Inspiron 3501

Setup and Specifications

Notes, cautions, and warnings

(i) **NOTE:** A NOTE indicates important information that helps you make better use of your product.

△ **CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.**

⚠ **WARNING: A WARNING indicates a potential for property damage, personal injury, or death.**

Contents

Set up your Inspiron 3501

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

1. Connect the power adapter and press the power button.

   (i) **NOTE:** To conserve battery power, the battery might enter power saving mode. Connect the power adapter and press the power button to turn on the computer.

2. Finish operating system setup.

   For Ubuntu:

   Follow the on-screen instructions to complete the setup. For more information about installing and configuring Ubuntu, see the knowledge base articles SLN151664 and SLN151748 at www.dell.com/support.

   For Windows:

   Follow the on-screen instructions to complete the setup. When setting up, Dell recommends that you:

   - Connect to a network for Windows updates.
     (i) **NOTE:** If connecting to a secured wireless network, enter the password for the wireless network access when prompted.
   - If connected to the internet, sign-in with or create a Microsoft account. If not connected to the internet, create an offline account.

   - On the **Support and Protection** screen, enter your contact details.

3. Locate and use Dell apps from the Windows Start menu—Recommended.

   Table 1. Locate Dell apps

Resources	Description
	My Dell Centralized location for key Dell applications, help articles, and other important information about your computer. It also notifies you about the warranty status, recommended accessories, and software updates if available.

Table 1. Locate Dell apps (continued)

Resources	Description
	SupportAssist Pro-actively checks the health of your computer's hardware and software. The SupportAssist OS Recovery tool troubleshoots issues with the operating system. For more information, see the SupportAssist documentation at www.dell.com/support. ⓘ **NOTE:** In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.
	Dell Update Updates your computer with critical fixes and latest device drivers as they become available. For more information about using Dell Update, see the knowledge base article SLN305843 at www.dell.com/support.
	Dell Digital Delivery Download software applications, which are purchased but not pre-installed on your computer. For more information about using Dell Digital Delivery, see the knowledge base article 153764 at www.dell.com/support.

Views of Inspiron 3501

Right

1. **SD-card slot**

   Reads from and writes to the SD card. The computer supports the following card types:

   - Secure Digital (SD)
   - Secure Digital High Capacity (SDHC)
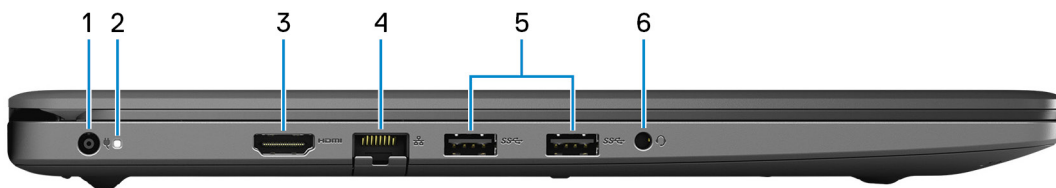   - Secure Digital Extended Capacity (SDXC)
   - MultiMediaCard (MMC)

2. **USB 2.0 port**

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

3. **Security-cable slot (wedge-shaped)**

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

Left

1. **Power-adapter port**

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

2. **Power and battery-status light/hard-drive activity light**

   Indicates the battery-charge status or the hard-drive activity.

   (i) **NOTE:** Press Fn+H to toggle between the power and battery-status light, and hard-drive activity light.

   Hard-drive activity light

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

   Power and battery-status light

   Indicates the power and battery-charge status.

   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.

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.

3. **HDMI port**

   Connect to 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.
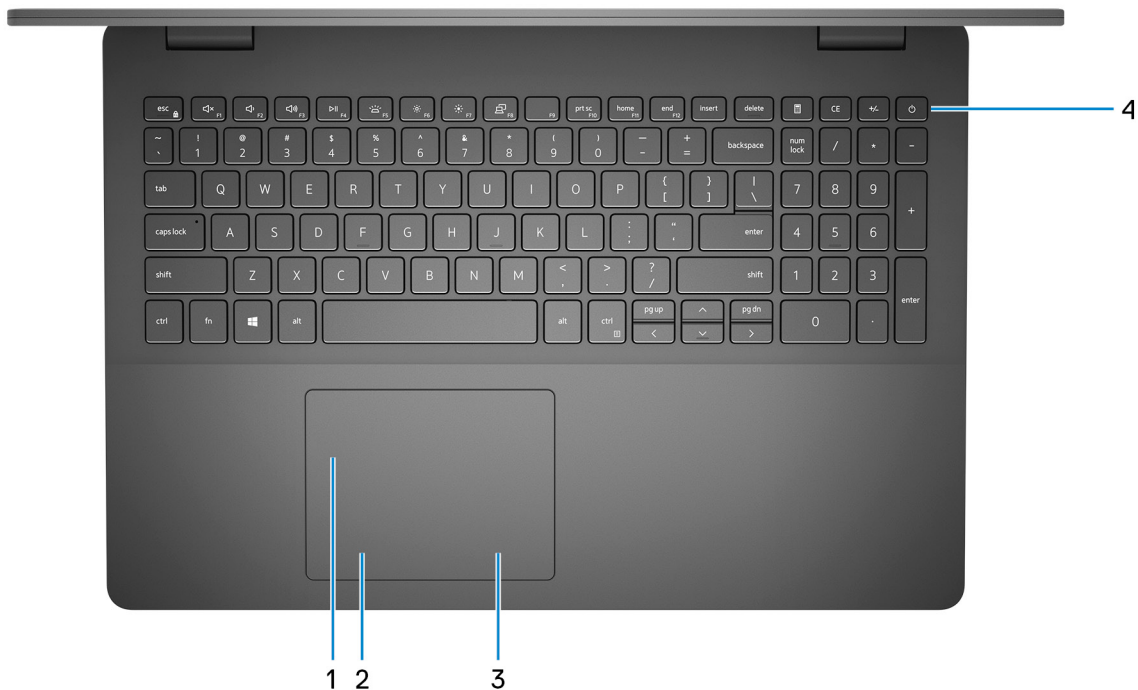
5. **USB 3.2 Gen 1 ports (2)**

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

6. **Headset port**

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

Base

1. **Touchpad**

   Move your finger on the touchpad to move the mouse pointer. Tap to left-click and two finger tap to right-click.

2. **Left-click area**

   Press to left-click.

3. **Right-click area**

   Press to right-click.

4. **Power button with optional fingerprint reader**

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

   When the computer is turned on, press the power button to put the computer into sleep state; press and hold the power button for 10 seconds to force shut-down the computer.

If the power button has a fingerprint reader, place your finger on the power button to log in.

(i) **NOTE:** You can customize power-button behavior in Windows. For more information, see *Me and My Dell* at www.dell.com/support/manuals.

(i) **NOTE:** The power-status light on the power button is available only on computers without the fingerprint reader. Computers shipped with the fingerprint reader integrated on the power button will not have the power-status light on the power button.

(i) **NOTE:** To reset the battery, press and hold the power button for 25 seconds.

Display
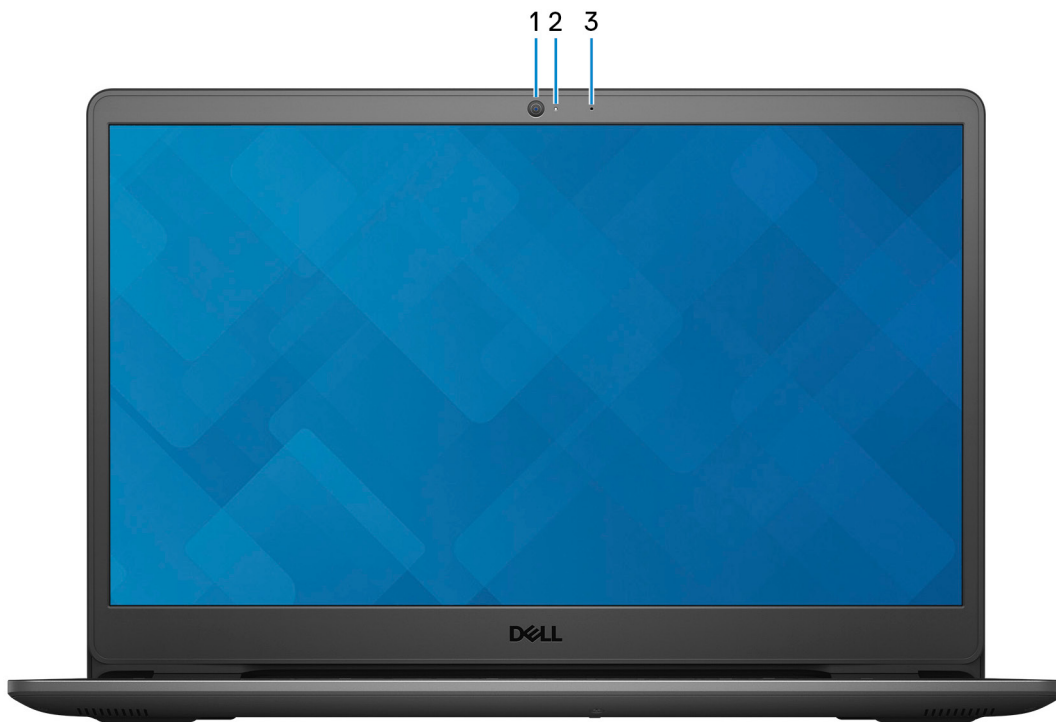
1. **Camera**

   Enables you to video chat, capture photos, and record videos.
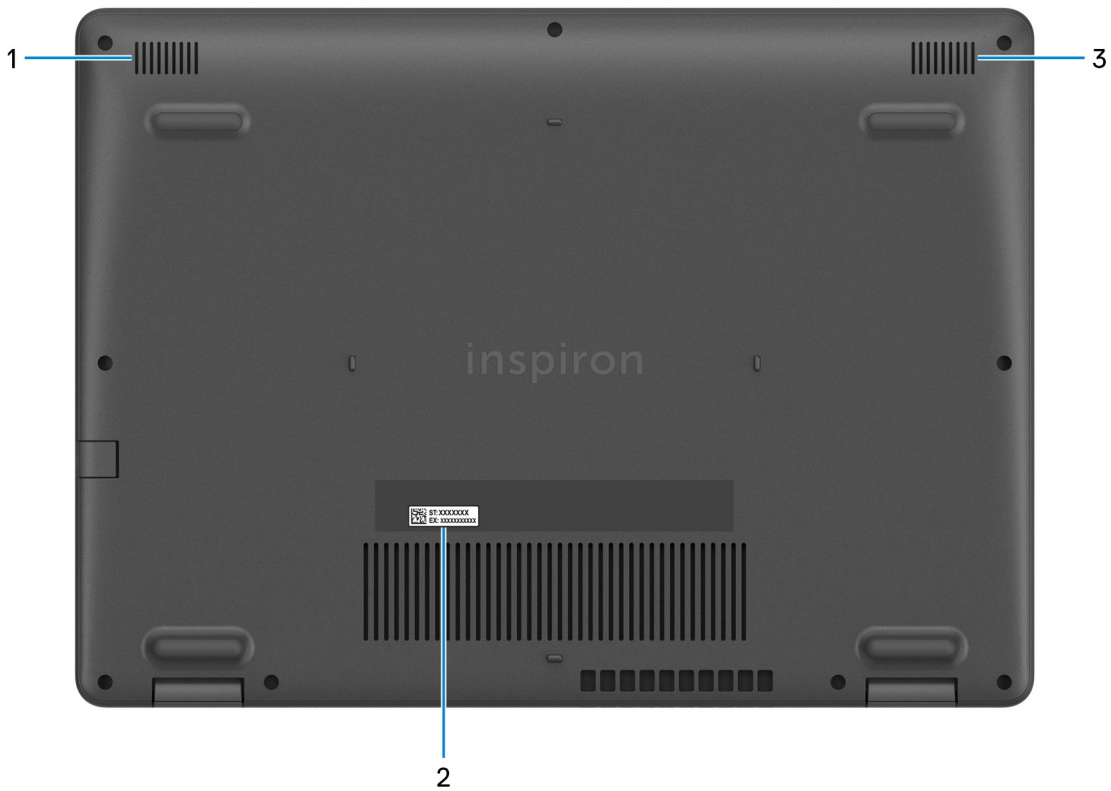
2. **Camera-status light**

   Turns on when the camera is in use.

3. **Microphone**

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

Bottom

1. **Left speaker**

   Provides audio output.

2. **Service Tag label**

   The Service Tag is a unique alphanumeric identifier that enables Dell service technicians to identify the hardware components in your computer and access warranty information.

3. **Right speaker**

   Provides audio output.

Specifications of Inspiron 3501

Dimensions and weight

The following table lists the height, width, depth, and weight of your Inspiron 3501.

Table 2. Dimensions and weight

Description	Values
Height:	
Front height	18 mm (0.71 in.)
Rear height	19.90 mm (0.78 in.)
Width	363.96 mm (14.33 in.)
Depth	249 mm (9.80 in.)
Weight (maximum)	1.91 kg (4.21 lb) (i) **NOTE:** The weight of your computer depends on the configuration ordered and manufacturing variability.

Processor

The following table lists the details of the processors supported by your Inspiron 3501.

Table 3. Processor

Description	Values
Processor type	10th Generation Intel Core i3-1005G1
Processor wattage	15 W
Processor core count	2
Processor thread count	4
Processor speed	Up to 3.40 GHz
Processor cache	4 MB
Integrated graphics	Intel UHD Graphics

Chipset

The following table lists the details of the chipset supported by your Inspiron 3501.

Table 4. Chipset

Description	Values
Chipset	Integrated in the processor
Processor	10th Generation Intel Core i3
DRAM bus width	64-bit, dual channel
Flash EPROM	16 MB + 8 MB
PCIe bus	Up to Gen3

Operating system

Your Inspiron 3501 supports the following operating systems:

- Windows 10 Home, 64-bit
- Windows 10 Pro, 64-bit
- Windows 10 Home in S Mode, 64-bit
- Ubuntu 20.04, 64-bit

Memory

The following table lists the memory specifications of your Inspiron 3501.

Table 5. Memory specifications

Description	Values
Memory slots	Two SODIMM slot
Memory type	Dual-channel DDR4
Memory speed	2666 MHz
Maximum memory configuration	16GB
Minimum memory configuration	4 GB
Memory size per slot	4 GB, 8 GB, 16 GB
Memory configurations supported	4 GB, 1 x 4 GB, DDR4, 2666 MHz 8 GB, 1 x 4 GB, DDR4, 2666 MHz 8 GB, 2 x 4 GB, DDR4, 2666 MHz, dual-channel 12 GB, 1 x 4 GB + 1 x 8 GB, DDR4, 2666 MHz 16 GB, 2 x 8 GB, DDR4, 2666 MHz, dual-channel 16 GB, 1 x 16 GB, DDR4, 2666 MHz

External ports

The following table lists the external ports of your Inspiron 3501.

Table 6. External ports

Description	Values
Network port	One RJ-45 port
USB ports	- Two USB 3.2 Gen 1 ports - One USB 2.0 port
Audio port	One headset (headphone and microphone combo) port
Video port	One HDMI 1.4 port
Media-card reader	One SD-card slot
Power-adapter port	One 4.50 mm x 2.90 mm (DC-in)
Security	One wedge-shaped lock slot

Internal slots

The following table lists the internal slots of your Inspiron 3501.

Table 7. Internal slots

Description	Values
M.2	- One M.2 2230 slot for WiFi and Bluetooth combo card - One M.2 2230/2280 slot for solid-state drive **NOTE:** To learn more about the features of different types of M.2 cards, see the knowledge base article SLN301626 at www.dell.com/support.

Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Inspiron 3501.

Table 8. Ethernet specifications

Description	Values
Model number	Ethernet controller integrated to the system board
Transfer rate	10/100 Mbps

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module specifications of your Inspiron 3501.

Table 9. Wireless module specifications

Description	Option one	Option two	Option three
Model number	Qualcomm DW1810	Intel Wireless-AC 9462	Realtek RTL8723DE
Transfer rate	Up to 433 Mbps	Up to 433 Mbps	Up to 150 Mbps
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz	2.4 GHz
Wireless standards	- WiFi 802.11a/b/g - Wi-Fi 4 (WiFi 802.11n) - Wi-Fi 5 (WiFi 802.11ac)	- WiFi 802.11a/b/g - Wi-Fi 4 (WiFi 802.11n) - Wi-Fi 5 (WiFi 802.11ac)	- WiFi 802.11a/b/g - Wi-Fi 4 (WiFi 802.11n)
Encryption	64-bit/128-bit WEP - AES-CCMP - TKIP	64-bit/128-bit WEP - AES-CCMP - TKIP	64-bit/128-bit WEP - AES-CCMP - TKIP
Bluetooth	Bluetooth 5.0	Bluetooth 5.0	Bluetooth 4.2

Audio

The following table lists the audio specifications of your Inspiron 3501.

Table 10. Audio specifications

Description		Values
Audio controller		Realtek ALC3204
Stereo conversion		Supported
Internal audio interface		High definition audio
External audio interface		Universal Audio Jack
Number of speakers		Two
Internal-speaker amplifier		Supported (audio codec integrated)
External volume controls		Keyboard shortcut controls
Speaker output:		
	Average speaker output	2 W
	Peak speaker output	2.5 W
Subwoofer output		Not supported
Microphone		Single digital microphone

Storage

This section lists the storage options on your Inspiron 3501.

Your Inspiron 3501 supports one of the following storage configurations:

- One M.2 solid-state drive
- One 2.5-inch hard drive
- One M.2 solid-state drive and one 2.5-inch hard drive

The primary drive of your Inspiron 3501 varies with the storage configuration. For computers:

- e.g. with a M.2 drive, the M.2 drive is the primary drive
- e.g. without a M.2 drive, the 2.5-inch hard drive is the primary drive

Table 11. Storage specifications

Storage type	Interface type	Capacity
2.5-inch hard drive	SATA AHCI, up to 6 Gbps	Up to 2 TB
M.2 2230/2280 solid-state drive	PCIe Gen3.0x4 NVMe, up to 32 Gbps	Up to 1 TB

Media-card reader

The following table lists the media cards supported by your Inspiron 3501.

Table 12. Media-card reader specifications

Description	Values
Media-card type	One SD-card slot
Media-cards supported	- Secure Digital (SD) - Secure Digital High Capacity (SDHC) - Secure Digital Extended Capacity (SDXC) - MultiMediaCard (MMC)
ⓘ **NOTE:** The maximum capacity supported by the media-card reader varies depending on the standard of the media card installed in your computer.	

Keyboard

The following table lists the keyboard specifications of your Inspiron 3501.

Table 13. Keyboard specifications

Description	Values
Keyboard type	- Standard keyboard - Backlit keyboard
Keyboard layout	QWERTY
Number of keys	- United States and Canada: 101 keys - United Kingdom: 102 keys - Japan: 105 keys
Keyboard size	X=18.7 mm key pitch

Table 13. Keyboard specifications (continued)

Description	Values
	Y=18.05 mm key pitch
Keyboard shortcuts	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 function keys (F1–F12) changing **Function Key Behavior** in BIOS setup program. For more information, see Keyboard shortcuts.

Camera

The following table lists the camera specifications of your Inspiron 3501.

Table 14. Camera specifications

Description	Values
Number of cameras	One
Camera type	RGB HD Camera
Camera location	Front camera
Camera sensor type	CMOS sensor technology
Camera resolution:	
Still image	0.92 megapixel
Video	1280 x 720 (HD) at 30fps
Diagonal viewing angle:	78.6 degrees

Touchpad

The following table lists the touchpad specifications of your Inspiron 3501.

Table 15. Touchpad specifications

Description	Values
Touchpad resolution:	
Horizontal	• 1230 • 1920
Vertical	• 930 • 1080
Touchpad dimensions:	
Horizontal	105 mm (4.13 in.)

Table 15. Touchpad specifications (continued)

Description		Values
	Vertical	80 mm (3.15 in.)
Touchpad gestures		For more information about touchpad gestures available on Windows 10, see the Microsoft knowledge base article 4027871 at support.microsoft.com.

Power adapter

The following table lists the power adapter specifications of your Inspiron 3501.

Table 16. Power adapter specifications

Description		Values
Type		45 W
Connector dimensions:		
	External diameter	4.50 mm
	Internal diameter	2.90 mm
Input voltage		100 VAC–240 VAC
Input frequency		50 Hz–60 Hz
Input current (maximum)		1.30 A
Output current (continuous)		2.31 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)

Battery

The following table lists the battery specifications of your Inspiron 3501.

ⓘ **NOTE:** Dell recommends that you charge the battery regularly for optimal power consumption. If your battery charge is completely depleted, connect the power adapter, turn on your computer, and then restart your computer to reduce the power consumption.

Table 17. Battery specifications

Description	Values
Battery type	3-cell polymer battery (42 Whr)
Battery voltage	11.40 VDC
Battery weight (maximum)	0.20 kg (0.44 lb)
Battery dimensions:	

Table 17. Battery specifications (continued)

Description		Values
	Height	5.90 mm (0.23 in.)
	Width	97.15 mm (3.82 in.)
	Depth	184.15 mm (7.25 in.)
Temperature range:		
	Operating	0°C to 35°C (32°F to 95°F)
	Storage	-40°C to 65°C (-40°F to 149°F)
Battery operating time		Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Battery charging time (approximate) (i) **NOTE:** Control the charging time, duration, start and end time, and so on, using the Dell Power Manager application. For more information about the Dell Power Manager, see *Me and My Dell* on www.dell.com.		4 hours (when the computer is off)
Coin-cell battery		CR2032

Display

The following table lists the display specifications of your Inspiron 3501.

Table 18. Display specifications

Description		Option one	Option two
Display type		High Definition (HD)	Full High Definition (FHD)
Display-panel technology		Twisted Nematic (TN)	Wide Viewing Angle(WVA)
Display-panel dimensions (active area):			
	Height	193.54 mm (7.62 in.)	193.54 mm (7.62 in.)
	Width	344.23 mm (13.55 in.)	344.23 mm (13.55 in.)
	Diagonal	394.90 mm (15.55 in.)	394.90 mm (15.55 in.)
Display-panel native resolution		1366 x 768	1920 x 1080
Luminance (typical)		220 nits	220 nits
Megapixels		1.05	2.07
Color gamut		45% (NTSC)	45% (NTSC)
Pixels Per Inch (PPI)		100	141
Contrast ratio (min.)		400 : 1	400 : 1
Response time (max.)		25 ms	35 ms
Refresh rate		60 Hz	60 Hz

Table 18. Display specifications (continued)

Description	Option one	Option two
Horizontal view angle	40 +/- degrees	80 +/- degrees
Vertical view angle	10 (Top) / 30 (Bottom) degrees	80 +/- degrees
Pixel pitch	0.25 mm	0.18 mm
Power consumption (maximum)	4.20 W	4.20 W
Anti-glare vs glossy finish	Anti-glare	Anti-glare
Touch options	No	No

Fingerprint reader (optional)

The following table lists the specifications of the optional fingerprint-reader of your Inspiron 3501.

Table 19. Fingerprint reader specifications

Description	Values
Fingerprint-reader sensor technology	Capacitive
Fingerprint-reader sensor resolution	500 dpi
Fingerprint-reader sensor pixel size	64 x 80

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Inspiron 3501.

Table 20. GPU—Integrated

Controller	External display support	Memory size	Processor
Intel UHD Graphics	One HDMI 1.4 port	Shared system memory	10th Generation Intel Core i3

Operating and storage environment

This table lists the operating and storage specifications of your Inspiron 3501.

Airborne contaminant level: G1 as defined by ISA-S71.04-1985

Table 21. Computer environment

Description	Operating	Storage
Temperature range	0°C to 40°C (32°F to 104°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)	140 G†	160 G†
Altitude range	0 m to 3,048 m (0 ft to 10,000 ft)	0 m to 10,668 m (0 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.

Keyboard shortcuts

ⓘ **NOTE:** Keyboard characters may differ depending on the keyboard language configuration. Keys used for shortcuts remain the same across all language configurations.
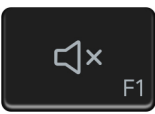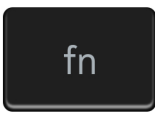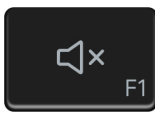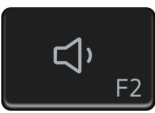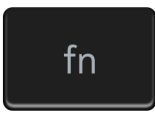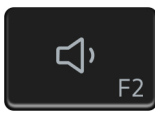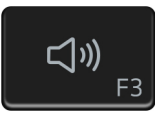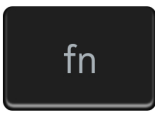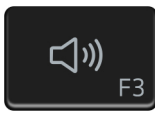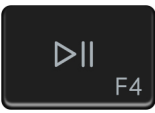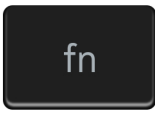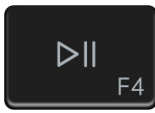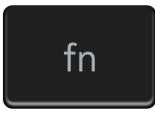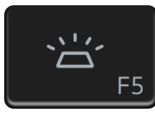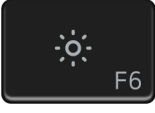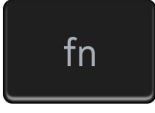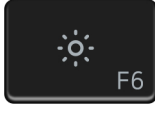
Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. The symbol shown on the lower part of the key refers to the character that is typed out when the key is pressed. If you press shift and the key, the symbol shown on the upper part of the key is typed out. For example, if you press **2**, **2** is typed out; if you press **Shift** + **2**, **@** is typed out.

The keys F1-F12 at the top row of the keyboard are function keys for multi-media control, as indicated by the icon at the bottom of the key. Press the function key to invoke the task represented by the icon. For example, pressing F1 mutes the audio (refer to the table below).
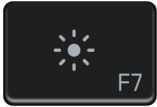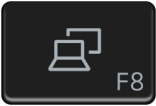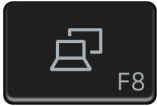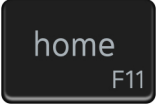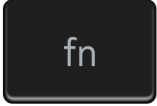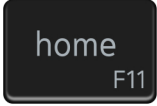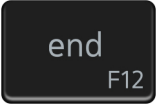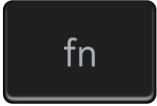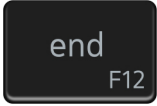
However, if the function keys F1-F12 are needed for specific software applications, multi-media functionality can be disabled by pressing **fn** + **Esc**. Subsequently, multi-media control can be invoked by pressing **fn** and the respective function key. For example, mute audio by pressing **fn** + **F1**.

ⓘ **NOTE:** You can also define the primary behavior of the function keys (F1–F12) by changing **Function Key Behavior** in BIOS setup program.

Table 22. List of keyboard shortcuts

Function key	Redefined key (for multimedia control)	Behavior
⊄× F1	fn + ⊄× F1	Mute audio
⊲› F2	fn + ⊲› F2	Decrease volume
⊲›› F3	fn + ⊲›› F3	Increase volume
▷‖ F4	fn + ▷‖ F4	Play/Pause
☼ F5	fn + ☼ F5	Toggle keyboard backlight (optional) ⓘ **NOTE:** Non-backlight keyboards have F5 function key without the backlight icon and does not support toggle keyboard backlight function.
☼ F6	fn + ☼ F6	Decrease brightness

Table 22. List of keyboard shortcuts (continued)

Function key	Redefined key (for multimedia control)	Behavior
☀ F7	fn + ☀ F7	Increase brightness
F8	fn + F8	Switch to external display
prt sc F10	fn + prt sc F10	Print screen
home F11	fn + home F11	Home
end F12	fn + end F12	End

The **fn** key is also used with selected keys on the keyboard to invoke other secondary functions.

Table 23. List of keyboard shortcuts
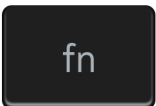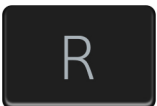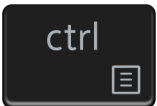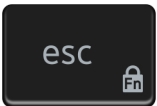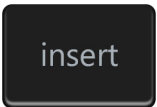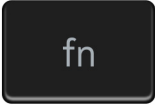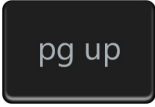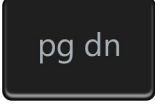
Function key	Behavior
fn + B	Pause/Break
fn + S	Toggle scroll lock
fn + R	System request
fn + ctrl	Open application menu
fn + esc	Toggle fn-key lock
fn + insert	Turn on/off wireless connection
fn +	Emoji

Table 23. List of keyboard shortcuts (continued)

Function key		Behavior
fn + **T**		Turn on/off **Ultra performance mode**
fn + **pg up**		Page up
fn + **pg dn**		Page down

Getting help and contacting Dell

Self-help resources

You can get information and help on Dell products and services using these self-help resources:

Table 24. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	www.dell.com
My Dell	
Tips	
Contact Support	In Windows search, type `Contact Support`, and press Enter.
Online help for operating system	www.dell.com/support/windows www.dell.com/support/linux
Troubleshooting information, user manuals, set up instructions, product specifications, technical help blogs, drivers, software updates, and so on.	www.dell.com/support
Dell knowledge base articles for a variety of computer concerns	1. Go to www.dell.com/support. 2. On the menu bar at the top of the Support page, select **Support** > **Knowledge Base**. 3. In the Search field on the Knowledge Base page, type the keyword, topic, or model number, and then click or tap the search icon to view the related articles.
Learn and know the following information about your product: ● Product specifications ● Operating system ● Setting up and using your product ● Data backup ● Troubleshooting and diagnostics ● Factory and system restore ● BIOS information	See *Me and My Dell* at www.dell.com/support/manuals. To locate the *Me and My Dell* relevant to your product, identify your product through one of the following: ● Select **Detect Product**. ● Locate your product through the drop-down menu under **View Products**. ● Enter the **Service Tag number** or **Product ID** in the search bar.

Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see www.dell.com/contactdell.

ⓘ **NOTE:** Availability varies by country/region and product, and some services may not be available in your country/region.

ⓘ **NOTE:** If you do not have an active Internet connection, you can find contact information about your purchase invoice, packing slip, bill, or Dell product catalog.