INSPIRON M531R

Views

Specifications

2015 - 01   Rev. A00

Regulatory model: P28F | Type: P28F002

Computer model: Inspiron M531R - 5535

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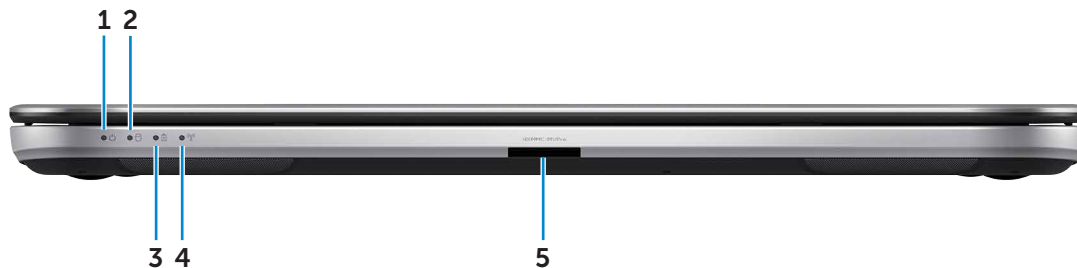
Views

Front

Front

Left

Right

Base

Display

1	**Power-status light**	**3**	**Battery-status light**
	Indicates the power state of the computer.		Indicates the battery state of the computer.
	White light — Power adapter is connected and the battery is fully charged.		Solid yellow light — Battery charge is low or critical.
			Blinking yellow light — Battery charge is critical.
2	**Hard-drive activity light**	**4**	**Wireless-status light**
	Turns on when the computer reads from or writes to the hard drive.		Turns on when wireless is turned on.
		5	**Media-card reader**
			Reads from and writes to media cards.

Views

Left

Front

Left

Right

Base

Display

1   2   3   4   5   6

1   Power-adapter port

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

2   HDMI port

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

3   Network port

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

The two lights next to the connector indicate the connectivity status and network activity.

4   USB 3.0 ports (2)

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

5   USB 2.0 port

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

6   Headset port

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

Views

Right

1   **USB 2.0 port (supports Windows debugging)**

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

This USB port can be used for Windows debugging.

2   **Optical drive**

Reads from and writes to CDs , DVDs and Blu-ray discs.

3   **Security-cable slot**

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

Views

Base

Front

Left

Right

Base

Display

1 — Power button

2 — Touchpad

1   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 10 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**.

2   Touchpad

Move your finger on the touchpad to move the mouse pointer. Tap to left-click.

Views

Front

Left

Right

Base

Display

Display

1   2   3

1   Digital microphone

Provides high-quality 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.

Specifications

Dimensions and Weight

Height	1 in (25.40 mm)
Width	14.80 in (376 mm)
Depth	10.20 in (259 mm)
Weight with 6-cell battery (maximum)	5.73 lbs (2.60 kg)
	NOTE: The weight of your laptop varies depending on the configuration ordered and the manufacturing variability.
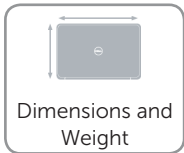
Dimensions and Weight
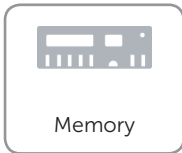
System Information

Memory

Ports and Connectors

Communications

Video
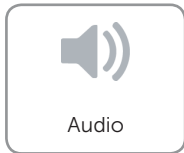
Audio

Storage

Media-card reader

Display
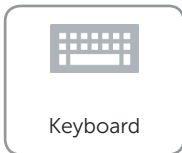
Keyboard
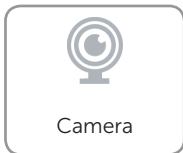
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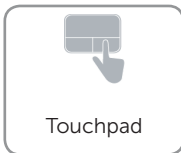
Touchpad
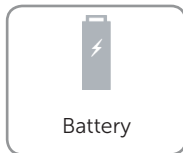
Battery
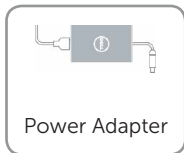
Power Adapter

Computer Environment

Specifications

System Information

Computer model	Inspiron M531R
Processor	• AMD A4-5145M APU • AMD A6-5345M APU • AMD Quad Core A8-5545M APU
L1 cache	Up to 192 KB
L2 cache	Up to 4 MB
Chipset	AMD A76M FCH

Dimensions and Weight	System Information	Memory	Ports and Connectors	Communications	Video	Audio	Storage
Media-card reader	Display	Keyboard	Camera	Touchpad	Battery	Power Adapter	Computer Environment
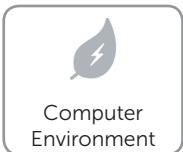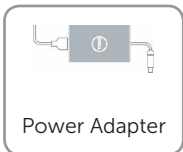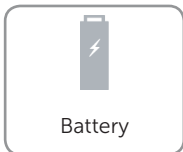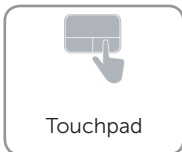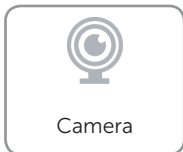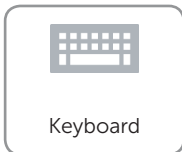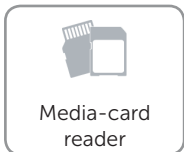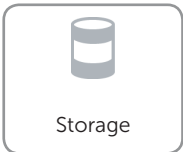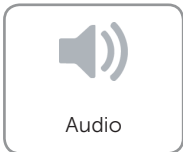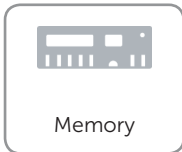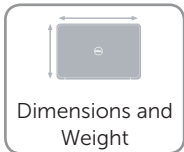
Specifications

Memory

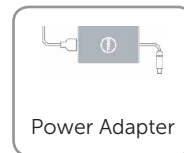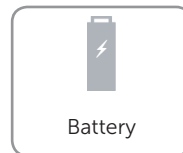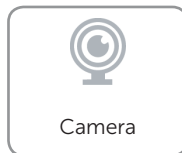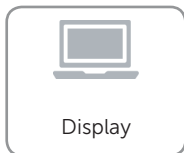|	
Connectors	Two DDR3/DDR3L SODIMM connectors
Capacity	2 GB and 4 GB
Type	1600 MHz dual-channel DDR3 configuration (operating at 1333 MHz)
Configurations supported	2 GB, 4 GB, 6 GB, and 8 GB

Dimensions and Weight | System Information | Memory | Ports and Connectors | Communications | Video | Audio | Storage

Media-card reader | Display | Keyboard | Camera | Touchpad | Battery | Power Adapter | Computer Environment
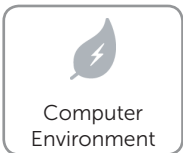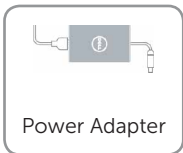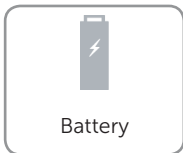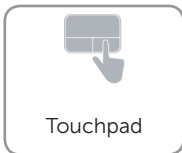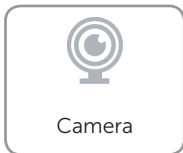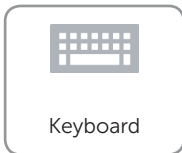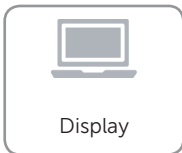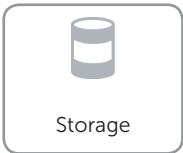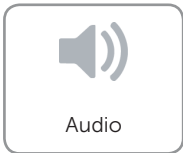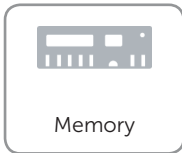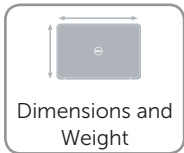
Specifications

Ports and Connectors

External:	
Network	One RJ45 port
USB	• Two USB 3.0 ports • One USB 2.0 port • One USB 2.0 port with Windows debugging
HDMI	One HDMI port
Audio	One headphone and microphone combo (headset) port
Internal:	
Mini-card	One mini-card slot

Dimensions and Weight	System Information	Memory	Ports and Connectors	Communications	Video	Audio	Storage

Media-card reader	Display	Keyboard	Camera	Touchpad	Battery	Power Adapter	Computer Environment
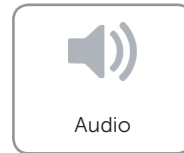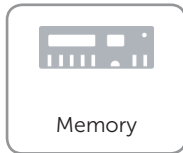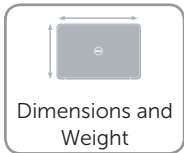
Communications

Ethernet	10/100 Mbps Ethernet controller integrated on system board
Wireless	• Wi-Fi 802.11 b/g/n • Bluetooth 4.0

Dimensions and Weight

System Information

Memory

Ports and Connectors

Communications

Video

Audio

Storage

Media-card reader

Display

Keyboard

Camera

Touchpad

Battery

Power Adapter

Computer Environment
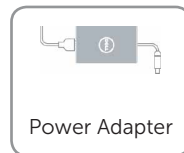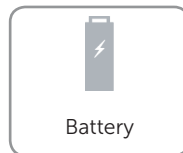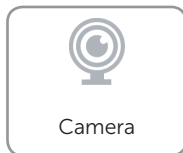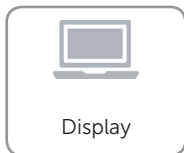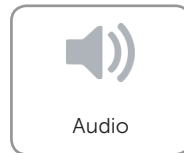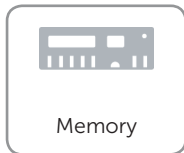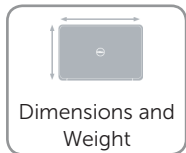
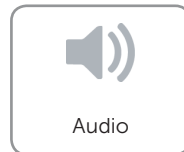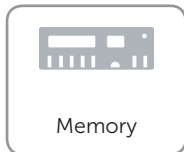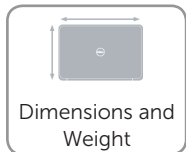# Specifications

Video

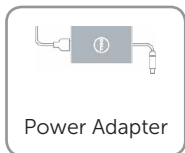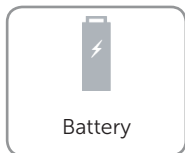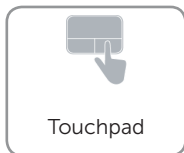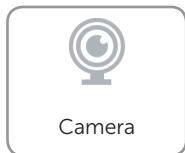| Controller:	
Integrated	• AMD Radeon HD 8310G • AMD Radeon HD 8410G • AMD Radeon HD 8510G
Discrete	• AMD Radeon HD 8670M (1 GB DDR3) • AMD Radeon HD 8410G+8670M (1 GB DDR3 or 2 GB DDR3) • AMD Radeon HD 8510G+8670M (2 GB DDR3)

Dimensions and Weight

System Information

Memory

Ports and Connectors

Communications

Video

Audio

Storage

Media-card reader

Display

Keyboard

Camera

Touchpad

Battery

Power Adapter

Computer Environment
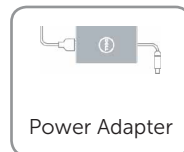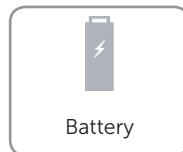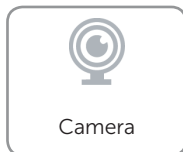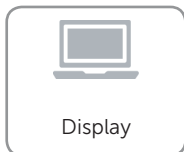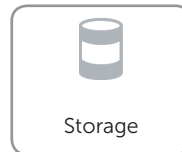
Audio

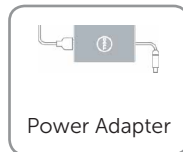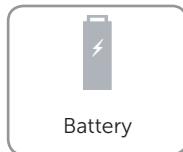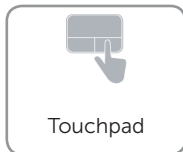|	
Controller	ALC3223
Speakers	Two
Speaker output:	
Average	2 watt
Peak	2 watt
Microphone	Digital microphone in the camera assembly
Volume controls	Program menus and keyboard media-control keys

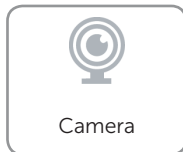Dimensions and Weight

System Information

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Ports and Connectors

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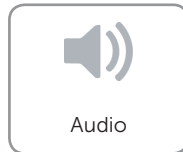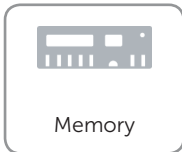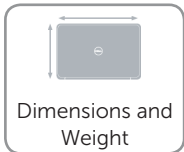
Computer Environment
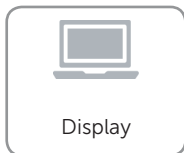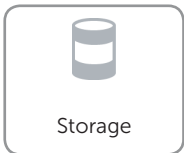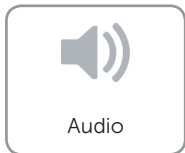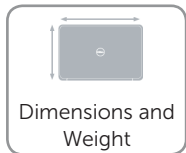
Storage

|	
Interface	• SATA 1.5 Gbps • SATA 3 Gbps • SATA 6 Gbps
Hard drives	One 7 mm/9.5 mm SATA drive
Optical drives	One 9.5 mm SATA drive
Drives supported	DVD+/-RW

Dimensions and Weight

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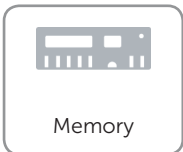## Media-card reader

|	
Type	One 8-in-1 slot
Cards supported	• Secure Digital (SD) memory card • SD High-Capacity (SDHC) card • Secure-Digital Extended Capacity (SDXC) card with Ultra High Speed (UHS) • Memory Stick • Memory Stick PRO • Memory Stick XC (MSXC) • MultiMedia Card (MMC) • MultiMedia Card plus (MMC+)
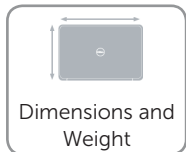
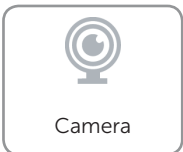Dimensions and Weight | System Information | Memory | Ports and Connectors | Communications | Video | Audio | Storage
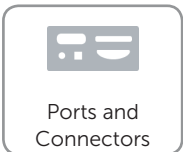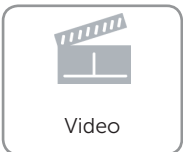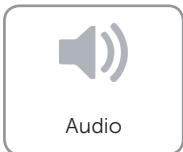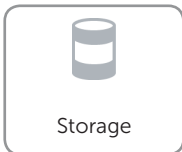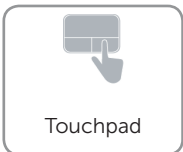
Media-card reader | Display | Keyboard | Camera | Touchpad | Battery | Power Adapter | Computer Environment
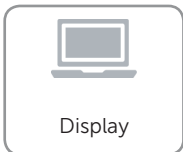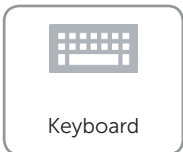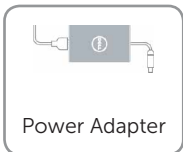
Display

Type	15.6-inch HD True-Life
Resolution (maximum)	HD — 1366 x 768
Dimensions:	
Height	8.83 in (224.30 mm)
Width	14.17 in (360 mm)
Diagonal	15.60 in (396.24 mm)
Refresh rate	60 Hz
Operating angle	0 degree (closed) to 135 degrees
Pixel pitch	0.252 mm x 0.252 mm
Controls	Brightness can be controlled using shortcut keys.

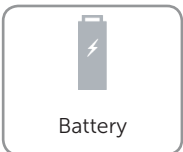Dimensions and Weight | System Information | Memory | Ports and Connectors | Communications | Video | Audio | Storage

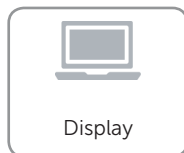Media-card reader | Display | Keyboard | Camera | Touchpad | Battery | Power Adapter | Computer Environment
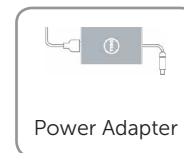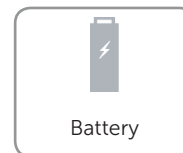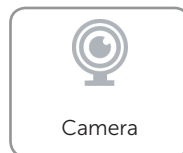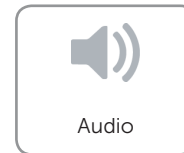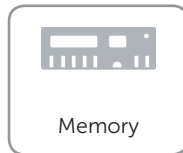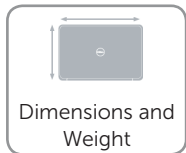
Specifications

Keyboard

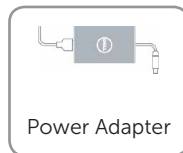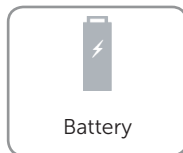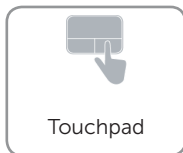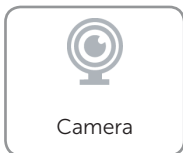| Type	Chiclet keyboard
Shortcut keys	Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. To type the alternate character, press Shift and the desired key. To perform secondary functions, press Fn and the desired key. **NOTE**: You can define the primary behavior of the shortcut keys by changing **Function Key Behavior** in BIOS setup program.

Dimensions and Weight	System Information	Memory	Ports and Connectors	Communications	Video	Audio	Storage
Media-card reader	Display	Keyboard	Camera	Touchpad	Battery	Power Adapter	Computer Environment
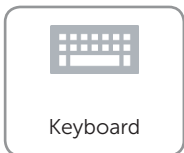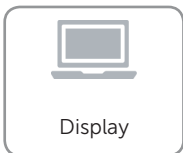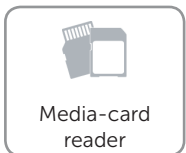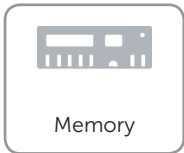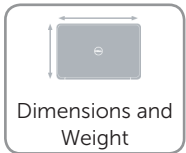
Specifications

Camera

Resolution:	
Still image	0.92 megapixel
Video	1280 x 720 (HD) at 30 fps (maximum)
Diagonal viewing angle	66 degrees
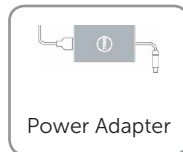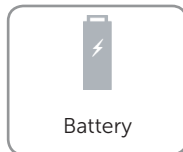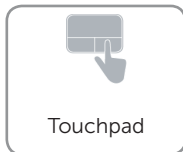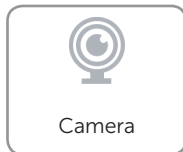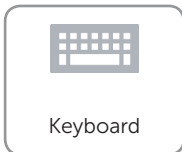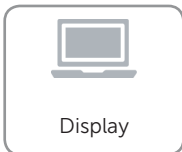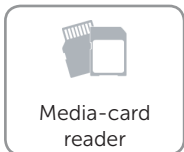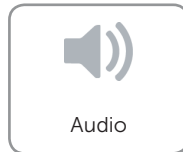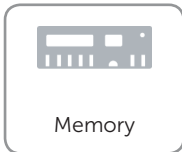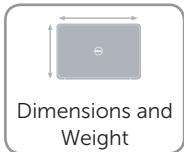
Touchpad

Resolution:	
Horizontal	1261 dpi
Vertical	1810 dpi
Dimensions:	
Width	2.13 in (54 mm)
Height	3.86 in (98 mm)

Dimensions and Weight

System Information

Memory

Ports and Connectors

Communications

Video

Audio

Storage

Media-card reader

Display

Keyboard

Camera

Touchpad

Battery

Power Adapter

Computer Environment

Specifications

Battery

	4-cell	6-cell
Type	• 4-cell "smart" lithium ion (40 WHr) • 6-cell "smart" lithium ion (65 WHr)	
Dimensions:	**4-cell**	**6-cell**
Height	0.79 in (20 mm)	1.08 in (27.4 mm)
Width	10.72 in (272.40 mm)	10.72 in (272.40 mm)
Depth	1.94 in (49.30 mm)	1.94 in (49.3 mm)
Weight (maximum)	0.57 lb (0.26 kg)	0.79 lb (0.36 kg)
Voltage	14.80 VDC	11.10 VDC
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

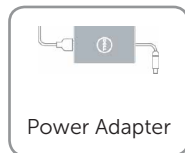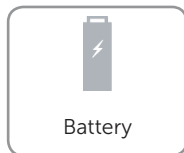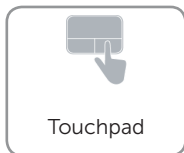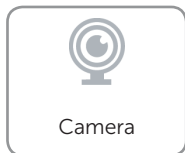Display

Keyboard

Camera

Touchpad

Battery

Power Adapter

Computer Environment
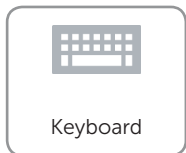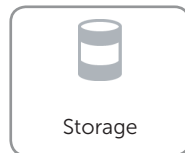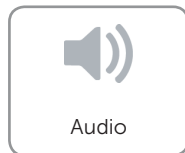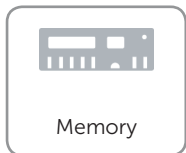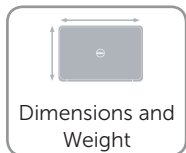
Specifications

Power Adapter

Type	• 65 W
	• 90 W
Input voltage	100 VAC–240 VAC
Input frequency	50 Hz–60 Hz
Input current	1.50A/1.60A/1.70A/2.50A
Output current	3.34 A/4.62 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	Touchpad	Battery	Power Adapter	Computer Environment
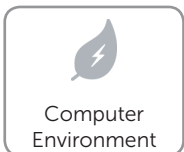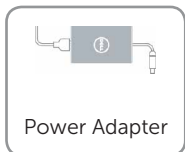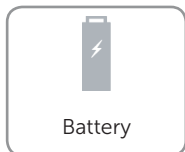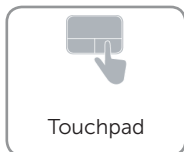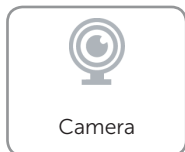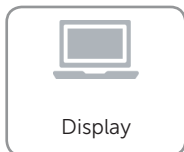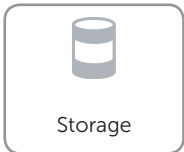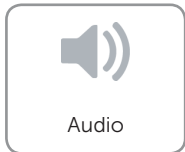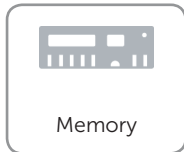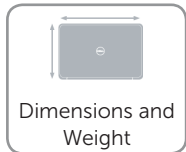
Specifications

Computer Environment

Airborne contaminant level	G1 as defined by ISA-S71.04-1985	
	Operating	**Storage**
Temperature range	0 °C to 40 °C (32 °F to 104 °F)	−40 °C to 70 °C (−40 °F to 158 °F)
Relative humidity (maximum)	10 % to 90 % (non-condensing)	10 % 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 with hard drive in operating status and a 2-ms half-sine pulse for operating. Also measured with hard drive in head-parked position and a 2-ms half-sine pulse for storage

Dimensions and Weight

System Information

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