Inspiron 14

5000 Series

Views

Specifications

2015 - 08   Rev. A00

Regulatory model: P49G | Type: P49G003

Computer model: Inspiron 14-5457

NOTE: The images in this document may differ from your computer depending on the configuration you ordered.

Views

Front

Left

Right

Base

Display

Front

1   Power and battery-status light

Indicates the power and battery status of the computer.

Solid white	Power adapter is connected and the battery has more than 5% charge.
Solid yellow	Computer is running on battery and the battery has less than 5% charge.
Off	• Power adapter is connected and the battery is fully charged. • Computer is running on battery and the battery has more than 5% charge. • Computer is in sleep state, hibernation, or turned off.

2   Hard-drive activity light

Turns on when the computer reads from or writes to the hard drive.

Views

Front

Left

Right

Base

Display

Left

1   **2**   **3**   **4**

1   Security-cable slot

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

2   Power-adapter port

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

3   USB 2.0 port

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

4   Media-card reader

Reads from and writes to media cards.

Front

Left

Right

Base

Display

Right

1   2   3   4
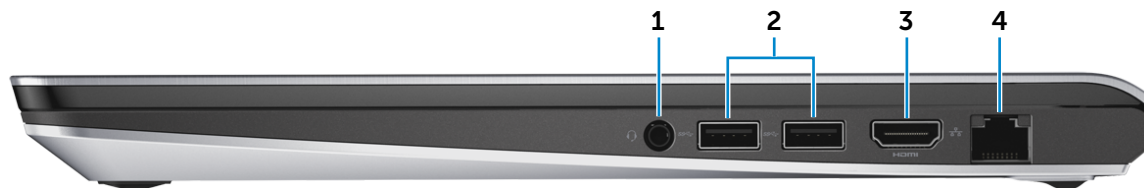
1   **Headset port**

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

2   **USB 3.0 ports (2)**

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

3   **HDMI port**

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

4   **Network port**

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

Front

Left

Right

Base

Display

Base

4

1 **2** **3**
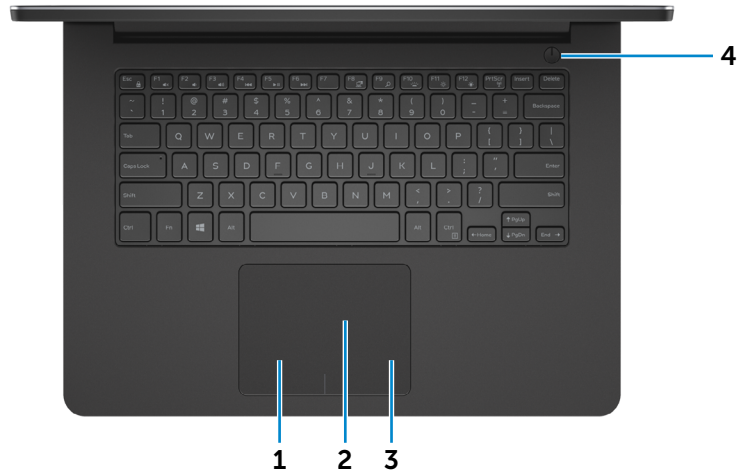
1   Left-click area

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 or in sleep 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 behavior in Power Options. For more information, see *Me and My Dell* at **www.dell.com/support/manuals**.

Display

1 Left microphone	**3** Camera
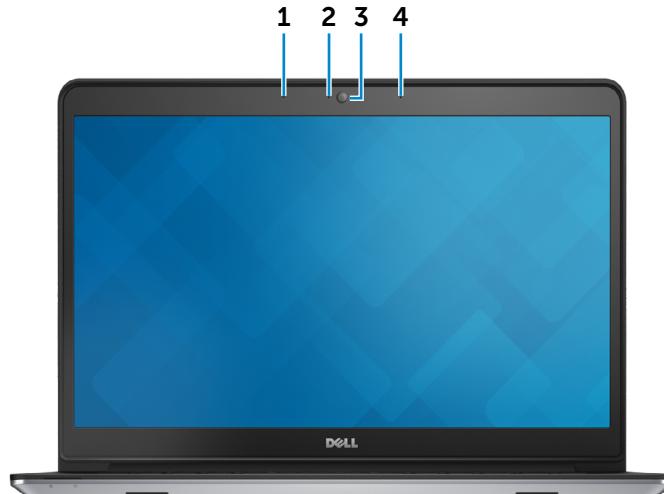
1   **Left microphone**

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

2   **Camera-status light**

Turns on when the camera is in use.

3   **Camera**

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

4   **Right microphone**

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

Front

Left

Right

Base

Display

Dimensions and weight

Height	21.60 mm (0.85 in)
Width	342 mm (13.46 in)
Depth	246 mm (9.69 in)
Weight (maximum)	1.93 kg (4.25 lb)
	NOTE: The weight of your laptop varies depending on the configuration ordered and manufacturing variability.
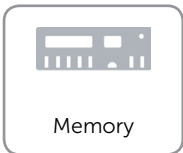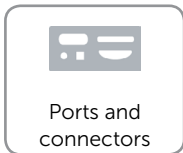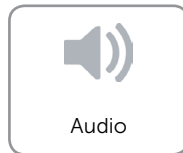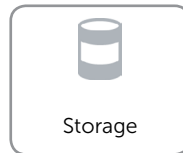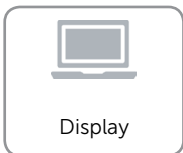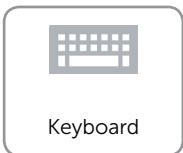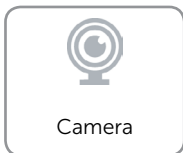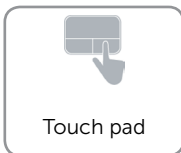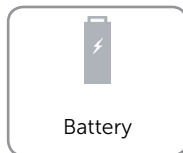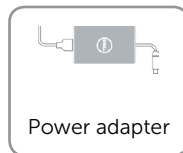
Specifications

System information

Computer model	Inspiron 14-5457
Processor	• 6th Generation Intel Core i3 ULV • 6th Generation Intel Core i5 ULV • 6th Generation Intel Core i7 ULV • Intel Pentium Dual Core
Chipset	Integrated in processor

Dimensions and weight

System information

Memory

Ports and connectors

Communications

Video

Audio

Storage

Media-card reader

Display

Keyboard

Camera

Touch pad

Battery

Power adapter

Computer environment

Memory

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

Dimensions and weight	System information	Memory	Ports and connectors	Communications	Video	Audio	Storage
Media-card reader	Display	Keyboard	Camera	Touch pad	Battery	Power adapter	Computer environment
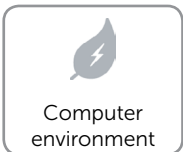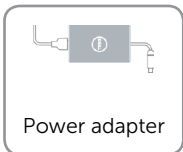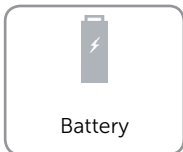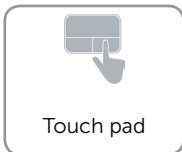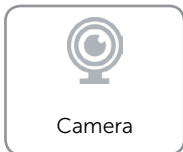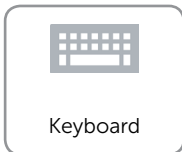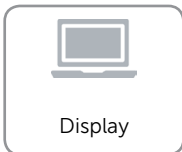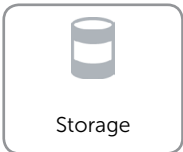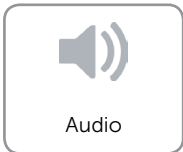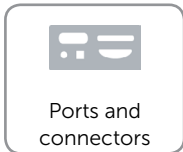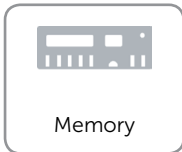
Specifications

Ports and connectors

External:	
Network	One RJ45 port
USB	• One USB 2.0 port • Two USB 3.0 ports
Audio/video	• One HDMI port • One headset port
Internal:	
M.2	One M.2 slot for Wi-Fi, Intel WiDi (optional), and Bluetooth combo card

Dimensions and weight	System information	Memory	Ports and connectors	Communications	Video	Audio	Storage
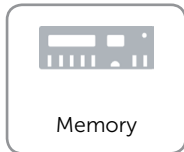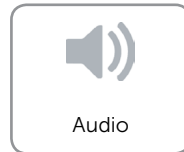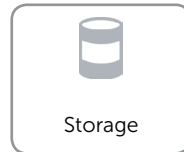
Media-card reader	Display	Keyboard	Camera	Touch pad	Battery	Power adapter	Computer environment
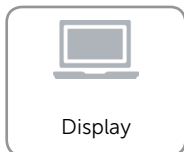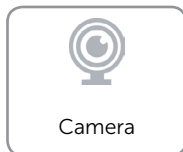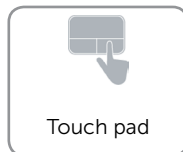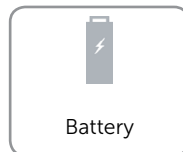
Communications

Ethernet	10/100 Mbps Ethernet controller integrated on system board
Wireless	• Wi-Fi 802.11ac • Wi-Fi 802.11b/g/n • Bluetooth 4.0 • Intel WiDi (optional)

Dimensions and weight

System information

Memory

Ports and connectors

Communications

Video

Audio

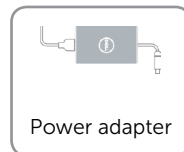Storage

Media-card reader

Display

Keyboard

Camera

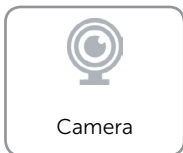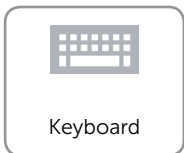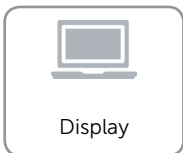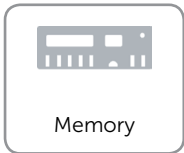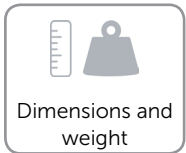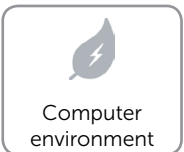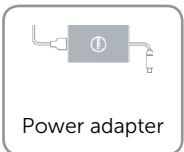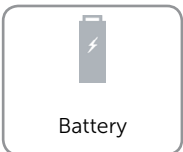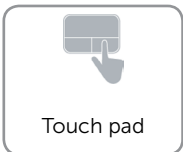Touch pad

Battery

Power adapter

Computer environment
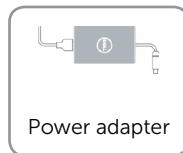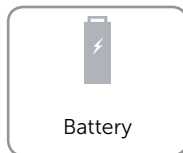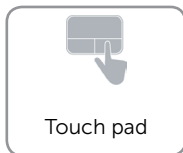
Specifications

Video

Controller:	
Integrated	Intel HD Graphics 520
Discrete	NVIDIA GeForce 930M
Memory:	
Integrated	Shared system memory
Discrete	• 2 GB DDR3 • 4 GB DDR3

Dimensions and weight	System information	Memory	Ports and connectors	Communications	Video	Audio	Storage
Media-card reader	Display	Keyboard	Camera	Touch pad	Battery	Power adapter	Computer environment
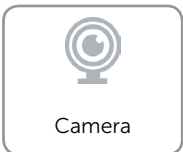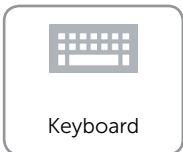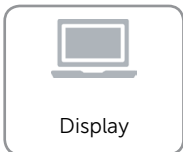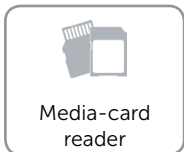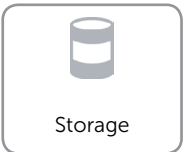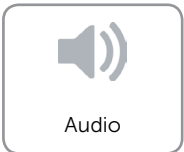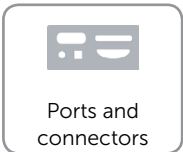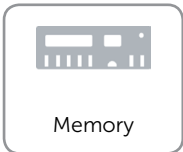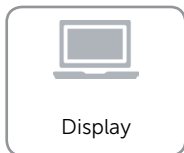
Audio

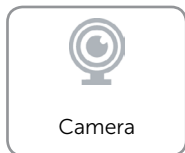|	
Controller	Realtek ALC3234CG with Waves MaxxAudio Pro
Speakers	Two
Speaker output:	
Average	2 W
Peak	2.5 W
Microphone	Digital array-microphones
Volume controls	Media-control shortcut keys

Dimensions and weight | System information | Memory | Ports and connectors | Communications | Video | Audio | Storage

Media-card reader | Display | Keyboard | Camera | Touch pad | Battery | Power adapter | Computer environment
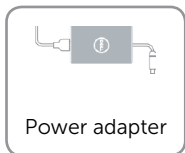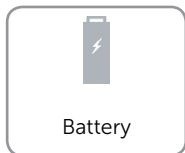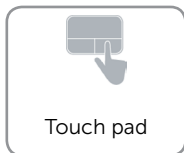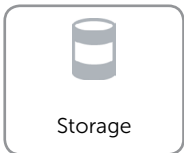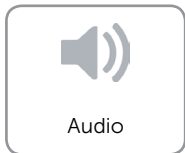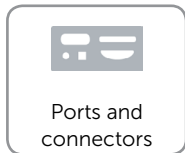
Specifications

Storage

Interface	SATA 6 Gbps
Hard drive	One 2.5-inch drive (supports Intel Smart Response Technology)

Dimensions and weight | System information | Memory | Ports and connectors | Communications | Video | Audio | Storage

Media-card reader | Display | Keyboard | Camera | Touch pad | Battery | Power adapter | Computer environment

Specifications

Media-card reader

Type	One 5-in-1 slot
Cards supported	• SD • SD Extended Capacity (SDXC) with Ultra High Speed (UHS) • SD High-Capacity (SDHC) • Memory Stick • Memory Stick PRO

Dimensions and weight

System information

Memory

Ports and connectors

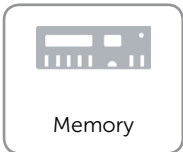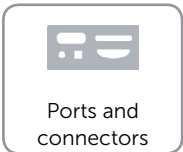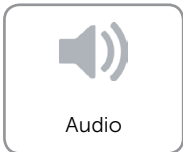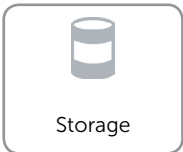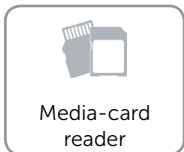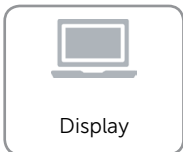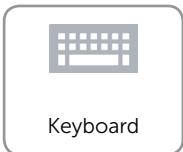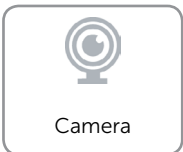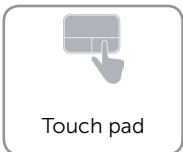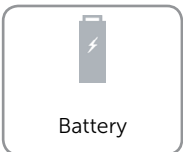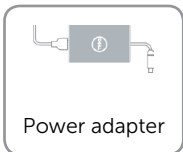Communications

Video

Audio

Storage

Media-card reader

Display

Keyboard

Camera

Touch pad

Battery

Power adapter
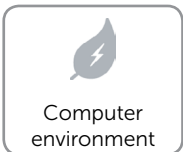
Computer environment

Specifications

Display

Type	14-inch HD
Resolution (maximum)	1366 x 768
Pixel pitch	0.2265 mm
Dimensions:	
Height	173.95 mm (6.85 in)
Width	309.40 mm (12.18 in)
Diagonal	355.60 mm (14 in)
Refresh rate	60 Hz
Operating angle	0 degree (closed) to 135 degrees
Controls	Brightness can be controlled using shortcut keys

Dimensions and weight	System information	Memory	Ports and connectors	Communications	Video	Audio	Storage

Media-card reader	Display	Keyboard	Camera	Touch pad	Battery	Power adapter	Computer environment
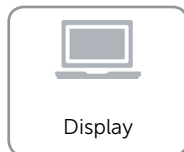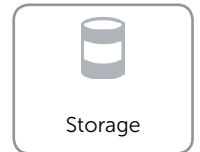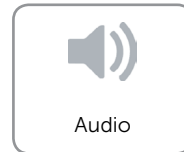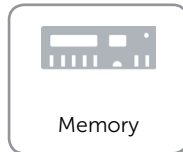
Specifications

Keyboard

Type	• Standard keyboard • Backlit keyboard (optional)
Shortcut keys	Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. To type the alternate character, press Shift and the desired key. To perform secondary functions, press Fn and the desired key. **NOTE**: You can change the behavior of the shortcut keys by pressing Fn+Esc or by changing **Function Key Behavior** in system setup program. List of shortcut keys.

Dimensions and weight

System information

Memory

Ports and connectors

Communications

Video

Audio

Storage

Media-card reader
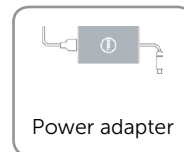
Display

Keyboard

Camera

Touch pad

Battery

Power adapter
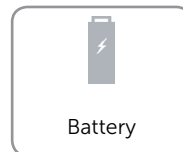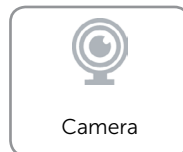
Computer environment
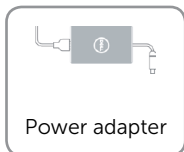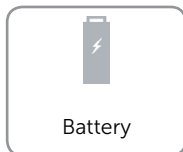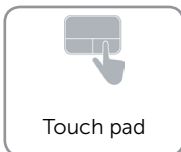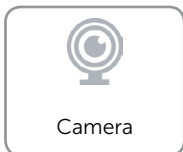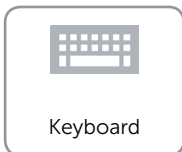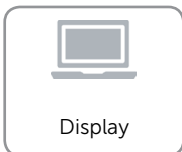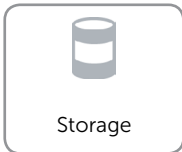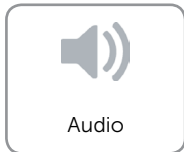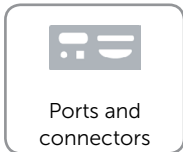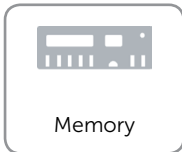
Shortcut keys

F1 🔇	Mute audio
F2 🔉	Decrease volume
F3 🔊	Increase volume
F4 ⏮	Play previous track/chapter
F5 ⏯	Play/Pause
F6 ⏭	Play next track/chapter
F8	Switch to external display
F9 🔍	Search
F10	Toggle keyboard backlight (optional)
F11 ☼	Decrease brightness
F12 ☀	Increase brightness

Fn + PrtScr	Turn off/on wireless
Fn + B	Pause/Break
Fn + Insert	Sleep
Fn + S	Toggle Scroll Lock
Fn + Esc	Toggle Fn-key lock

Camera

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

Dimensions and weight	System information	Memory	Ports and connectors	Communications	Video	Audio	Storage
Media-card reader	Display	Keyboard	Camera	Touch pad	Battery	Power adapter	Computer environment

Touch pad

Resolution:	
Horizontal	1260 dpi
Vertical	1207 dpi
Dimensions:	
Width	105 mm (4.13 in)
Height	80 mm (3.15 in)

Dimensions and weight | System information | Memory | Ports and connectors | Communications | Video | Audio | Storage
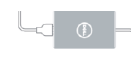
Media-card reader | Display | Keyboard | Camera | Touch pad | Battery | Power adapter | Computer environment

Specifications

Battery

	3 cell	4 cell
Type	• 3-cell smart lithium ion (43.50 WHr) • 4-cell smart lithium ion (58 WHr)	
Dimensions:		
Width	208.25 mm (8.20 in)	208.25 mm (8.20 in)
Depth	124.70 mm (4.91 in)	124.70 mm (4.91 in)
Height	7.80 mm (0.31 in)	7.80 mm (0.31 in)
Weight (maximum)	0.28 kg (0.62 lb)	0.35 kg (0.77 lb)
Voltage	11.10 VDC	7.40 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	

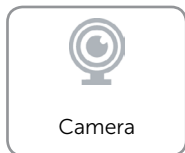|							
Dimensions and weight	System information	Memory	Ports and connectors	Communications	Video	Audio	Storage
Media-card reader	Display	Keyboard	Camera	Touch pad	Battery	Power adapter	Computer environment
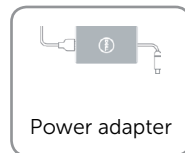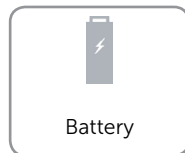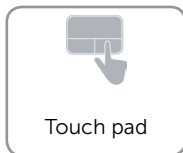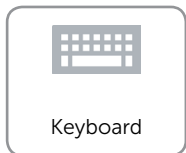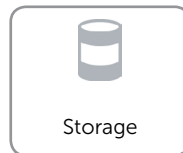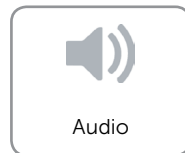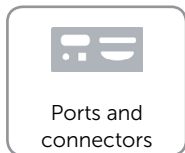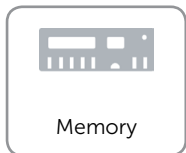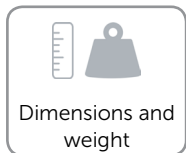
Specifications

Power adapter

Type	65 W
Input voltage	100 VAC–240 VAC
Input frequency	50 Hz–60 Hz
Input current	1.50 A
Output current	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)

Dimensions and weight	System information	Memory	Ports and connectors	Communications	Video	Audio	Storage
Media-card reader	Display	Keyboard	Camera	Touch pad	Battery	Power adapter	Computer environment
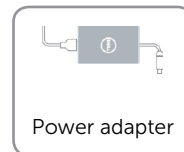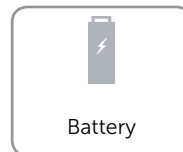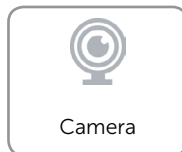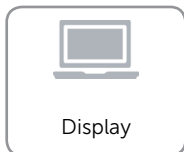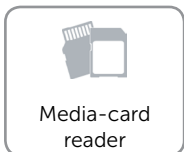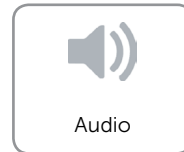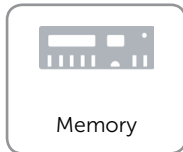
Specifications

Computer environment

	Operating	Storage
Airborne contaminant level	G1 as defined by ISA-S71.04-1985	
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†	160 G‡
Altitude (maximum)	−15.2 m to 3048 m (−50 ft to 10,000 ft)	−15.2 m to 10,668 m (−50 ft to 35,000 ft)

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

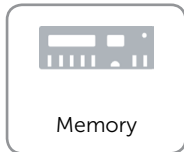† Measured using a 2 ms half-sine pulse when the hard drive is in use.

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

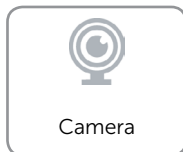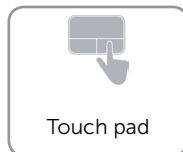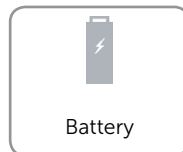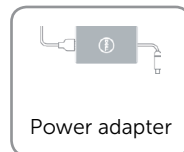|							
Dimensions and weight	System information	Memory	Ports and connectors	Communications	Video	Audio	Storage
Media-card reader	Display	Keyboard	Camera	Touch pad	Battery	Power adapter	Computer environment