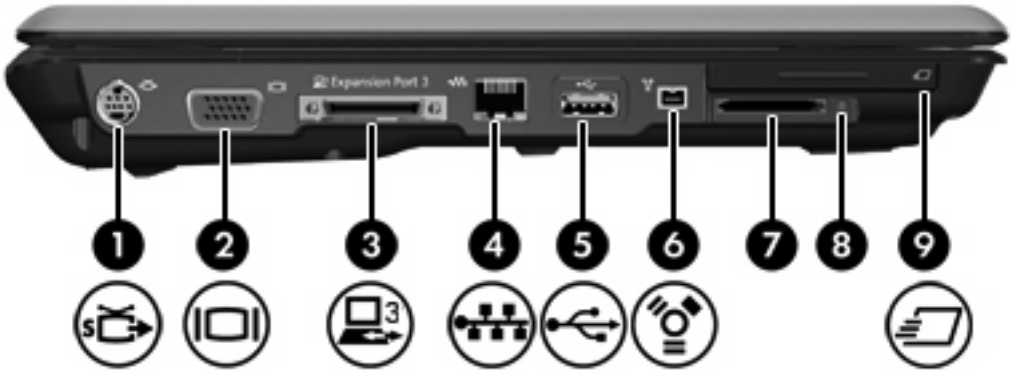
# Right-side components



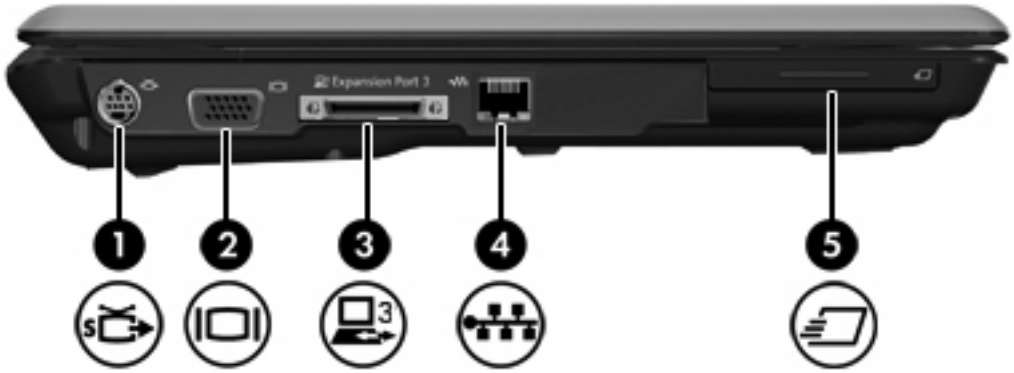

| Component | | Description |
|---|---|---|
| **(1)** | Optical drive | Reads an optical disc. |
| **(2)** | Optical drive light | Blinking: The optical drive is being accessed. |
| **(3)** | USB ports (2) | Connect optional USB devices. |
| **(4)** | RJ-11 (modem) jack | Connects a modem cable. |
| **(5)** | Power connector | Connects an AC adapter. |
| **(6)** | Security cable slot | Attaches an optional security cable to the computer.<br>**NOTE** The security cable is designed to act as a deterrent, but may not prevent the computer from being mishandled or stolen. |

# Left-side components

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

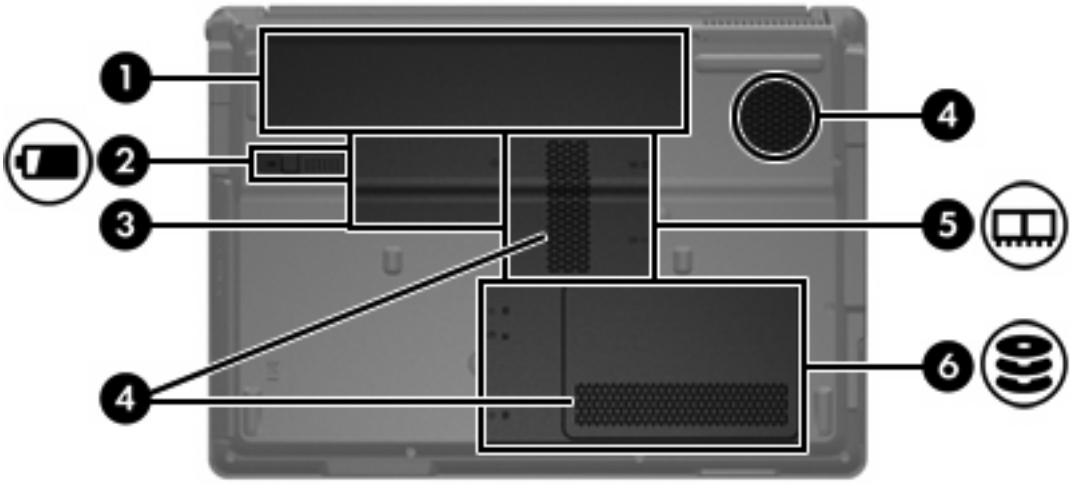



| Component | | Description |
|---|---|---|
| **(1)** | S-Video-out jack | Connects an optional S-Video device such as a television, VCR, camcorder, overhead projector, or video capture card. |
| **(2)** | External monitor port | Connects an external VGA monitor or projector. |
| **(3)** | Expansion port 3 | Connects the computer to an optional expansion product.<br>**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)** | USB port | Connect an optional USB device. |
| **(6)** | 1394 port | Connects an optional IEEE 1394 or 1394a device, such as a camcorder. |
| **(7)** | Digital Media Slot | Supports the following optional digital card formats: Secure Digital (SD) Memory Card, MultiMediaCard (MMC), Secure Digital Input/Output (SD I/O), Memory Stick (MS), Memory Stick Pro (MSP), xD-Picture Card (XD), xD-Picture Card (XD) Type M. |
| **(8)** | Digital Media Slot light | On: A digital card is being accessed. |
| **(9)** | ExpressCard slot | Supports optional ExpressCard/54 cards. |




| Component | | Description |
|---|---|---|
| **(1)** | S-Video-out jack | Connects an optional S-Video device such as a television, VCR, camcorder, overhead projector, or video capture card. |
| **(2)** | External monitor port | Connects an external VGA monitor or projector. |
| **(3)** | Expansion port 3 | Connects the computer to an optional expansion product.<br>**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)** | ExpressCard slot | Supports optional ExpressCard/54 cards. |

# Bottom components




| Component | | Description |
|---|---|---|
| **(1)** | Battery bay | Holds the battery. |
| **(2)** | Battery release latch | Releases the battery from the battery bay. |
| **(3)** | Mini Card compartment | Holds a wireless LAN device (select models only).<br><br>**NOTE** To prevent an unresponsive system and the display of a warning message, replace with only a Mini Card device authorized for use in the computer by the governmental agency that regulates wireless devices in your country. If you replace the device and then receive a warning message, remove the device to restore computer functionality. Then contact Customer Care through Help and Support. |
| **(4)** | Vents (3) | Enable airflow to cool internal components.<br><br>**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.<br><br>**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 memory module slots. |
| **(6)** | Hard drive bay | Holds the hard drive. |

# Display components

| Component | | Description |
|---|---|---|
| **(1)** | Internal microphones (2) (select models only) | Record sound.<br><br>**NOTE** If there is a microphone icon next to each microphone opening, your computer has internal microphones. |
| **(2)** | Internal display switch | Turns off the display if the display is closed while the computer is turned on. |

# 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.

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

**NOTE** 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. |

*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.

- 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 Customer Care. The service tag label is affixed to the bottom of the computer.
- Microsoft Certificate of Authenticity—Contains the Microsoft® 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)—Provide information about optional wireless devices available on select models, 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 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.

# 2 Specifications

## Operating environment

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

| Factor | Metric | U.S. |
|---|---|---|
| **Temperature** | | |
| Operating | 10°C to 35°C | 50°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 the computer.

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

| Input power | Rating |
|---|---|
| Operating voltage | 18.5 V dc to 19.0 V dc |
| 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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