


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 ordered and manufacturing variability.	1.75 kg (3.86 lb) (maximum)

Processor

The following table lists the details of the processors supported by 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 supported by 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 MHz
Maximum memory configuration	32 GB
Minimum memory configuration	4 GB
Memory size per slot	4 GB, 8 GB, and 16 GB
Memory configurations supported	<ul style="list-style-type: none">• 4 GB (1 x 4 GB), DDR4, 3200 MHz• 8 GB (2 x 4 GB), DDR4, 3200 MHz, dual-channel• 8 GB (1 x 8 GB), DDR4, 3200 MHz• 12 GB (1 x 4 GB + 1 x 8 GB), DDR4, 3200 MHz• 16 GB (1 x 16 GB), DDR4, 3200 MHz• 16 GB (2 x 8 GB), DDR4, 3200 MHz, 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 MHz • 32 GB (2 x 16 GB), DDR4, 3200 MHz, 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 2x2 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 2x2 Type-C port with DisplayPort 1.4 and Power Delivery (in computers shipped with i3 or i5 processor) • NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect to a DisplayPort device. • One USB Type-C Thunderbolt 4.0 port (in computers shipped with i7 processor) • NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect to a DisplayPort device. • HDMI 1.4 port
Media-card reader	One SD-card slot
Power-adaptor port	DC-IN through an AC adapter (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 M.2 2230 slot for WiFi and Bluetooth combo card • One M.2 2230/2280 slot for solid-state drive/Intel Optane Memory H20 • One M.2 2280 slot for solid-state drive/Intel Optane Memory H20

Table 7. Internal slots

Description	Values
	 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 .

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	Bluetooth 5.0	Bluetooth 5.0	Bluetooth 5.2

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
Speaker output:	
Average speaker output	2 W

Table 9. Audio specifications (continued)

Description		Values
	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 one of the following storage options:

- One M.2 2230 or M.2 2280 solid-state drive
- A combination of two M.2 solid-state drives (M.2 2230 or M.2 2280)

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 supported by 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)
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 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 4027871 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)	4 hours (when the computer is off)	4 hours (when the computer is off)
 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 .		
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
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 (typ)		600:1	600:1	600:1
Response time (max)		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
Touch options		No	No	Yes

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.