

Product: 2008 HP Pavilion dv3000 and dv3500 Entertainment PC Service Repair Workshop Manual  
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# HP Pavilion dv3000 Entertainment PC and HP Pavilion dv3500 Entertainment PC Maintenance and Service 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 Product description

| Category            | Description  | dv3000 | dv3500 |
|---------------------|--|--------|--------|
| <b>Product Name</b> | <b>HP Pavilion dv3000 Entertainment PC</b>   | √      |        |
|                     | <b>HP Pavilion dv3500 Entertainment PC</b>   |        | √      |
| <b>Processors</b>   | <b>Intel® Core™2 Duo processors</b>  |        |        |
|                     | T9500 2.60-GHz processor, 6-MB L2 cache, 800-MHz front side bus (FSB)                  | √      |        |
|                     | T9400 2.53-GHz processor, 6-MB L2 cache, 1066-MHz FSB                                  |        | √      |
|                     | T9300 2.50-GHz processor, 6-MB L2 cache, 800-MHz FSB                                   | √      |        |
|                     | P8600 2.40-GHz processor, 3-MB L2 cache, 1066-MHz FSB                                  |        | √      |
|                     | P8400 2.26-GHz processor, 3-MB L2 cache, 1066-MHz FSB                                  |        | √      |
|                     | T8300 2.40-GHz processor, 3-MB L2 cache, 800-MHz FSB                                   | √      |        |
|                     | T8100 2.10-GHz processor, 3-MB L2 cache, 800-MHz FSB                                   | √      |        |
|                     | T7350 2.26-GHz processor, 3-MB L2 cache, 1066-MHz FSB                                  |        | √      |
|                     | T5900 2.20-GHz processor, 3-MB L2 cache, 800-MHz FSB                                   |        | √      |
|                     | T5850 2.16-GHz processor, 2-MB L2 cache  | √      |        |
|                     | T5800 2.80-GHz processor, 3-MB L2 cache, 800-MHz FSB                                   |        | √      |
|                     | T5750 2.00-GHz processor, 2-MB L2 cache, 667-MHz FSB                                   | √      |        |
|                     | T5550 1.80-GHz processor, 2-MB L2 cache, 667-MHz FSB                                   | √      |        |
|                     | T3200 2.00-GHz processor, 1-MB L2 cache, 800-MHz FSB                                   |        | √      |
|                     | <b>Intel Pentium Dual Core processor</b>   |        |        |
|                     | T2390 1.86-GHz processor, 1-MB L2 cache  | √      |        |
| <b>Chipsets</b>     | Northbridge: Intel PM965   | √      |        |
|                     | Northbridge: Intel PM45  |        | √      |
|                     | Southbridge: Intel ICH8m   | √      |        |
|                     | Southbridge: Intel ICH9m   |        | √      |
| <b>Graphics</b>     | nVidia NB8M-GS discrete PCI Express X16 Graphics with 256 MB of dedicated video memory | √      |        |
|                     | nVidia NB9M-GS discrete PCI Express X16 Graphics with 512 MB of dedicated video memory |        | √      |

| Category   | Description   | dv3000 | dv3500 |
|--|---|--------|--------|
| <b>Panel</b>   | 13.3-inch, WXGA with BrightView   | √      | √      |
|  | 13.3-inch, WXGA with BrightView with lighted logo on top of bezel   | √      | √      |
| <b>Memory</b>  | 2 SODIMM slots  | √      | √      |
|  | Customer-accessible/upgradable  | √      | √      |
|  | Supports up to 4 GB of system RAM   | √      |        |
|  | Supports up to 8 GB of system RAM   |        | √      |
|  | Support for DDRII dual-channel 667- and 800-MHz   | √      |        |
|  | Support for:  | √      |        |
|  | <ul style="list-style-type: none"> <li>4096-MB total system memory (2048 × 2)</li> <li>3072-MB total system memory (2048 × 1, 1024 × 1)</li> <li>2048-MB total system memory (2048 × 1)</li> <li>2048-MB total system memory (1024 × 2)</li> <li>1024-MB total system memory (1024 × 1, 512 × 2)</li> </ul> |        |        |
|  | Support for:  |        | √      |
| <ul style="list-style-type: none"> <li>8192-MB total system memory (4096 × 2)</li> <li>4096-MB total system memory (2048 × 2)</li> <li>3072-MB total system memory (2048 × 1, 1024 × 1)</li> <li>2048-MB total system memory (1024 × 2)</li> <li>2048 MB (2048 × 1)</li> <li>1024-MB total system memory (1024 × 1)</li> </ul> |   |        |        |
| <b>Hard drives</b>   | Support for 9.5-mm, 2.5-inch hard drives  | √      | √      |
|  | Support for HP ProtectSmart Hard Drive Protection   | √      | √      |
|  | Serial ATA  | √      | √      |
|  | Support for the following drives:   | √      |        |
|  | <ul style="list-style-type: none"> <li>320-GB, 5400-rpm</li> <li>250-GB, 5400-rpm</li> <li>160-GB, 5400-rpm</li> <li>120-GB, 5400-rpm</li> </ul>  |        |        |
|  | Support for the following drives:   |        | √      |
|  | <ul style="list-style-type: none"> <li>500-GB, 5400-rpm</li> <li>400-GB, 5400-rpm</li> <li>320-GB, 5400-rpm</li> <li>250-GB, 5400-rpm</li> <li>160-GB, 5400-rpm</li> </ul>  |        |        |

| Category                    | Description  | dv3000 | dv3500 |
|-----------------------------|--|--------|--------|
| <b>Optical drives</b>       | MultiBay II  | √      | √      |
|                             | Serial ATA   |        | √      |
|                             | Parallel ATA   | √      |        |
|                             | 9.5-mm tray load   | √      | √      |
|                             | Support for:   | √      |        |
|                             | <ul style="list-style-type: none"> <li>DVD±RW and CD-RW Super Multi Double-Layer Combo Drive</li> <li>DVD-CD/RW Combo Drive</li> </ul> |        |        |
|                             | Support for:   |        | √      |
|                             | <ul style="list-style-type: none"> <li>DVD±RW and CD-RW Super Multi Double-Layer Combo Drive</li> </ul>                                |        |        |
| <b>Webcam</b>               | Low light VGA webcam with activity light   | √      |        |
|                             | VGA webcam with activity light   |        | √      |
|                             | Fixed (no tilt)  | √      | √      |
| <b>Microphones</b>          | Dual-array digital microphones   | √      | √      |
| <b>Audio</b>                | HP-branded Altec Lansing speakers  | √      | √      |
| <b>Modem</b>                | 56K V.92 data/fax modem  | √      | √      |
|                             | Modem cable not included   | √      | √      |
| <b>Ethernet</b>             | Integrated 10/100/1000 network interface card (NIC)  | √      | √      |
|                             | Ethernet cable not included  | √      | √      |
| <b>Wireless</b>             | <b>Integrated wireless local area network (WLAN) options by way of wireless module:</b>  |        |        |
|                             | Intel PRO Wireless 4965 802.11a/b/g/n with Bluetooth®  | √      |        |
|                             | Intel PRO Wireless 4965 802.11a/b/g/n  | √      |        |
|                             | Intel PRO Wireless 3945 802.11a/b/g with Bluetooth   | √      |        |
|                             | Intel PRO Wireless 3945 802.11a/b/g  | √      |        |
|                             | Intel WiFi Link 5100 802.11a/b/g/n WLAN module   |        | √      |
|                             | Intel WiFi Link 5100 802.11a/b/g WLAN module   |        | √      |
|                             | Support for two wireless antennae integrated into the display assembly   |        | √      |
|                             | Support for three wireless antennae integrated into the display assembly   | √      |        |
| <b>External media cards</b> | Secure Digital (SD) Memory Card, MultiMediaCard (MMC), Memory Stick (MS), Memory Stick Pro (MSP), xD-Picture Card (XD)                 | √      | √      |
|                             | Support for miniature versions of SD, MMC, MS Duo with adapter (adapter is not included)   | √      | √      |
| <b>Ports</b>                | Audio-in (mono microphone)   | √      | √      |
|                             | Audio-out (stereo headphone) (2)   | √      | √      |
|                             | Consumer infrared  | √      | √      |

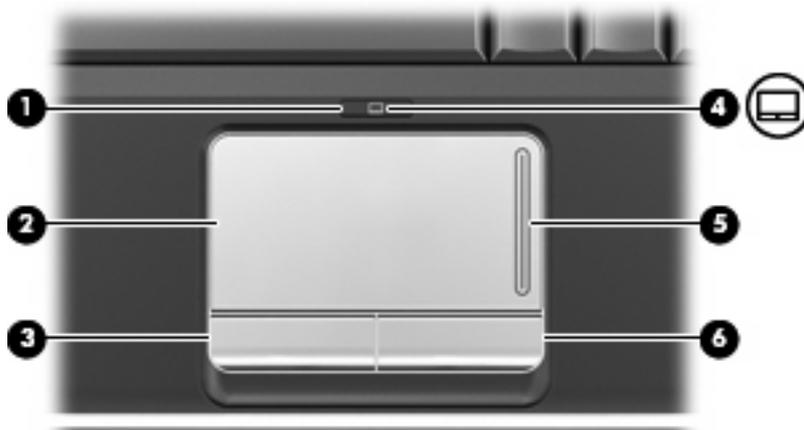
| Category                                  | Description   | dv3000 | dv3500 |
|---|---|--------|--------|
|   | Extended serial advanced technology (eSATA)   | √      | √      |
|   | High-definition multimedia interface (HDMI) supporting 1080p with high-bandwidth digital content protection (HDCP) key  | √      | √      |
|   | RJ-11 (modem)   | √      | √      |
|   | RJ-45 (Ethernet, includes link and activity lights)   | √      | √      |
|   | USB (3)   | √      |        |
|   | USB (2), USB/eSATA combo port (1)   |        | √      |
|   | VGA (Dsub, 15-pin) supporting 1600 × 1200 and 1920 × 1200 external resolution @ 75Hz, hot plug/unplug, and autodetect for correct output to wide-aspect vs. standard-aspect video | √      | √      |
|   | 2-pin, 90-W AC power  | √      | √      |
| <b>Docking</b>                            | No docking  | √      | √      |
| <b>Keyboard/<br/>pointing<br/>devices</b> | 30.48-cm (12.0-inch) keyboard   | √      | √      |
|   | Lighted keyboard  |        | √      |
|   | TouchPad  | √      | √      |
|   | 2-way scroll  | √      | √      |
|   | Taps enabled as default   | √      | √      |
| <b>Power requirements</b>                 | <ul style="list-style-type: none"> <li>6-cell, 55-Wh, 2.55-Ah Li-ion battery</li> <li>4-cell, 37-Wh, 2.55-Ah Li-ion battery</li> </ul>  | √      | √      |
|   | 90-W HP Smart AC Adapter with localized cable plug support (2-wire plug with ground pin, supports 2-pin DC connector)   | √      | √      |
| <b>Security</b>                           | Security cable slot   | √      | √      |
|   | Fingerprint reader with Digital Persona software support  | √      | √      |
| <b>Operating system</b>                   | <b>Preinstalled:</b>  |        |        |
|   | Configurable Windows Vista® with embedded QuickPlay Direct  | √      |        |
|   | Windows Vista Ultimate (64-bit)   | √      | √      |
|   | Windows Vista Premium (64-bit)  |        | √      |
|   | Windows Vista Premium (32-bit)  | √      | √      |
|   | Windows Vista Business (32-bit)   |        | √      |
| <b>Serviceability</b>                     | <b>End-user replaceable parts:</b>  |        |        |
|   | AC adapter  | √      | √      |
|   | Battery (system)  | √      | √      |
|   | Hard drive  | √      | √      |
|   | Memory module   | √      | √      |

| Category | Description   | dv3000 | dv3500 |
|----------|---------------|--------|--------|
|          | Optical drive | √      | √      |
|          | WLAN module   | √      | √      |

## 2 External component identification

### Top components

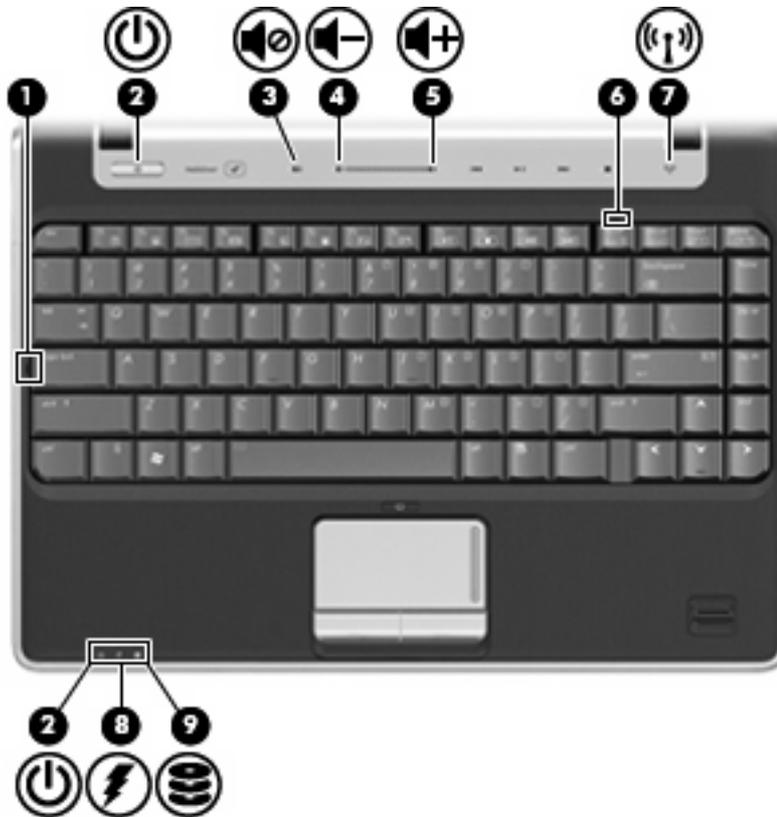
#### TouchPad



| Component                  | Description  |
|----------------------------|--|
| (1) TouchPad on/off button | Enables/disables the TouchPad.   |
| (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 light         | <ul style="list-style-type: none"><li>• White: TouchPad is enabled.</li><li>• Amber: TouchPad is disabled.</li></ul> |
| (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 and change pointing device preferences, select **Start > Control Panel > Hardware and Sound > Mouse**.

## Lights



| Component             | Description   |
|-----------------------|---|
| (1) Caps lock light   | On: Caps lock is on.  |
| (2) Power lights (2)* | <ul style="list-style-type: none"> <li>On: The computer is on.</li> <li>Blinking: The computer is in the Sleep state.</li> <li>Off: The computer is off or in Hibernation.</li> </ul>                                   |
| (3) Volume mute light | <ul style="list-style-type: none"> <li>White: Computer sound is on.</li> <li>Amber: Computer sound is off.</li> </ul>   |
| (4) Volume down light | On: The volume scroll zone is being used to decrease speaker volume.  |
| (5) Volume up light   | On: The volume scroll zone is being used to increase speaker volume.  |
| (6) Num lock light    | On: Num lock is on or the embedded numeric keypad is enabled.   |
| (7) Wireless light    | <ul style="list-style-type: none"> <li>On: An integrated wireless device, such as a wireless local area network (WLAN) device and/or a Bluetooth® device, is on.</li> <li>Off: All wireless devices are off.</li> </ul> |

| Component         | Description   |
|-------------------|---|
| (8) Battery light | <ul style="list-style-type: none"> <li>• On: A battery is charging.</li> <li>• Blinking: A battery that is the only available power source has reached a low battery level or a critical battery level.</li> <li>• 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.</li> </ul> |
| (9) 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.

## Buttons and fingerprint reader (select models only)

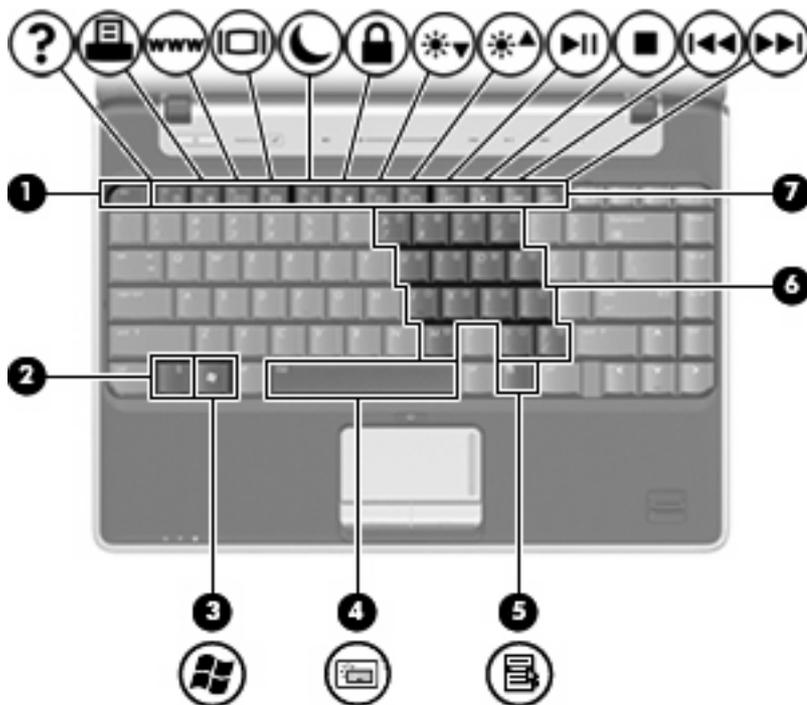


| Component              | Description   |
|------------------------|---|
| (1) Power button*      | <ul style="list-style-type: none"> <li>• When the computer is off, press the button to turn on the computer.</li> <li>• When the computer is on, press the button to initiate Sleep.</li> <li>• When the computer is in the Sleep state, press the button briefly to exit Sleep.</li> <li>• When the computer is in Hibernation, press the button briefly to exit Hibernation.</li> </ul> |
| (2) Media button       | <p>Launches the MediaSmart SmartMenu.</p> <p><b>NOTE:</b> If the computer has been set up to require a logon password, you may be asked to log on to Windows. MediaSmart starts after you log on. For more information about MediaSmart, select <b>Start &gt; Help and Support</b>.</p>   |
| (3) Volume mute button | Mutes and restores speaker sound.   |
| (4) 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 tap the minus sign on the scroll zone to decrease volume, or tap the plus sign on the scroll zone to increase volume.  |

| Component                                    | Description   |
|--|---|
| (5) Previous/rewind button                   | <ul style="list-style-type: none"> <li>Plays the previous track or chapter when the button is pressed once.</li> <li>Rewinds media when the button is pressed in combination with the <b>fn</b> key.</li> </ul> |
| (6) Play/pause button                        | Plays or pauses media.  |
| (7) Next/fast forward button                 | <ul style="list-style-type: none"> <li>Plays the next track or chapter when the button is pressed once.</li> <li>Fast forwards media when pressed in combination with the <b>fn</b> key.</li> </ul>             |
| (8) Stop button                              | Stops playback.   |
| (9) Wireless button                          | <p>Turns the wireless feature on or off but does not create a wireless connection.</p> <p><b>NOTE:</b> To establish a wireless connection, a wireless network must already be set up.</p>                       |
| (10) Fingerprint reader (select models only) | Allows a fingerprint logon to Windows, instead of a password logon.   |

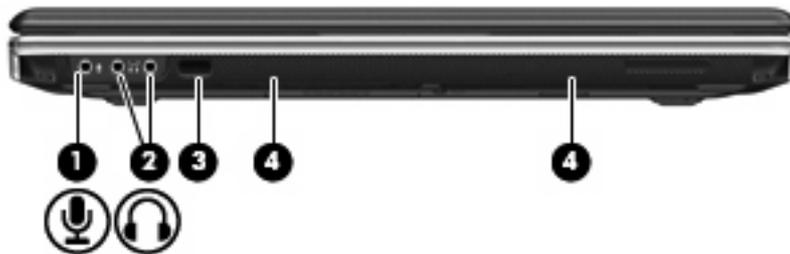
\*This table describes factory settings. For information about changing factory settings, refer to the user guides located in Help and Support.

## Keys



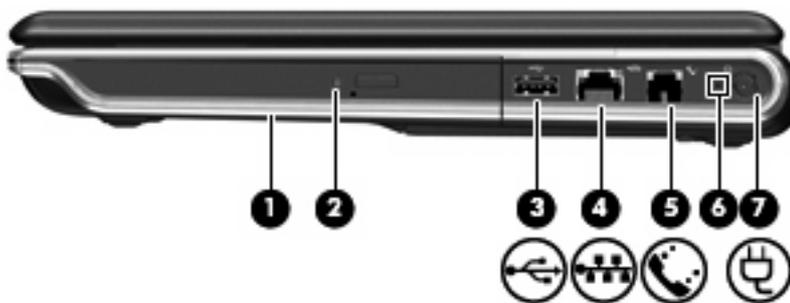
| Component                        | Description   |
|----------------------------------|---|
| (1) <a href="#">esc</a> key      | Displays system information when pressed in combination with the <a href="#">fn</a> key.                                  |
| (2) <a href="#">fn</a> key       | Executes frequently used system functions when pressed in combination with a function key or the <a href="#">esc</a> key. |
| (3) Windows logo key             | Displays the Windows Start menu.  |
| (4) Spacebar                     | Turns the keyboard lights on and off when pressed in combination with the <a href="#">fn</a> key (select models only).    |
| (5) Windows applications key     | Displays a shortcut menu for items beneath the pointer.   |
| (6) Embedded numeric keypad keys | Can be used like the keys on an external numeric keypad.  |
| (7) Function keys                | Execute frequently used system functions when pressed in combination with the <a href="#">fn</a> key.                     |

## Front components



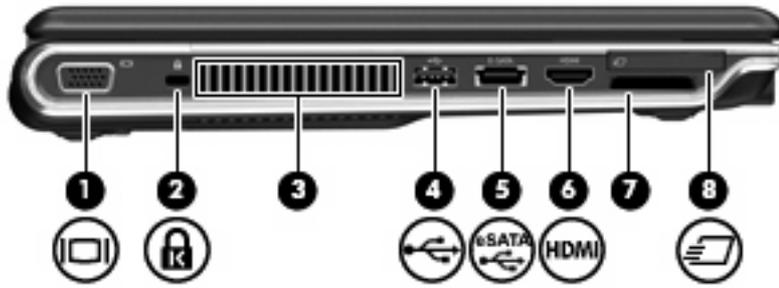
| Component                           | Description   |
|-------------------------------------|---|
| (1) Audio-in (microphone) jack      | Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.                      |
| (2) Audio-out (headphone) jacks (2) | Produce sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio. |
| (3) Consumer infrared lens          | Receives a signal from the HP Remote Control (provided with select models only).  |
| (4) Speakers (2)                    | Produce sound.  |

## Right-side components



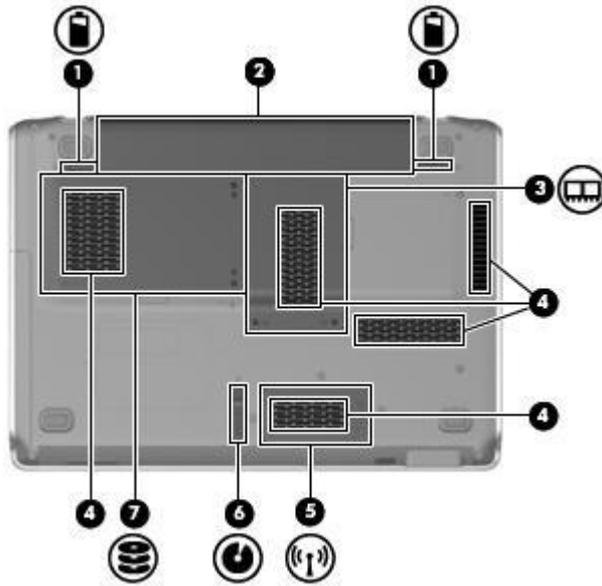
| Component                | Description   |
|--------------------------|---|
| (1) Optical drive        | Reads optical discs and, on select models, also writes to optical discs.  |
| (2) Optical drive light  | Blinking: The optical drive is being accessed.  |
| (3) USB port             | Connects an optional USB device.  |
| (4) RJ-45 (network) jack | Connects a network cable.   |
| (5) RJ-11 (modem) jack   | Connects a modem cable.   |
| (6) AC adapter light     | <ul style="list-style-type: none"> <li>On: The computer is connected to external power.</li> <li>Off: The computer is not connected to external power.</li> </ul> |
| (7) Power connector      | Connects an AC adapter.   |

## Left-side components



| Component                          | Description   |
|------------------------------------|---|
| (1) External monitor port          | Connects an external VGA monitor or projector.  |
| (2) Security cable slot            | Attaches an optional security cable to the computer.<br><b>NOTE:</b> The security cable is designed to act as a deterrent, but it may not prevent the computer from being mishandled or stolen.   |
| (3) Vent                           | Enables airflow to cool internal components.<br><b>NOTE:</b> 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) USB port                       | Connects an optional USB device.  |
| (5) eSATA/USB port                 | Connects a high-performance eSATA component, such as an eSATA external hard drive, or connects an optional USB device.  |
| (6) HDMI port (select models only) | Connects an optional video or audio device, such as a high-definition television, or any compatible digital or audio component.<br><b>NOTE:</b> Depending on your computer model, the computer may include an HDMI port or a USB port at this location. |
| (7) Digital Media Slot             | Supports the following optional digital card formats: Secure Digital (SD) Memory Card, MultiMediaCard (MMC), Memory Stick (MS), Memory Stick Pro (MSP), xD-Picture Card (XD).   |
| (8) ExpressCard slot               | Supports an optional ExpressCard/34 module.   |

## Bottom components



| Component                       | Description  |
|---------------------------------|--|
| (1) Battery release latches (2) | Release the battery from the battery bay.  |
| (2) Battery bay                 | Holds the battery.   |
| (3) Memory module compartment   | Contains the memory module slots.  |
| (4) Vents (5)                   | Enable airflow to cool internal components.  |
|                                 | <b>NOTE:</b> 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) Wireless module compartment | Holds a wireless LAN module.   |
|                                 | <b>NOTE:</b> 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. |
| (6) Optical drive release latch | Releases the optical drive.  |
| (7) Hard drive bay              | Holds the hard drive.  |

## Display components



| Component   | Description  |
|---|--|
| (1) Internal display switch                       | Turns off the display and initiates Sleep if the display is closed while the power is on.  |
| (2) Internal microphones (2) (select models only) | Record sound.<br><b>NOTE:</b> If there is a microphone icon next to each microphone opening, your computer has internal microphones. |
| (3) Webcam light                                  | On: The webcam is in use.  |
| (4) Webcam  | Records audio and video and captures still photographs.  |

## Wireless antennae

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.



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 **NOTE:** For optimal transmission, keep the areas immediately around the antennae free from obstructions.

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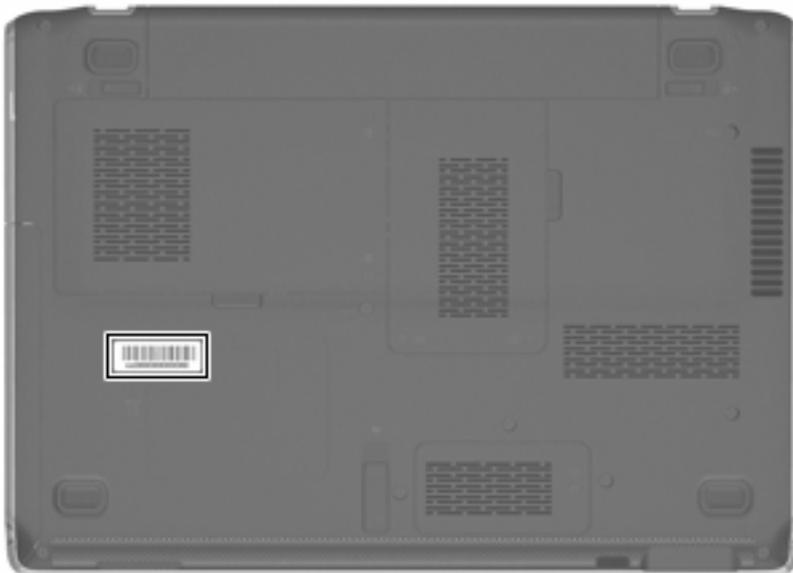
To see wireless regulatory notices, refer to the section of the *Regulatory, Safety and Environmental Notices* that applies to your country or region. These notices are located in Help and Support.

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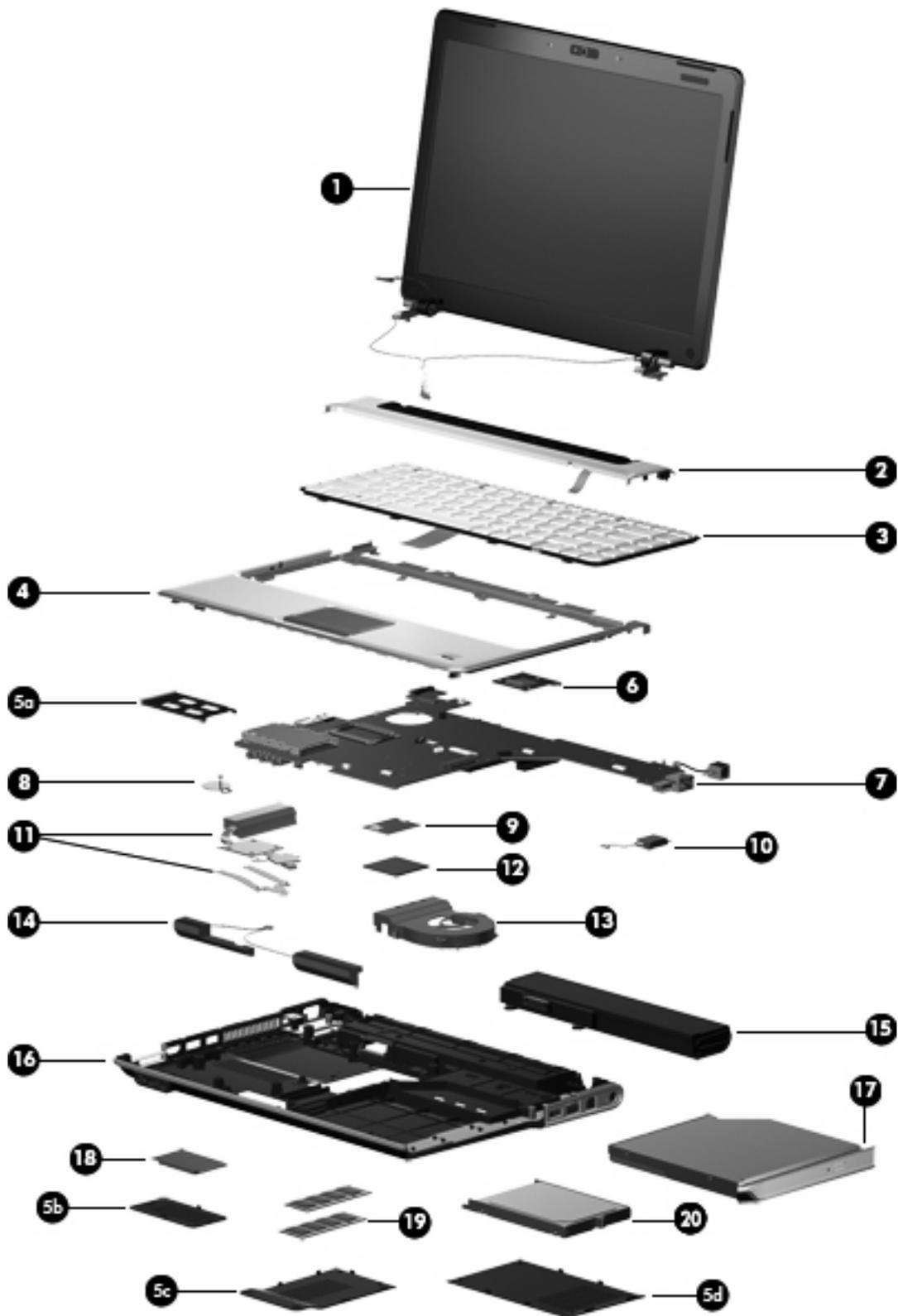
## 3 Illustrated parts catalog

### Serial number location

When ordering parts or requesting information, provide the computer serial number and model number located on the bottom of the computer.



# Computer major components



| Item | Description   | Spare part number |
|------|---|-------------------|
| (1)  | <b>13.3-inch, WXGA BrightView display assembly</b> (includes webcam/microphone module, webcam/microphone module cable, 2 microphones, and 3 wireless antenna transceivers and cables) |                   |
|      | For use in dv3000 models  | 468806-001        |
|      | For use in dv3500 models with an LCD display  | 496107-001        |
|      | For use in dv3500 models with an LED display  | 496108-001        |
| (2)  | <b>Switch cover</b> (includes LED board and cable)  |                   |
|      | For use in dv3000 models  | 468820-001        |
|      | For use in dv3500 models  | 501012-001        |
| (3)  | <b>Keyboard</b>   |                   |
|      | For use in dv3000 models:   |                   |
|      | • Japan   | 468817-291        |
|      | • South Korea   | 468817-AD1        |
|      | • Taiwan  | 468817-AB1        |
|      | • Thailand  | 468817-281        |
|      | • The United States   | 468817-001        |
|      | For use in dv3500 models:   |                   |
|      | • Brazil  | 496121-201        |
|      | • France  | 496121-051        |
|      | • French Canada   | 496121-121        |
|      | • Germany   | 496121-041        |
|      | • Greece  | 496121-151        |
|      | • International   | 496121-B31        |
|      | • Italy   | 496121-061        |
|      | • Japan   | 496121-291        |
|      | • Korea   | 496121-AD1        |
|      | • Latin America   | 496121-161        |
|      | • Norway  | 496121-DH1        |
|      | • Portugal  | 496121-131        |
|      | • Russia  | 496121-251        |
|      | • Saudi Arabia  | 496121-171        |
|      | • Spain   | 496121-071        |
|      | • Switzerland   | 496121-111        |
|      | • Taiwan  | 496121-AB1        |
|      | • Thailand  | 496121-281        |

| Item        | Description  | Spare part number |
|-------------|--|-------------------|
|             | <ul style="list-style-type: none"> <li>Turkey</li> </ul>   | 496121-141        |
|             | <ul style="list-style-type: none"> <li>United Kingdom</li> </ul>   | 496121-031        |
|             | <ul style="list-style-type: none"> <li>United States</li> </ul>  | 496121-001        |
|             | <ul style="list-style-type: none"> <li>United States, lighted keyboard</li> </ul>  | 496120-001        |
| <b>(4)</b>  | <b>Top cover</b> (includes TouchPad and cable, fingerprint reader board cable, and caps lock LED board and cable)  |                   |
|             | For use in dv3000 models   | 468819-001        |
|             | For use in dv3500 models   | 501011-001        |
|             | <b>Plastics Kit</b> (see <a href="#">Plastics Kit on page 26</a> for more information)   |                   |
|             | For use in dv3000 models   | 468821-001        |
|             | For use in dv3500 models   | 501013-001        |
| <b>(5a)</b> | <b>ExpressCard slot bezel</b>  |                   |
| <b>(5b)</b> | <b>Wireless module compartment cover</b>   |                   |
| <b>(5c)</b> | <b>Memory module compartment cover</b>   |                   |
| <b>(5d)</b> | <b>Hard drive cover</b>  |                   |
| <b>(6)</b>  | <b>Fingerprint reader board</b> (includes fingerprint reader board bracket, not illustrated)   |                   |
|             | For use only in dv3000 models  | 468831-001        |
|             | For use only in dv3500 models  | 502464-001        |
| <b>(7)</b>  | <b>System board</b> (includes replacement thermal material and power connector cable)  |                   |
|             | For use only in dv3000 models  | 468499-001        |
|             | For use only in dv3500 models  | 496097-001        |
| <b>(8)</b>  | <b>RTC battery</b> (includes double-sided tape)  | 468824-001        |
| <b>(9)</b>  | <b>Modem module</b>  |                   |
|             | <b>NOTE:</b> The modem module spare part kit does not include a modem module cable. The modem module cable is included in the Cable Kit, spare part number 468827-001 for dv3000 models, 502463-001 for dv3500 models.             |                   |
|             | For use in dv3000 models:  |                   |
|             | <ul style="list-style-type: none"> <li>For use in all countries and regions except Australia and New Zealand</li> </ul>  | 468825-001        |
|             | <ul style="list-style-type: none"> <li>For use only in Australia and New Zealand</li> </ul>  | 468825-011        |
|             | For use in dv3500 models:  |                   |
|             | <ul style="list-style-type: none"> <li>For use in all countries and regions except Australia and New Zealand</li> </ul>  | 461749-001        |
|             | <ul style="list-style-type: none"> <li>For use only in Australia and New Zealand</li> </ul>  | 461749-011        |
| <b>(10)</b> | <b>Bluetooth module</b> (includes double-sided tape)   | 398393-002        |
|             | <b>NOTE:</b> The Bluetooth module spare part kit does not include a Bluetooth module cable. The Bluetooth module cable is included in the Cable Kit, spare part number 468827-001 for dv3000 models, 502463-001 for dv3500 models. |                   |
| <b>(11)</b> | <b>Heat sink</b> (includes heat sink retention clip and replacement thermal material)  |                   |

| Item        | Description  | Spare part number |
|-------------|--|-------------------|
|             | For use in dv3000 models   | 468829-001        |
|             | For use in dv3500 models   | 501015-001        |
| <b>(12)</b> | <b>Processor</b> (include replacement thermal material)  |                   |
|             | For use in dv3000 models:  |                   |
|             | <ul style="list-style-type: none"> <li>Intel Core2 Duo T9500 2.60-GHz processor (6-MB L2 cache, 800-MHz FSB)</li> </ul>      | 459609-001        |
|             | <ul style="list-style-type: none"> <li>Intel Core2 Duo T9300 2.50-GHz processor (6-MB L2 cache, 800-MHz FSB)</li> </ul>      | 459608-001        |
|             | <ul style="list-style-type: none"> <li>Intel Core2 Duo T8300 2.40-GHz processor (3-MB L2 cache, 800-MHz FSB)</li> </ul>      | 459607-001        |
|             | <ul style="list-style-type: none"> <li>Intel Core2 Duo T8100 2.10-GHz processor (3-MB L2 cache, 800-MHz FSB)</li> </ul>      | 459606-001        |
|             | <ul style="list-style-type: none"> <li>Intel Core2 Duo T5850 2.16-GHz processor (2-MB L2 cache, 667-MHz FSB)</li> </ul>      | 482351-001        |
|             | <ul style="list-style-type: none"> <li>Intel Core2 Duo T5550 1.83-GHz processor (2-MB L2 cache, 667-MHz FSB)</li> </ul>      | 458247-001        |
|             | <ul style="list-style-type: none"> <li>Pentium Dual Core T2390 1.86-GHz processor (1-MB of L2 cache, 533-MHz FSB)</li> </ul> | 492593-001        |
|             | For use in dv3500 models:  |                   |
|             | <ul style="list-style-type: none"> <li>Intel Core2 Duo T9400 2.53-GHz processor (6-MB L2 cache, 1066-MHz FSB)</li> </ul>     | 496098-001        |
|             | <ul style="list-style-type: none"> <li>Intel Core2 Duo P8600 2.40-GHz processor (3-MB L2 cache, 1066-MHz FSB)</li> </ul>     | 496099-001        |
|             | <ul style="list-style-type: none"> <li>Intel Core2 Duo P8400 2.26-GHz processor (3-MB L2 cache, 1066-MHz FSB)</li> </ul>     | 496100-001        |
|             | <ul style="list-style-type: none"> <li>Intel Core2 Duo T7350 2.00-GHz processor (3-MB L2 cache, 1066-MHz FSB)</li> </ul>     | 501017-001        |
|             | <ul style="list-style-type: none"> <li>Intel Core2 Duo T5900 2.20-GHz processor (2-MB L2 cache, 800-MHz FSB)</li> </ul>      | 496103-001        |
|             | <ul style="list-style-type: none"> <li>Intel Core2 Duo T5800 2.00-GHz processor (2-MB L2 cache, 800-MHz FSB)</li> </ul>      | 496102-001        |
|             | <ul style="list-style-type: none"> <li>Intel Core2 Duo T3200 2.00-GHz processor (1-MB L2 cache, 800-MHz FSB)</li> </ul>      | 496104-001        |
| <b>(13)</b> | <b>Fan</b>   | 468830-001        |
| <b>(14)</b> | <b>Speakers</b>  | 468828-001        |
| <b>(15)</b> | <b>Battery</b>   |                   |
|             | For use in dv3000 models:  |                   |
|             | <ul style="list-style-type: none"> <li>6-cell, 2.55-Ah, 55-Wh Li-ion</li> </ul>  | 468816-001        |
|             | <ul style="list-style-type: none"> <li>4-cell, 2.55-Ah, 37-Wh Li-ion</li> </ul>  | 468815-001        |
|             | For use in dv3500 models:  |                   |
|             | <ul style="list-style-type: none"> <li>6-cell, 2.55-Ah, 55-Wh Li-ion</li> </ul>  | 496119-001        |
|             | <ul style="list-style-type: none"> <li>4-cell, 2.55-Ah, 37-Wh Li-ion</li> </ul>  | 496118-001        |
| <b>(16)</b> | <b>Base enclosure</b> (includes 4 base enclosure rubber feet)  |                   |
|             | For use in dv3000 models   | 468818-001        |
|             | For use in dv3500 models   | 501010-001        |
|             | <b>Rubber Foot Kit</b> (not illustrated, includes 4 base enclosure rubber feet)  |                   |
|             | For use in dv3000 models   | 468823-001        |
|             | For use in dv3500 models   | 502461-001        |

| Item        | Description  | Spare part number |
|-------------|--|-------------------|
| <b>(17)</b> | <b>Optical drive</b> (include bezel and bracket)   |                   |
|             | For use in dv3000 models:  |                   |
|             | <ul style="list-style-type: none"> <li>DVD±RW and CD-RW Super Multi, Double-Layer Combo Drive</li> </ul>   | 468813-001        |
|             | <ul style="list-style-type: none"> <li>DVD/CD-RW Combo Drive</li> </ul>  | 468812-001        |
|             | For use in dv3500 models:  |                   |
|             | <ul style="list-style-type: none"> <li>DVD±RW and CD-RW Super Multi, Double-Layer Combo Drive</li> </ul>   | 496116-001        |
|             | <ul style="list-style-type: none"> <li>DVD±RW and CD-RW Super Multi, Double-Layer Combo Drive with LightScribe</li> </ul>  | 496117-001        |
|             | <b>Optical Drive Kit</b> (not illustrated, includes bezel, bracket, and screws)  | 468814-001        |
| <b>(18)</b> | <b>WLAN module</b>   |                   |
|             | <b>Intel 4965 802.11a/b/g/n WLAN modules:</b>  |                   |
|             | <ul style="list-style-type: none"> <li>For use in Antigua and Barbuda, Argentina, Aruba, the Bahamas, Barbados, Bermuda, Brunei, Canada, the Cayman Islands, Chile, Colombia, Costa Rica, the Dominican Republic, Ecuador, El Salvador, Guam, Guatemala, Haiti, Honduras, Hong Kong, India, Indonesia, Malaysia, Mexico, Panama, Paraguay, Peru, Saudi Arabia, Taiwan, Uruguay, the United States, Venezuela, and Vietnam</li> </ul>   | 441086-001        |
|             | <ul style="list-style-type: none"> <li>For use in Austria, Azerbaijan, Bahrain, Belgium, Brazil, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Egypt, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, the Netherlands, Norway, Oman, the Philippines, Poland, Portugal, Qatar, Romania, Russia, Serbia, Singapore, Slovakia, Slovenia, South Africa, Spain, Sri Lanka, Sweden, Switzerland, Turkey, Ukraine, the United Kingdom, and Uzbekistan</li> </ul> | 441086-002        |
|             | <ul style="list-style-type: none"> <li>For use in Australia, New Zealand, Pakistan, and the People's Republic of China</li> </ul>  | 441086-003        |
|             | <ul style="list-style-type: none"> <li>For use in Japan</li> </ul>   | 441086-291        |
|             | <ul style="list-style-type: none"> <li>For use in South Korea</li> </ul>   | 441086-AD1        |
|             | <b>Intel 4965 802.11a/b/g WLAN modules:</b>  |                   |
|             | <ul style="list-style-type: none"> <li>For use in Antigua and Barbuda, Argentina, Aruba, the Bahamas, Barbados, Bermuda, Brunei, Canada, the Cayman Islands, Chile, Colombia, Costa Rica, the Dominican Republic, Ecuador, El Salvador, Guam, Guatemala, Haiti, Honduras, Hong Kong, India, Indonesia, Malaysia, Mexico, Panama, Paraguay, Peru, Saudi Arabia, Taiwan, Uruguay, the United States, Venezuela, and Vietnam</li> </ul>   | 441082-001        |
|             | <ul style="list-style-type: none"> <li>For use in Austria, Azerbaijan, Bahrain, Belgium, Brazil, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Egypt, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, the Netherlands, Norway, Oman, the Philippines, Poland, Portugal, Qatar, Romania, Russia, Serbia, Singapore, Slovakia, Slovenia, South Africa, Spain, Sri Lanka, Sweden, Switzerland, Turkey, Ukraine, the United Kingdom, and Uzbekistan</li> </ul> | 441082-002        |
|             | <ul style="list-style-type: none"> <li>For use in Australia, New Zealand, Pakistan, and the People's Republic of China</li> </ul>  | 441082-003        |
|             | <ul style="list-style-type: none"> <li>For use in Japan</li> </ul>   | 441082-291        |
|             | <b>Intel 3945 802.11a/b/g WLAN modules:</b>  |                   |
|             | <ul style="list-style-type: none"> <li>For use in Antigua and Barbuda, Argentina, Aruba, the Bahamas, Barbados, Bermuda, Brunei, Canada, the Cayman Islands, Chile, Colombia, Costa Rica, the Dominican Republic, Ecuador, El Salvador, Guam, Guatemala, Haiti, Honduras,</li> </ul>   | 451861-001        |