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2015 - 06 Rev. A00 Regulatory model: P51F | Type: P51F004 Computer model: Inspiron 15-5559







Base



Display

# 1 Power and battery-status light/hard-drive activity light

Indicates the power and battery-charge status. Press Fn+H to toggle this light between hard-drive activity light and battery-status light.

Solid white Power adapter is connected and the battery has more than 5% charge.

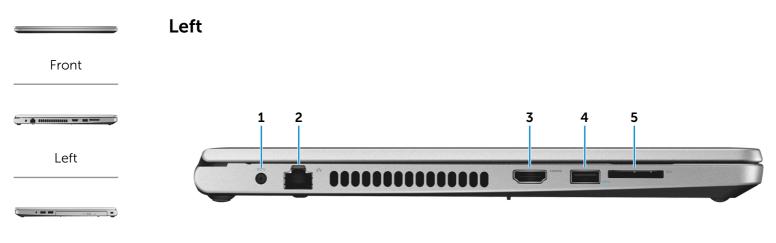
Amber Computer is running on battery and the battery has less than 5% charge.

 Power adapter is connected and the battery is fully charged.

Off

- Computer is running on battery and the battery has more than 5% charge.
- Computer is in sleep state, hibernation, or turned off.





Right



Base



#### 1 Power-adapter port

Connect a power adapter to provide power to your computer and charge the battery.

#### 2 Network port

Connect an Ethernet (RJ45) cable from a router or a broadband modem for network or internet access.

#### 3 HDMI port

Connect a TV or another HDMI-in enabled device. Provides video and audio output.

#### 4 USB 3.0 port

Connect peripherals such as storage devices, printers, and so on. Provides data transfer speeds up to 5 Gbps.

#### 5 Media-card reader

Reads from and writes to media cards.

Display



Front



Left

Right



Base



Display

### Right





#### 1 Headset port

Connect a headphone, a microphone, or a headphone and microphone combo (headset).

#### 2 USB 2.0 ports (2)

Connect peripherals such as storage devices, printers, and so on. Provides data transfer speeds up to 480 Mbps.

#### 3 Optical drive

Reads from and writes to CDs and DVDs.

#### 4 Security-cable slot

Connect a security cable to prevent unauthorized movement of your computer.



Base



# Right

Front

Left





Display

#### 1 Left-click area

Press to left click.

#### 2 Touch pad

Move your finger on the touch pad to move the mouse pointer. Tap to left click.

#### 3 Right-click area

Press to right click.

#### 4 Power button

Press to turn on the computer if it is turned off, in sleep state, or in hibernate state.

Press to put the computer in Sleep state if it is turned on.

Press and hold for 4 seconds to force shut-down the computer.

**NOTE:** You can customize the power-button behaviour in Power Options. For more information, see *Me and My Dell* at **Dell.com/support**.



Front

• •

....

Left

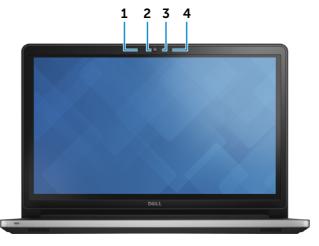
Right



Base



# Display



#### Left microphone

Provides high-quality digital sound input for audio recording, voice calls, and so on.

#### 2 Camera

1

Allows you to video chat, capture photos, and record videos.

#### 3 Camera-status light

Turns on when the camera is in use.

#### 4 Right microphone

Provides high-quality digital sound input for audio recording, voice calls, and so on.

Display



#### **Dimensions and weight**

| Height           | 23.75 mm (0.94 in)   |
|------------------|--|
| Width            | 380 mm (14.96 in)  |
| Depth            | 260.40 mm (10.25 in)   |
| Weight (minimum) | 2.30 kg (5.07 lb)  |
|                  | <b>NOTE</b> : The weight of your laptop varies depending on the configuration ordered and the manufacturing variability. |



#### System information

| Computer model | Inspiron 15-5559   |
|----------------|--|
| Processor      | <ul> <li>6th generation Intel Core i3/i5/i7 Processor</li> <li>Intel Pentium Processor</li> <li>Intel Celeron Processor</li> </ul> |
| Chipset        | Integrated in processor  |





#### Memory

| Slots                    | Two SODIMM slots                         |
|--------------------------|--|
| Туре                     | Dual-channel DDR3L                       |
| Speed                    | 1600 MHz                                 |
| Configurations supported | 2 GB, 4 GB, 6 GB, 8 GB, 12 GB, and 16 GB |



#### Ports and connectors

| External:   |   |
|-------------|---|
| Network     | One RJ45 port   |
| USB         | <ul><li>One USB 3.0 port</li><li>Two USB 2.0 ports</li></ul>                              |
| Audio/video | <ul><li>One HDMI port</li><li>One headphone and microphone combo (headset) port</li></ul> |
| Internal:   |   |
| NGFF slot   | One NGFF slot for Wi-Fi and Bluetooth combo card  |



#### Communications

Ethernet

Wireless

10/100 Mbps Ethernet controller integrated on system board

- Wi-Fi 802.11ac
- Wi-Fi 802.11b/g/n
- Bluetooth 4.0





#### Video

| Controller: |                       |  |
|-------------|-----------------------|--|
| Integrated  | Intel HD Graphics 520 |  |
|             | Intel HD Graphics 510 |  |
| Discrete    | AMD Radeon R5 M335    |  |
| Memory:     |                       |  |
| Integrated  | Shared system memory  |  |
| Discrete    | Up to 4 GB DDR3L      |  |





#### Audio

| Controller      | Realtek ALC3234 with Waves MaxxAudio |
|-----------------|--------------------------------------|
| Speakers        | Two                                  |
| Speaker output: |                                      |
| Average         | 2 W                                  |
| Peak            | 2.2 W                                |
| Microphone      | Digital array-microphones            |
| Volume controls | Media-control shortcut keys          |





#### Storage

| Interface     | SATA 6 Gbps   |
|---------------|---|
| Hard drive    | One 2.5-inch drive (supports Intel Smart Response Technology) |
| Optical drive | One 9.5 mm DVD +/- RW drive                                   |





#### Media-card reader

Туре

Cards supported

One SD card slot

SD card





#### Display

| Туре                  |                       |          | <ul> <li>15.6-inch HD To</li> <li>15.6-inch HD Nc</li> <li>15.6-inch FHD N</li> <li>15.6-inch FHD To</li> </ul> | on-touch<br>on-touch    |                         |               |                         |
|-----------------------|-----------------------|----------|---|-------------------------|-------------------------|---------------|-------------------------|
| Refresh rate          |                       |          | 60 Hz   |                         |                         |               |                         |
| Operating angle       | :                     |          | 0 degrees (closed)  | to 135 degrees          |                         |               |                         |
| Controls              |                       |          | Brightness can be o   | controlled using sh     | nortcut keys.           |               |                         |
|                       |                       |          | HD Touch  | HD Non-touch            | FHD Non-                | touch FHI     | ) Touch                 |
| Resolution (max       | imum)                 |          | 1366 x 768  | 1366 x 768              | 1920 x 108              | 0 192         | 0 x 1080                |
| Pixel pitch           |                       |          | 0.252 mm  | 0.252 mm                | 0.179 mm                | 0.17          | '9 mm                   |
| Dimensions:           |                       |          |   |                         |                         |               |                         |
| Height                |                       |          | 225.06 mm<br>(8.86 in)  | 224.30 mm<br>(8.83 in)  | 223.80 mm<br>(8.81 in)  | 223           | .06 mm<br>6 in)         |
| Width                 |                       |          | 366.63 mm<br>(14.43 in)   | 360 mm<br>(14.17 in)    | 359.50 mm<br>(14.15 in) | 500           | .63 mm<br>43 in)        |
| Diagonal              |                       |          | 396.24 mm<br>(15.60 in)   | 396.24 mm<br>(15.60 in) | 396.24 mm<br>(15.60 in) |               | .24 mm<br>60 in)        |
| Dimensions and weight | System<br>information | Memory   | Ports and connectors  | Communications          | Video                   | Audio         | Storage                 |
|                       |                       |          |   | R                       |                         |               |                         |
| Media-card<br>reader  | Display               | Keyboard | Camera  | Touch pad               | Battery                 | Power adapter | Computer<br>environment |



#### Keyboard

| Туре          | <ul><li>Standard keyboard</li><li>Backlit keyboard (optional)</li></ul>  |
|---------------|--|
| Shortcut keys | Some keys on your keyboard have two symbols on them. These keys can be<br>used to type alternate characters or to perform secondary functions. To type<br>the alternate character, press Shift and the desired key. To perform secondary<br>functions, press Fn and the desired key. |
|               | <b>NOTE</b> : You can change the behavior of the shortcut keys by pressing Fn+Esc or by changing <b>Function Key Behavior</b> in BIOS setup program.   |

List of shortcut keys.



# **Keyboard**

## Shortcut keys

| F1<br>▲×                 | Mute audio                           | Fn + PrtScr | Turn off/on wireless  |
|--------------------------|--------------------------------------|-------------|---|
| <b>F2</b><br>◀)          | Decrease volume                      | Fn + Insert | Sleep   |
| <b>F3</b><br><b>◄</b> ₩) | Increase volume                      | Fn + Esc    | Toggle Fn-key lock  |
| F4                       | Play previous track/chapter          | Fn + H      | Toggle between power and<br>battery-status light/hard-drive<br>activity light |
| (F5<br>▶II               | Play/Pause                           | Fn + Ctrl   | Open application menu   |
| F6<br>►►                 | Play next track/chapter              | Fn + B      | Pause/Break   |
| F8                       | Switch to external display           | Fn + R      | System request  |
| F9<br>p                  | Search                               | Fn + S      | Toggle scroll lock  |
| F10                      | Toggle keyboard backlight (optional) |             |   |
| F11<br>                  | Decrease brightness                  |             |   |
| F12                      | Increase brightness                  |             |   |



#### Camera

| Resolution:            |                                     |
|------------------------|-------------------------------------|
| Still image            | 0.92 megapixel                      |
| Video                  | 1280 x 720 (HD) at 30 fps (maximum) |
| Diagonal viewing angle | 74 degrees                          |





#### Touch pad

| Resolution: |                  |
|-------------|------------------|
| Horizontal  | 1211 dpi         |
| Vertical    | 1267 dpi         |
| Dimensions: |                  |
| Width       | 105 mm (4.13 in) |
| Height      | 80 mm (3.15 in)  |





#### Battery

| Туре   | <ul> <li>4 cell "smart" lithium ion (40 WHr)</li> <li>4 cell "smart" lithium ion (47 WHr)</li> </ul>            |
|--|---|
| Dimensions:  |   |
| Width  | 270 mm (10.63 in)   |
| Depth  | 37.50 mm (1.48 in)  |
| Height   | 20 mm (0.79 in)   |
| Weight (maximum)                                     | <ul> <li>40 WHr-0.25 kg (0.55 lb)</li> <li>47 WHr-0.26 kg (0.57 lb)</li> </ul>                                  |
| Voltage  | 14.8 VDC  |
| Charging time when the computer is off (approximate) | 4 hours   |
| Operating time                                       | Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions. |
| Life span (approximate)                              | 300 discharge/charge cycles   |
| Temperature range:                                   |   |
| Operating  | 0°C to 35°C (32°F to 95°F)  |
| Storage  | –40°C to 65°C (–40°F to 149°F)  |
| Coin-cell battery                                    | CR-2032   |
|  |   |
| Dimensions and System Memory Memory                  | ry Ports and connectors Communications Video Audio Storage  |
|  |   |
| Media-card<br>reader Display Keyboa                  | ard Camera Touch pad Battery Power adapter Computer environment   |



#### **Power adapter**

| Туре                      | <ul> <li>45 W</li> <li>65 W</li> </ul> |
|---------------------------|--|
| Input voltage             | 100 VAC-240 VAC                        |
| Input frequency           | 50 Hz-60 Hz                            |
| Input current (maximum):  |  |
| 45 W                      | 1.30 A                                 |
| 65 W                      | 1.60 A/1.70 A                          |
| Output current (maximum): |  |
| 45 W                      | 2.31 A                                 |
| 65 W                      | 3.34 A                                 |
| Rated output voltage      | 19.50 VDC                              |
| Temperature range:        |  |
| Operating                 | 0°C to 40°C (32°F to 104°F)            |
| Storage                   | -40°C to 70°C (-40°F to 158°F)         |



#### **Computer environment**

| Airborne contaminant level  | G1 as defined by ISA-S71.04-1985           |  |  |
|-----------------------------|--|--|--|
|                             | Operating                                  | Storage                                      |  |
| Temperature range           | 0°C to 35°C (32°F to 95°F)                 | –40°C to 65°C (–40°F to 149°F)               |  |
| Relative humidity (maximum) | 10% to 90% (non-condensing)                | 0% to 95% (non-condensing)                   |  |
| Vibration (maximum)*        | 0.66 GRMS                                  | 1.30 GRMS                                    |  |
| Shock (maximum)             | 110 G <sup>†</sup>                         | 160 G <sup>‡</sup>                           |  |
| Altitude (maximum)          | –15.2 m to 3048 m<br>(–50 ft to 10,000 ft) | –15.2 m to 10,668 m<br>(–50 ft to 35,000 ft) |  |

\* Measured using a random vibration spectrum that simulates user environment.

† Measured using a 2 ms half-sine pulse when the hard drive is in use.

‡ Measured using a 2 ms half-sine pulse when the hard-drive head is in parked position.

