Inspiron 3502

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 3502

ⓘ **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.

ⓘ **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 Windows setup.

   Follow the on-screen instructions to complete the setup. When setting up, Dell recommends that you:
   ● Connect to a network for Windows updates.
      ⓘ **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
	Dell Product Registration Register your computer with Dell.
	Dell Help & Support Access help and support for your computer.

Table 1. Locate Dell apps (continued)

Resources	Description
	SupportAssist SupportAssist proactively and predictively identifies hardware and software issues on your computer and automates the engagement process with Dell Technical support. It addresses performance and stabilization issues, prevents security threats, monitors, and detects hardware failures. For more information, see *SupportAssist for Home PCs User's Guide* at www.dell.com/serviceabilitytools. Click **SupportAssist** and then, click **SupportAssist for Home PCs**. (i) **NOTE:** In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.

Table 2. Locate Dell apps in Windows 10 Home

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.
	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 000149088 at www.dell.com/support.
	Dell Digital Delivery Download software applications, which are purchased but not preinstalled on your computer. For more information about using Dell Digital Delivery, see the knowledge base article 000129837 at www.dell.com/support.
	SupportAssist SupportAssist proactively and predictively identifies hardware and software issues on your computer and automates the engagement process with Dell Technical support. It addresses performance and stabilization issues, prevents security threats, monitors, and detects hardware failures. For more information, see *SupportAssist for Home PCs User's Guide* at www.dell.com/serviceabilitytools. Click **SupportAssist** and then, click **SupportAssist for Home PCs**. (i) **NOTE:** In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.

Views of Inspiron 3502

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)
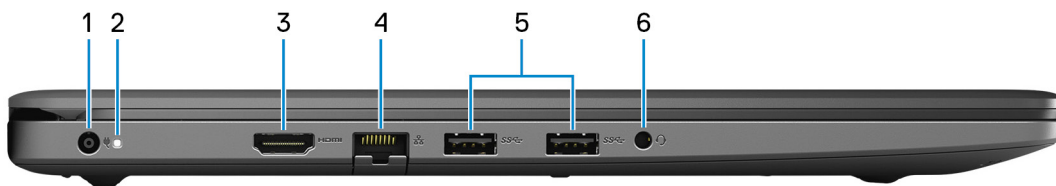   - Secure Digital Extended Capacity (SDXC)
   - MultiMediaCard (MMC)

2. **USB 2.0 port**

   Connect devices 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.

   ⓘ **NOTE:** Press Fn+H to switch 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, external display or another HDMI-in enabled device. Provides video and audio output.

   ⓘ **NOTE:** The maximum resolution supported by the HDMI port is 1920 x 1080 at 60Hz (24-bit).

4. **Network port**

   Connect an Ethernet (RJ45) cable from a router or a broadband modem for network or Internet access.
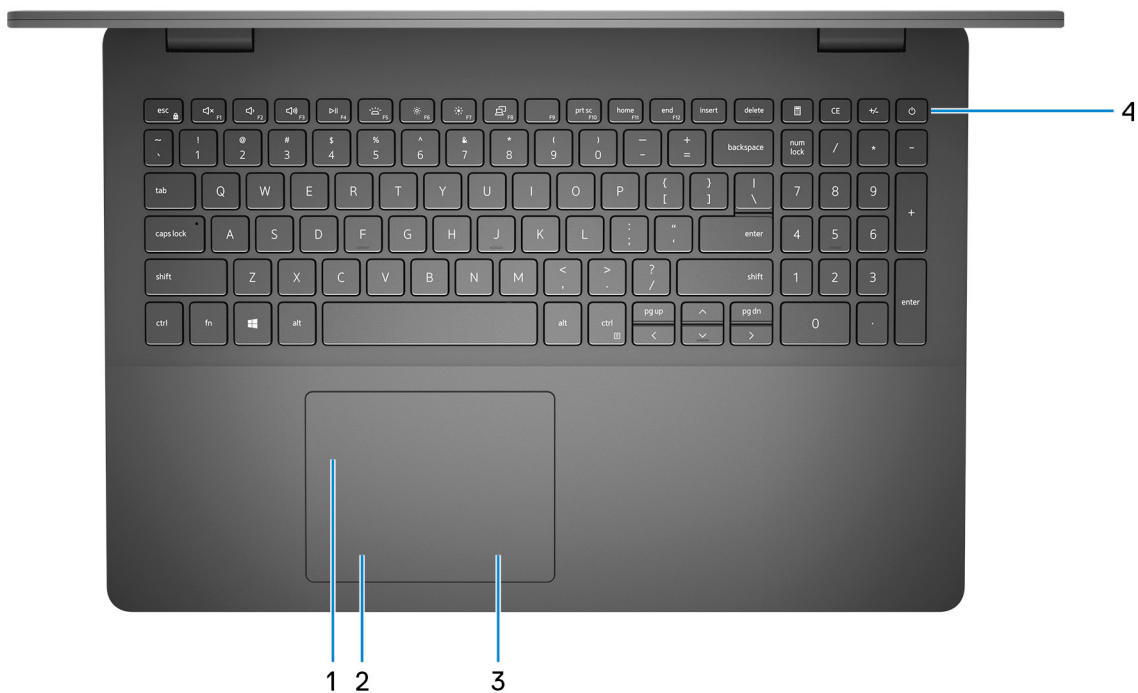
5. **USB 3.2 Gen 1 ports (2)**

   Connect devices 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).

Top

1. **Touchpad**

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

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

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

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

Front
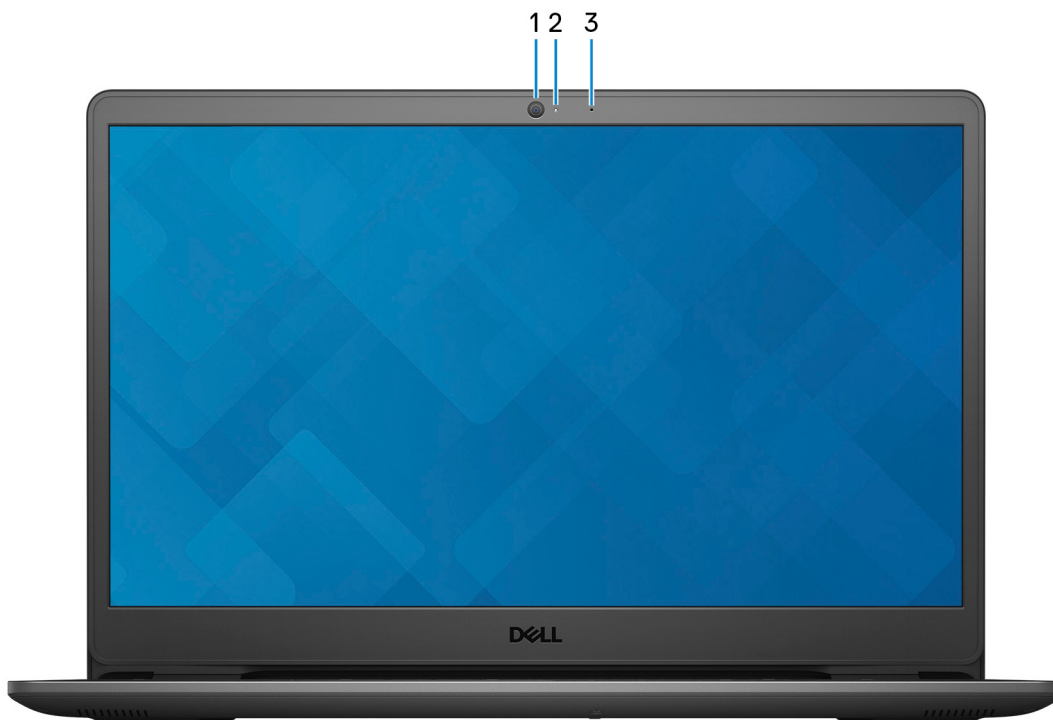
1. **Camera**

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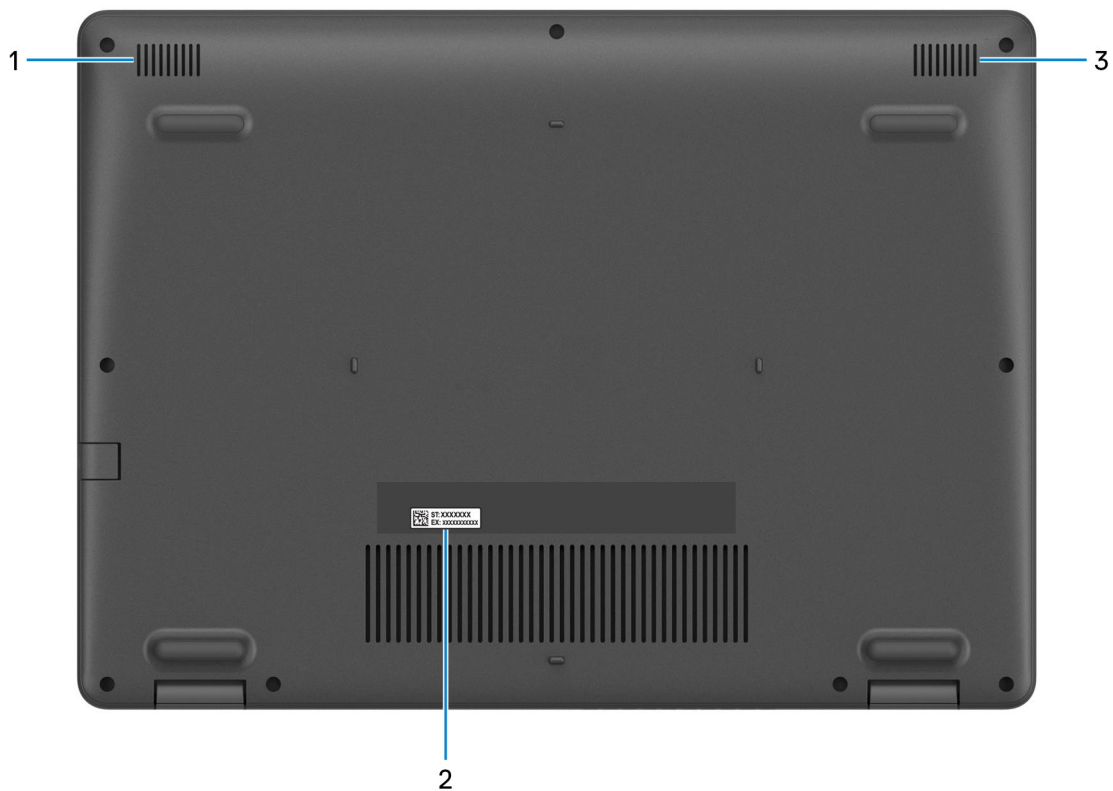
2. **Camera-status light**

   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 3502

Dimensions and weight

The following table lists the height, width, depth, and weight of your Inspiron 3502.

Table 3. 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)	1.83 kg (4.03 lb) ⓘ **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 3502.

Table 4. Processor

Description	Option one	Option two
Processor type	Intel Celeron Processor N4020	Intel Pentium Silver N5030 Processor
Processor wattage	6 W	6 W
Processor core count	2	4
Processor thread count	2	4
Processor speed	Up to 2.80 GHz	Up to 3.10 GHz
Processor cache	4 MB	4 MB
Integrated graphics	Intel UHD Graphics 600	Intel UHD Graphics 605

Chipset

The following table lists the details of the chipset supported by your Inspiron 3502.

Table 5. Chipset

Description	Values
Chipset	Integrated in the processor
Processor	● Intel Celeron Processor N4020 ● Intel Pentium Silver N5030 Processor
DRAM bus width	64-bit
Flash EPROM	16 MB
PCIe bus	Up to Gen2

Operating system

Your Inspiron 3502 supports the following operating systems:

● Windows 11 Home, 64-bit
● Windows 11 Home National Academic, 64-bit
● Windows 11 Home in S-mode, 64-bit
● Windows 11 Pro, 64-bit
● Windows 11 Pro National Academic, 64-bit
● Windows 10 Pro, 64-bit
● Windows 10 Home, 64-bit
● Windows 10 Home in S-mode, 64-bit

Memory

The following table lists the memory specifications of your Inspiron 3502.

Table 6. Memory specifications

Description	Values
Memory slots	One SODIMM slot
Memory type	Dual-channel DDR4
Memory speed	2400 MHz
Maximum memory configuration	8 GB
Minimum memory configuration	4 GB
Memory size per slot	4 GB, 8 GB
Memory configurations supported	● 4 GB, 1 x 4 GB, DDR4, 2400 MHz ● 8 GB, 1 x 8 GB, DDR4, 2400 MHz

External ports

The following table lists the external ports of your Inspiron 3502.

Table 7. 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 ⓘ **NOTE:** The maximum resolution supported by the HDMI port is 1920 x 1080 at 60Hz (24-bit).
Media-card reader	One SD-card slot
Power-adapter port	One 4.50 mm x 2.90 mm (DC-in)
Security-cable slot	One wedge-shaped lock slot

Internal slots

The following table lists the internal slots of your Inspiron 3502.

Table 8. 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 000144170 at www.dell.com/support.

Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Inspiron 3502.

Table 9. Ethernet specifications

Description	Values
Model number	Ethernet controller integrated to the system board
Transfer rate	up to 10/100/1000 Mbps

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module specifications of your Inspiron 3502.

Table 10. 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 3502.

Table 11. 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 3502.

Your Inspiron 3502 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 3502 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 12. 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 3502.

Table 13. 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 3502.

Table 14. 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 Y=18.05 mm key pitch

Table 14. Keyboard specifications (continued)

Description	Values
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 3502.

Table 15. 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 3502.

Table 16. Touchpad specifications

Description	Values
Touchpad resolution:	
Horizontal	• 1230 • 1920
Vertical	• 930 • 1080
Touchpad dimensions:	
Horizontal	105 mm (4.13 in.)
Vertical	80 mm (3.15 in.)

Table 16. Touchpad specifications (continued)

Description	Values
Touchpad gestures	For more information about touchpad gestures available on Windows, see the Microsoft knowledge base article 4027871 at support.microsoft.com.

Power adapter

The following table lists the power adapter specifications of your Inspiron 3502.

Table 17. 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)

⚠ **CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.**

Battery

The following table lists the battery specifications of your Inspiron 3502.

ⓘ **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 18. 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)

Table 18. Battery specifications (continued)

Description		Values
Battery dimensions:		
	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) ⓘ **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 3502.

Table 19. 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

Table 19. Display specifications (continued)

Description	Option one	Option two
Refresh rate	60 Hz	60 Hz
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 3502.

Table 20. 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 3502.

Table 21. GPU—Integrated

Controller	External display support	Memory size	Processor
Intel UHD Graphics 600	One HDMI 1.4 port	Shared system memory	Intel Celeron Processor N4020
Intel UHD Graphics 605	One HDMI 1.4 port	Shared system memory	Intel Pentium Silver N5030 Processor

Operating and storage environment

This table lists the operating and storage specifications of your Inspiron 3502.

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

Table 22. 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)

Table 22. Computer environment (continued)

Description	Operating	Storage
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)
⚠ **CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.**		

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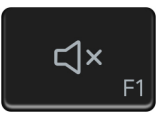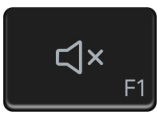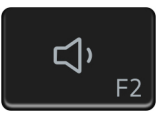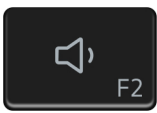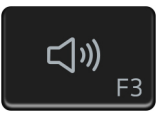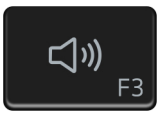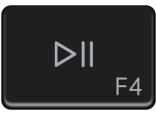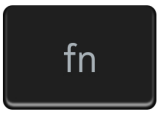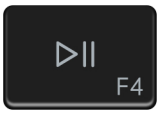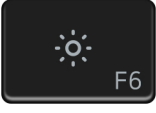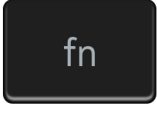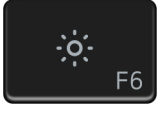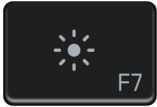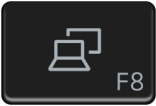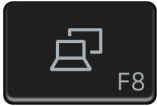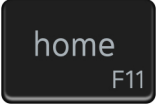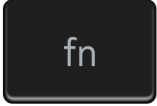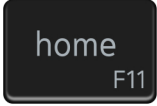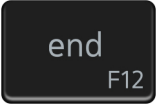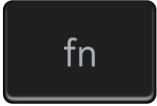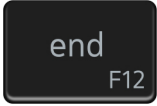
Function key	Redefined key (for multimedia control)	Behavior
◁× F1	fn + ◁× F1	Mute audio
◁⟩ F2	fn + ◁⟩ F2	Decrease volume
◁⟫ F3	fn + ◁⟫ F3	Increase volume
▷‖ F4	fn + ▷‖ F4	Play/Pause
☼ F5	fn + ☼ F5	Toggle keyboard backlight (optional) ⓘ **NOTE:** Non-backlight keyboards have F5 function key without the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

Table 23. List of keyboard shortcuts (continued)

Function key	Redefined key (for multimedia control)	Behavior
F7 (brightness)	fn + F7 (brightness)	Increase brightness
F8 (external display)	fn + F8 (external display)	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 24. List of keyboard shortcuts
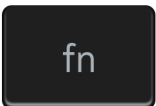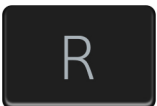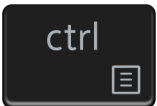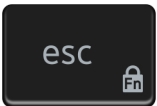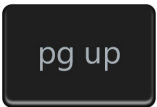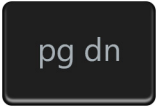
Function key	Behavior
fn + B	Pause/Break
fn + S	Toggle scroll lock
fn + R	System request
fn + ctrl	Open application menu
fn + esc	Toggle fn-key lock
fn + (space)	Emoji
fn + pg up	Page up

Table 24. List of keyboard shortcuts (continued)

Function key	Behavior
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 25. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	www.dell.com
My Dell app	
Tips	
Contact Support	In Windows search, type `Contact Support`, and press Enter.
Online help for operating system	www.dell.com/support/windows
Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals and documents.	Your Dell computer is uniquely identified by a Service Tag or Express Service Code. To view relevant support resources for your Dell computer, enter the Service Tag or Express Service Code at www.dell.com/support. For more information on how to find the Service Tag for your computer, see Locate the Service Tag on your computer.
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.

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.