

Inspiron 15 5510

Setup and Specifications

Notes, cautions, and warnings

 **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.

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Set up your Inspiron 15 5510

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 operating system setup.

For Ubuntu:

Follow the on-screen instructions to complete the setup. For more information about installing and configuring Ubuntu, search in the Knowledge Base Resource 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.

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
	<p>My Dell</p> <p>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.</p>

Table 1. Locate Dell apps (continued)

Resources	Description
	<p>SupportAssist</p> <p>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 <i>SupportAssist for Home PCs User's Guide</i> at www.dell.com/serviceabilitytools. Click SupportAssist and then, click SupportAssist for Home PCs.</p> <p> NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p>
	<p>Dell Update</p> <p>Updates your computer with critical fixes and latest device drivers as they become available. For more information on using Dell Update, search in the Knowledge Base Resource at www.dell.com/support.</p>
	<p>Dell Digital Delivery</p> <p>Download software applications, which are purchased but not preinstalled on your computer. For more information on using Dell Digital Delivery, search in the Knowledge Base Resource at www.dell.com/support.</p>

Views of Inspiron 15 5510

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)

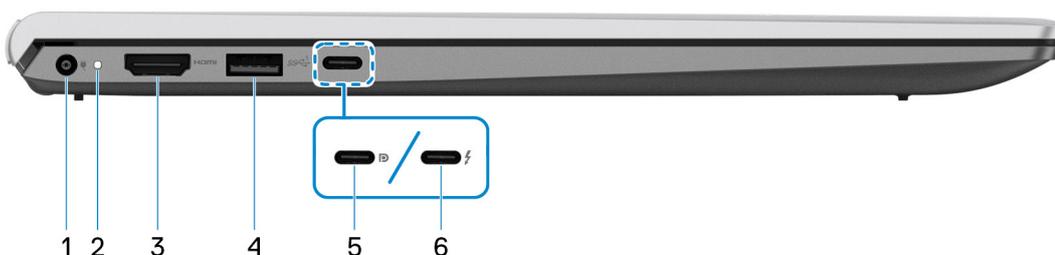
2. USB 3.2 Gen 1 port

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

3. Global headset jack

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

Left



1. Power-adaptor port

Connect a power adapter to provide power to your computer.

2. Power and battery-status light

Indicates the power state and battery state of the computer.

Solid white—Power adapter is connected and the battery is charging.

Solid amber—Battery charge is low or critical.

Off—Battery is fully charged.

NOTE: On certain computer models, the power and battery-status light are also used for diagnostics. For more information, see the *Troubleshooting* section in your computer's *Service Manual*.

3. HDMI 1.4 port

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

4. USB 3.2 Gen 1 port

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

5. USB 3.2 Gen 2 Type C port with DisplayPort 1.4 and Power Delivery

Connect devices such as external storage devices, printers, and external displays. Provides data transfer rate of up to 10 Gbps.

Supports Power Delivery that enables two-way power supply between devices. Provides up to 15 W power output that enables faster charging.

NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

6. Thunderbolt 4.0 port with Power Delivery

Supports USB4, DisplayPort 1.4, Thunderbolt 4 and also enables you to connect to an external display using a display adapter. Provides data transfer rates of up to 40 Gbps for USB4 and Thunderbolt 4.

NOTE: You can connect a Dell Docking Station to the Thunderbolt 4 ports. For more information, search in the Knowledge Base Resource at www.dell.com/support.

NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

NOTE: USB4 is backward compatible with USB 3.2, USB 2.0, and Thunderbolt 3.

NOTE: Thunderbolt 4 supports two 4K displays or one 8K display.

Top



1. Precision 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 four seconds to force shut-down the computer.

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

 **NOTE:** You can customize the power-button behavior in Windows.

Front



1. **Left microphone**

Provides digital sound input for audio recording and voice calls.

2. **Camera**

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

3. **Privacy shutter**

Slide the privacy shutter to cover the camera lens and protect your privacy when the camera is not in use.

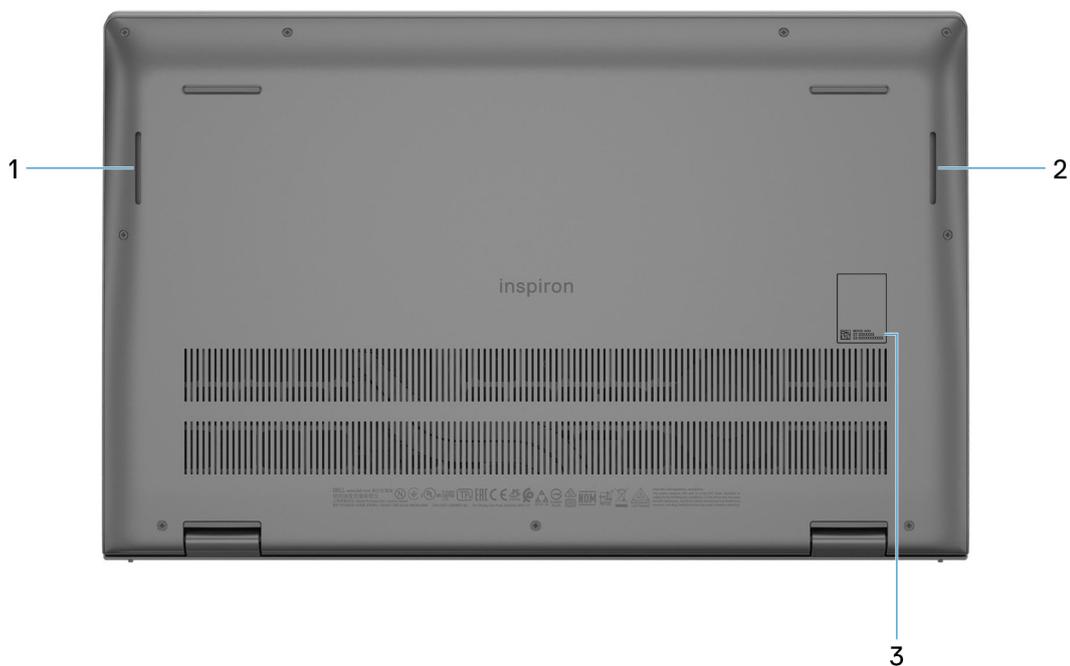
4. **Camera-status light**

Turns on when the camera is in use.

5. **Right microphone**

Provides digital sound input for audio recording and voice calls.

Bottom



1. Left speaker

Provides audio output.

2. Right speaker

Provides audio output.

3. Service Tag

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.

Specifications of Inspiron 15 5510

Dimensions and weight

The following table lists the height, width, depth, and weight of your Inspiron 15 5510.

Table 2. Dimensions and weight

Description	Values
Height:	
Front height	14.59 mm (0.57 in.)
Rear height	17.99 mm (0.71 in.)
Width	356.06 mm (14.02 in.)
Depth	228.90 mm (9.01 in.)
Weight  NOTE: The weight of your computer depends on the configuration that is ordered and manufacturing variability.	1.75 kg (3.86 lb) (maximum)

Processor

The following table lists the details of the processors that are supported for your Inspiron 15 5510.

Table 3. Processor

Description	Option one	Option two	Option three
Processor type	11 th Generation Intel Core i3-1125G4	11 th Generation Intel Core i5-11300H	11 th Generation Intel Core i7-11370H
Processor wattage	28 W	35 W	35 W
Processor core count	4	4	4
Processor thread count	8	8	8
Processor speed	2 GHz to 3.70 GHz	3.10 GHz to 4.40 GHz	3.30 GHz to 4.80 GHz
Processor cache	8 MB	8 MB	12 MB
Integrated graphics	Intel UHD Graphics	Intel Iris X ^e Graphics	Intel Iris X ^e Graphics

Chipset

The following table lists the details of the chipset that is supported for your Inspiron 15 5510.

Table 4. Chipset

Description	Values
Chipset	Integrated in the processor
Processor	11 th Generation Intel Core i3/i5/i7
DRAM bus width	64-bit
Flash EPROM	32 MB
PCIe bus	Up to Gen3

Operating system

Your Inspiron 15 5510 supports the following operating systems:

- Windows 11 Home, 64-bit
- Windows 11 Home in S-mode, 64-bit
- Windows 11 Pro, 64-bit
- Windows 11 Pro National Academic, 64-bit
- Windows 10 Home, 64-bit
- Windows 10 Home in S-mode, 64-bit
- Windows 10 Pro, 64-bit
- Ubuntu 20.04 LTS, 64-bit

Memory

The following table lists the memory specifications of your Inspiron 15 5510.

Table 5. Memory specifications

Description	Values
Memory slots	Two SODIMM slots
Memory type	DDR4
Memory speed	3200 MT/s
Maximum memory configuration	32 GB
Minimum memory configuration	4 GB
Memory size per slot	4 GB, 8 GB, or 16 GB
Memory configurations supported	<ul style="list-style-type: none">• 4 GB (1 x 4 GB), DDR4, 3200 MT/s• 8 GB (2 x 4 GB), DDR4, 3200 MT/s, dual-channel• 8 GB (1 x 8 GB), DDR4, 3200 MT/s• 12 GB (1 x 4 GB + 1 x 8 GB), DDR4, 3200 MT/s• 16 GB (1 x 16 GB), DDR4, 3200 MT/s• 16 GB (2 x 8 GB), DDR4, 3200 MT/s, dual-channel

Table 5. Memory specifications (continued)

Description	Values
	<ul style="list-style-type: none">• 24 GB (1 x 8 GB + 1 x 16 GB), DDR4, 3200 MT/s• 32 GB (2 x 16 GB), DDR4, 3200 MT/s, dual-channel

External ports

The following table lists the external ports on your Inspiron 15 5510.

Table 6. External ports

Description	Values
USB ports	<ul style="list-style-type: none">• Two USB 3.2 Gen 1 ports• One USB 3.2 Gen 2 Type-C port with DisplayPort 1.4 and Power Delivery (in computers shipped with i3 or i5 processor)• One USB Type-C Thunderbolt 4.0 port (in computers shipped with i7 processor) <p>NOTE: You can connect a Dell Docking Station to this port. For more information, see the knowledge base article 000124295 at www.dell.com/support.</p>
Audio port	One global headset jack
Video port/ports	<ul style="list-style-type: none">• One USB 3.2 Gen 2 Type-C port with DisplayPort 1.4 and Power Delivery (in computers shipped with i3 or i5 processor) <p>NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect to a DisplayPort device.</p> <ul style="list-style-type: none">• One USB Type-C Thunderbolt 4.0 port (in computers shipped with i7 processor) <p>NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect to a DisplayPort device.</p> <ul style="list-style-type: none">• HDMI 1.4 port
Media-card reader	One SD-card slot
Power-adaptor port	DC-IN through an AC adaptor (4.50 mm x 2.90 mm)
Security-cable slot	Not applicable

Internal slots

The following table lists the internal slots of your Inspiron 15 5510.

Table 7. Internal slots

Description	Values
M.2	<ul style="list-style-type: none">• One slot for M.2 2230 WiFi and Bluetooth combo card• One slot for M.2 2230/2280 solid-state drive/Intel Optane Memory H20• One slot for M.2 2230 slot for solid-state drive

Table 7. Internal slots

Description	Values
	 NOTE: To learn more about the features of different types of M.2 cards, search in the Knowledge Base Resource at www.dell.com/support .

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module specifications of your Inspiron 15 5510.

Table 8. Wireless module specifications

Description	Option one	Option two	Option three
Model number	Intel 9462	Qualcomm QCA61x4A (DW1820)	Intel AX201
Transfer rate	Up to 433 Mbps	Up to 867 Mbps	Up to 2400 Mbps
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz	2.4 GHz/5 GHz
Wireless standards	<ul style="list-style-type: none"> • WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) 	<ul style="list-style-type: none"> • WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) 	<ul style="list-style-type: none"> • WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) • Wi-Fi 6 (WiFi 802.11ax)
Encryption	<ul style="list-style-type: none"> • 64-bit/128-bit WEP • AES-CCMP • TKIP 	<ul style="list-style-type: none"> • 64-bit/128-bit WEP • AES-CCMP • TKIP 	<ul style="list-style-type: none"> • 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth wireless card	Bluetooth 5.0	Bluetooth 5.0	Bluetooth 5.2
	 NOTE: The version of the Bluetooth wireless card may vary depending on the operating system that is installed on your computer.		

Audio

The following table lists the audio specifications of your Inspiron 15 5510.

Table 9. Audio specifications

Description	Values
Audio controller	Realtek
Stereo conversion	Supported
Internal audio interface	High-definition audio
External audio interface	Global headset jack
Number of speakers	Two
Internal-speaker amplifier	Supported (audio codec built-in amplifier)
External volume controls	Keyboard shortcut controls

Table 9. Audio specifications (continued)

Description		Values
Speaker output:		
	Average speaker output	2 W
	Peak speaker output	2.5 W
Subwoofer output		Not supported
Microphone		Dual digital-array microphones

Storage

This section lists the storage options on your Inspiron 15 5510.

Your Inspiron 15 5510 supports the following storage options:

- M.2 slot one: One M.2 2230 or M.2 2280 solid-state drive
- M.2 slot two: One M.2 2230 solid-state drive

The primary drive of your Inspiron 15 5510 is the M.2 solid-state drive where the operating system is installed.

Table 10. Storage specifications

Storage type	Interface type	Capacity
M.2 2230 solid-state drive	PCIe NVMe Gen3 x2 NVMe, up to 32 Gbps	Up to 1 TB
M.2 2280 solid-state drive	PCIe Gen3 x2 NVMe, up to 32 Gbps	Up to 2 TB

Intel Optane Memory H20 with Solid-State Storage (optional)

Intel Optane Memory technology uses 3D XPoint memory technology and functions as a nonvolatile storage cache/accelerator and/or storage device depending on the Intel Optane Memory that is installed in your system.

Intel Optane Memory H20 with Solid-State Storage functions as both a nonvolatile storage cache/accelerator (enabling enhanced read/write speeds for hard drive storage) and a solid-state storage solution. It neither replaces nor adds to the memory (RAM) installed on your system.

Table 11. Intel Optane Memory H20 with Solid-State Storage specifications

Description	Values
Interface	PCIe NVMe Gen3 x4
Connector	M.2 2280
Form factor	2280
Capacity (Intel Optane memory)	Up to 32 GB
Capacity (solid-state storage)	Up to 512 GB

NOTE: Intel Optane Memory H20 with Solid-State Storage is supported on systems that meet the following requirements:

- 11th Generation or higher Intel Core i3/i5/i7 processors
- Windows 10 64-bit version or higher
- Intel Rapid Storage Technology driver version 18.1.0.1027 or higher

Media-card reader

The following table lists the media cards that are supported on your Inspiron 15 5510.

Table 12. Media-card reader specifications

Description	Values
Media-card type	One SD-card slot
Media-cards supported	<ul style="list-style-type: none">Secure Digital (SD)Secure Digital High Capacity (SDHC)Secure Digital Extended Capacity (SDXC)
<p> NOTE: The maximum capacity supported by the media-card reader varies depending on the standard of the media card that is installed on your computer.</p>	

Keyboard

The following table lists the keyboard specifications of your Inspiron 15 5510.

Table 13. Keyboard specifications

Description	Values
Keyboard type	<ul style="list-style-type: none">Standard keyboardBacklit keyboard
Keyboard layout	QWERTY
Number of keys	<ul style="list-style-type: none">United States and Canada: 99 keysUnited Kingdom: 100 keysJapan: 103 keys
Keyboard size	X=18.70 mm key pitch Y=18.05 mm key pitch
Keyboard shortcuts	<p>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.</p> <p> NOTE: You can define the primary behavior of the function keys (F1–F12) changing Function Key Behavior in BIOS setup program.</p>

Camera

The following table lists the camera specifications of your Inspiron 15 5510.

Table 14. Camera specifications

Description	Values
Number of cameras	One
Camera type	HD RGB

Table 14. Camera specifications (continued)

Description		Values
Camera location		Front
Camera sensor type		CMOS sensor technology
Camera resolution:		
	Still image	0.92 megapixel
	Video	1280 x 720 (HD) at 30 fps
Diagonal viewing angle:		74.90 degrees

Touchpad

The following table lists the touchpad specifications of your Inspiron 15 5510.

Table 15. Touchpad specifications

Description		Values
Touchpad resolution:		
	Horizontal	3512
	Vertical	2442
Touchpad dimensions:		
	Horizontal	115 mm (4.53 in.)
	Vertical	80 mm (3.15 in.)
Touchpad gestures		For more information about touchpad gestures available on Windows, see the Microsoft Knowledge Base article at support.microsoft.com .

Power adapter

The following table lists the power adapter specifications of your Inspiron 15 5510.

Table 16. Power adapter specifications

Description		Values
Type		65 W DC-in
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)		1.70 A

Table 16. Power adapter specifications (continued)

Description		Values
Output current (continuous)		3.34 A
Rated output voltage		19.50 VDC
Temperature range:		
	Operating	0°C to 40°C (32°F to 104°F)
	Storage	-40°C to 70°C (-40°F to 158°F)
 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 15 5510.

Table 17. Battery specifications

Description	Option one	Option two
Battery type	3-cell polymer (41 Wh)	4-cell polymer (54 Wh)
Battery voltage	11.25 VDC	15 VDC
Battery weight (maximum)	0.176 kg (0.39 lb)	0.231 kg (0.51 lb)
Battery dimensions:		
	Height	5.75 mm (0.23 in.)
	Width	206.40 mm (8.13 in.)
	Depth	82 mm (3.23 in.)
Temperature range:		
	Operating	0°C to 35°C (32°F to 95°F)
	Storage	-20°C to 65°C (-4°F to 149°F)
Battery operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	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 on the Dell Power Manager see, <i>Me and My Dell</i> on www.dell.com .	4 hours (when the computer is off)	4 hours (when the computer is off)
Coin-cell battery	CR2032	CR2032
 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.		

Display

The following table lists the display specifications of your Inspiron 15 5510.

Table 18. Display specifications

Description		Option one	Option two	Option three
Display type		Full High Definition (FHD), ComfortView Plus	Full High Definition (FHD), ComfortView	Full High Definition (FHD), ComfortView
Touch options		No	No	Yes
Display-panel technology		Wide-Viewing Angle (WVA)	Wide-Viewing Angle (WVA)	Wide-Viewing Angle (WVA)
Display-panel dimensions (active area):				
	Height	193.60 mm (7.62 in.)	193.60 mm (7.62 in.)	193.60 mm (7.62 in.)
	Width	344.20 mm (13.55 in.)	344.20 mm (13.55 in.)	344.20 mm (13.55 in.)
	Diagonal	394.90 mm (15.60 in.)	394.90 mm (15.60 in.)	394.90 mm (15.60 in.)
Display-panel native resolution		1920 x 1080	1920 x 1080	1920 x 1080
Luminance (typical)		300 nits	250 nits	250 nits
Megapixels		2.0736	2.0736	2.0736
Color gamut		sRGB 100% (typical)	NTSC 45% (typical)	NTSC 45% (typical)
Pixels Per Inch (PPI)		141 ppi	141 ppi	141 ppi
Contrast ratio (typical)		600:1	600:1	600:1
Response time (maximum)		35 ms	35 ms	35 ms
Refresh rate		60 Hz	60 Hz	60 Hz
Horizontal view angle		80	80	80
Vertical view angle		80	80	80
Pixel pitch		0.179 mm x 0.179 mm	0.179 mm x 0.179 mm	0.179 mm x 0.179 mm
Power consumption (maximum)		4.40 W	4.60 W	4.60 W
Anti-glare vs glossy finish		Anti-glare	Anti-glare	Anti-glare

Fingerprint reader

The following table lists the fingerprint-reader specifications of your Inspiron 15 5510.

Table 19. Fingerprint reader specifications

Description	Values
Fingerprint-reader sensor technology	Capacitive

Table 19. Fingerprint reader specifications (continued)

Description	Values
Fingerprint-reader sensor resolution	500 dpi
Fingerprint-reader sensor pixel size	108 x 88

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Inspiron 15 5510.

Table 20. GPU—Integrated

Controller	Memory size	Processor
Intel UHD Graphics	Shared system memory	11 th Generation Intel Core i3
Intel Iris X ^e Graphics	Shared system memory	11 th Generation Intel Core i5/i7

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Inspiron 15 5510.

Table 21. GPU—Discrete

Controller	Memory size	Memory type
NVIDIA GeForce MX450	2 GB	GDDR5

Computer environment

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)	50% to 90% (non-condensing)	2% to 95% (non-condensing)
Vibration (maximum)*	0.66 GRMS	Not applicable
Shock (maximum)	140 G†	160 G†
Altitude (maximum)	-15.2 m to 3048 m (4.64 ft to 5518.4 ft)	-15.2 m to 10668 m (4.64 ft to 19234.4 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.

Dell ComfortView

 **CAUTION:** Prolonged exposure to blue light, particularly from digital sources, may disrupt sleep patterns and cause long-term effects such as eye strain, eye fatigue, or damage to the eyes.

Blue light is a color in the white light spectrum which has a short wavelength and high frequency. Chronic exposure to blue light, particularly from digital sources, may disrupt sleep patterns and change our body's Circadian rhythm. Using the computer for an extended period may also cause fatigue in other body parts such as the neck, arm, back, and shoulder.

Dell low blue light displays optimize eye comfort with a flicker-free screen. The ComfortView feature reduces the amount of blue light emitted from the monitor to optimize eye comfort. ComfortView mode can be enabled and configured using the **Dell CinemaColor** (DCC) application. Dell ComfortView is certified by TÜV.

Dell CinemaColor

Dell CinemaColor (DCC) combines the hardware and software to deliver clear visuals that appear every bit as vibrant as the world around you. The DCC has four color profiles that optimize these settings depending on the content and your surroundings.

When you open DCC, you can choose **Movie (default)**, **ComfortView**, **Sports**, or **Animation** from the list. The ComfortView Profile optimizes eye comfort with a Low Blue Light software solution that meets TÜV standards to reduce harmful blue light emissions to make extended screen time easy on your eyes compared to standard digital panels while still retaining the vibrant colors.

ComfortView mode is certified by TÜV for the effective reduction of hazardous blue light by adjusting display parameters. You can adjust the Saturation, Temperature, and Contrast values to create your custom setting in the ComfortView mode.

 **NOTE:** For more information on DellCinema components see KB article [000178241](https://www.dell.com/support) at www.dell.com/support.

ComfortView Plus

ComfortView Plus is a built-in, always-on, and virtually unnoticeable low blue light solution for Dell displays. ComfortView Plus employs a hardware-based design that allows for a wider blue spectrum, with a much lower peak and reduced intensity. Dell ComfortView Plus is certified by TÜV certified - low blue light hardware solution.

 **NOTE:** ComfortView Plus is an optional hardware feature to be configured at the point of sale.

To reduce the risk of eye strain, it is also recommended that you:

- Position the display at a comfortable viewing distance between 20 in. to 28 in. (50 cm and 70 cm) from your eyes.
- Blink frequently to moisten your eyes, wet your eyes with water, or apply suitable eye drops.
- Look away from your display, and gaze at a distant object at 20 ft (609.60 cm) away for at least 20 seconds during each break.
- Take an extended break for 20 minutes every two hours.

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	Re-defined key (for multi-media 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)
F6	fn + F6	Decrease brightness
F7	fn + F7	Increase brightness
F8	fn + F8	Switch to external display
F10	fn + F10	Print screen
F11	fn + F11	Home
F12	fn + 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 + H	Toggle between power light and battery-status light
fn + S	Toggle scroll lock
fn + R	System request
fn + ctrl	Open application menu
fn + esc	Toggle fn-key lock
fn + page up	Page up

Table 24. List of keyboard shortcuts (continued)

Function key	Behavior
fn + page down	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 <code>Contact Support</code> , and press Enter.
Online help for operating system	www.dell.com/support/windows www.dell.com/support/linux
Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals, and documents.	Your Dell computer is uniquely identified using 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 about how to find the Service Tag for your computer, see Locate the Service Tag on your computer .
Dell knowledge base articles	<ol style="list-style-type: none"> 1. Go to www.dell.com/support. 2. On the menu bar at the top of the Support page, select Support > Support Library. 3. In the Search field on the Support Library 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 of the services may vary depending on the country or region, and product.

 **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.