


Specifications of XPS 15 9510

Dimensions and weight

The following table lists the height, width, depth, and weight of your XPS 15 9510.

Table 2. Dimensions and weight

Description	Values
Height:	
Front height	7.70 mm (0.30 in.)
Rear height	18.00 mm (0.70 in.)
Width	344.40 mm (13.56 in.)
Depth	230.30 mm (9.07 in.)
Weight (maximum)	2.04 kg (4.50 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 XPS 15 9510.

Table 3. Processor

Description	Option one	Option two	Option three
Processor type	11 th Generation Intel Core i5-11400H	11 th Generation Intel Core i7-11800H	11 th Generation Intel Core i9-11900H
Processor wattage	45 W	45 W	45 W
Processor core count	6	8	8
Processor thread count	12	16	16
Processor speed	Up to 4.50 GHz	Up to 4.60 GHz	Up to 4.90 GHz
Processor cache	12 MB	24 MB	24 MB
Integrated graphics	Intel UHD Graphics	Intel UHD Graphics	Intel UHD Graphics

Chipset

The following table lists the details of the chipset supported by your XPS 15 9510.

Table 4. Chipset

Description	Values
Chipset	Intel WM 590
Processor	11th Generation Intel Core i5/i7/i9
DRAM bus width	128-bit
Flash EPROM	32 MB
PCIe bus	Up to PCIe Gen 3.0

Operating system

Your XPS 15 9510 supports the following operating systems:

- Windows 10 Home, 64-bit
- Windows 10 Pro, 64-bit

Memory

The following table lists the memory specifications of your XPS 15 9510.


Table 5. Memory specifications

Description	Values
Memory slots	Two-SODIMM slots
Memory type	Dual-channel DDR4
Memory speed	3200 MHz
Maximum memory configuration	64 GB
Minimum memory configuration	4 GB
Memory size per slot	4 GB, 8 GB, 16 GB, 32 GB
Memory configurations supported	<ul style="list-style-type: none">• 8 GB DDR4 at 3200 MHz (2 x 4 GB), dual channel• 16 GB DDR4 at 3200 MHz (2 x 8 GB), dual channel• 32 GB DDR4 at 3200 MHz (2 x 16 GB), dual channel• 64 GB DDR4 at 3200 MHz (2 x 32 GB), dual channel

Internal slots

The following table lists the internal slots of your XPS 15 9510.



Table 6. Internal slots

Description	Values
M.2	Two 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 .

External ports

The following table lists the external ports on your XPS 15 9510.

Table 7. External ports

Description	Values
USB ports	<ul style="list-style-type: none">One USB 3.2 Gen 2 (Type-C) port with Power Delivery/ DisplayPortTwo Thunderbolt 4 (USB4) USB Type-C port with Power Delivery  NOTE: Connect the power adapter (USB Type-C) to one of the three USB Type-C ports.
Audio port	One headset (headphone and microphone combo) port
Video port	<ul style="list-style-type: none">One USB 3.2 Gen 2 (Type-C) port with Power Delivery/ DisplayPortTwo Thunderbolt 4 (USB4) USB Type-C port with Power Delivery  NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.
Media-card reader	One SD-card slot
Docking port	Not supported
Power-adapter port	DC-IN through one of the three USB Type-C ports
Security	Security-cable slot (wedge-shaped)

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module supported on your XPS 15 9510.

Table 8. Wireless module specifications

Description	Values
Model number	Killer AX1650s
Transfer rate	Up to 2400 Mbps

Table 8. Wireless module specifications (continued)

Description	Values
Frequency bands supported	2.4 GHz/5 GHz
Wireless standards	Wi-Fi 6 (WiFi 802.11ax)
Encryption	<ul style="list-style-type: none">• 64-bit/128-bit WEP• AES-CCMP• TKIP
Bluetooth	Bluetooth 5.1

Audio

The following table lists the audio specifications of your XPS 15 9510.

Table 9. Audio specifications

Description		Values
Audio controller		Realtek ALC3281-CG
Stereo conversion		Supported
Internal audio interface		High Definition Audio (HDA)
External audio interface		Universal audio jack
Number of speakers		Two
Internal-speaker amplifier		Supported
External volume controls		Keyboard shortcut controls
Speaker output:		
	Average speaker output	8 W
	Peak speaker output	10 W
Subwoofer output		Supported
Microphone		Digital-array microphones

Storage

This section lists the storage options on your XPS 15 9510.

Your XPS 15 9510 supports one of the following storage options:

- One M.2 2230 solid-state drive
- One M.2 2280 solid-state drive

Table 10. Storage specifications

Storage type	Interface type	Capacity
M.2 2230 solid-state drive	PCIe NVMe up to 64 Gbps	Up to 256 GB


Table 10. Storage specifications (continued)

Storage type	Interface type	Capacity
M.2 2280 solid-state drive	PCIe NVMe up to 64 Gbps	Up to 4 TB

Media-card reader

The following table lists the media cards supported by your XPS 15 9510.


Table 11. 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 XPS 15 9510.

Table 12. Keyboard specifications

Description	Values
Keyboard type	Backlit keyboard
Keyboard layout	QWERTY
Number of keys	<ul style="list-style-type: none">United States and Canada: 79 keysUnited Kingdom: 80 keysJapan: 83 keys
Keyboard size	X = 19.05 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> <p>For more information, see keyboard shortcuts Keyboard shortcuts.</p>

Camera

The following table lists the camera specifications of your XPS 15 9510.

Table 13. Camera specifications

Description		Values
Number of cameras		One
Camera type		RGB IR HD camera
Camera location		Front
Camera sensor type		CMOS-sensor technology
Camera resolution:		
	Still image	0.90 megapixel
	Video	1280 x 720 (HD) at 30 fps
Infrared camera resolution:		
	Still image	0.20 megapixel
	Video	576 x 360 (VGA) at 30 fps
Diagonal viewing angle:		
	Camera	78.30 degrees
	Infrared camera	78.30 degrees

Touchpad

The following table lists the touchpad specifications of your XPS 15 9510.


Table 14. Touchpad specifications

Description		Values
Touchpad resolution:		
	Horizontal	4655
	Vertical	2731
Touchpad dimensions:		
	Horizontal	150 mm (5.91 in.)
	Vertical	90 mm (3.54 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 XPS 15 9510.

Table 15. Power adapter specifications

Description		Option one	Option two
Type		90 W USB Type-C	130 W USB Type-C
Input voltage		100 VAC–240 VAC	100 VAC–240 VAC
Input frequency		50 Hz–60 Hz	50 Hz–60 Hz
Input current (maximum)		1.50 A	1.80 A
Output current (continuous)		4.50 A	6.50 A
Rated output voltage		20 VDC	20 VDC
Temperature range:			
	Operating	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
	Storage	-40°C to 70°C (-40°F to 158°F)	-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 XPS 15 9510.

Table 16. Battery specifications

Description		Option one	Option two
Battery type		56 Wh, 3-cell "smart" lithium-ion	86 Wh, 6-cell "smart" lithium-ion
Battery voltage		11.40 VDC	11.40 VDC
Battery weight (maximum)		0.26 kg (0.57 lb)	0.34 kg (0.75 lb)
Battery dimensions:			
	Height	77.70 mm (3.06 in.)	77.70 mm (3.06 in.)
	Width	295.20 mm (11.62 in.)	295.20 mm (11.62 in.)
	Depth	7.56 mm (0.30 in.)	7.56 mm (0.30 in.)
Temperature range:			
	Operating	0°C to 70°C (32°F to 158°F)	0°C to 70°C (32°F to 158°F)
	Storage	-20°C to 65°C (-4°F to 149°F)	-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.

Table 16. Battery specifications (continued)

Description	Option one	Option two
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 on the Dell Power Manager see, <i>Me and My Dell</i> on www.dell.com/	3 hours (when the computer is off)	3 hours (when the computer is off)
Coin-cell battery	Not supported	Not supported

Display

The following table lists the display specifications of your XPS 15 9510.

Table 17. Display specifications

Description	Option one	Option two	Option three
Display type	Full High Definition (FHD)	Ultra High Definition (UHD+)	Organic Light-Emitting Diode (OLED)
Display-panel technology	Wide viewing angle (WVA)	Wide viewing angle (WVA)	Wide viewing angle (WVA)
Display-panel dimensions (active area):			
Height	336.38 mm (13.24 in.)	336.38 mm (13.24 in.)	336.38 mm (13.24 in.)
Width	210.24 mm (8.28 in.)	210.24 mm (8.28 in.)	210.24 mm (8.28 in.)
Diagonal	396.24 mm (15.60 in.)	396.24 mm (15.60 in.)	396.24 mm (15.60 in.)
Display-panel native resolution	1920 x 1200	3840 x 2400	3456 x 2160
Luminance (typical)	500 nits	500 nits	400 nits
Megapixels	2.30	9.20	7.40
Color gamut	sRGB 100%	AdobeRGB Min 100%	DCI-P3 typ 100%
Pixels Per Inch (PPI)	145	290	261
Contrast ratio (typ)	1650:1	1600:1	80000:1
Response time (max)	35 ms	35 ms	2 ms
Refresh rate	60 Hz	60 Hz	60 Hz
Horizontal view angle	85 +/- degrees	85 +/- degrees	85 +/- degrees
Vertical view angle	85 +/- degrees	85 +/- degrees	85 +/- degrees
Pixel pitch	0.180 mm	0.090 mm	0.097 mm
Power consumption (maximum)	4.41 W	10.40 W	12.13 W

Table 17. Display specifications (continued)

Description	Option one	Option two	Option three
Anti-glare vs glossy finish	Anti-glare	Anti-reflection	Anti-reflection
Touch options	No	Yes	Yes

Fingerprint reader

The following table lists the fingerprint-reader specifications of your XPS 15 9510.


 **NOTE:** The fingerprint reader is located on the power button.

Table 18. Fingerprint reader specifications

Description	Values
Fingerprint-reader sensor technology	Capacitive
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 XPS 15 9510.

Table 19. GPU—Integrated

Controller	Memory size	Processor
Intel UHD Graphics	Shared system memory	11th Generation Intel Core i5/i7/i9

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your XPS 15 9510.

Table 20. GPU—Discrete

Controller	Memory size	Memory type
NVIDIA GeForce RTX 3050	4 GB	GDDR6
NVIDIA GeForce RTX 3050 Ti	4 GB	GDDR6

Operating and storage environment


This table lists the operating and storage specifications of your XPS 15 9510.

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

Table 21. Computer environment

Description	Operating	Storage
Temperature range	0°C to 35°C (32°F to 95°F)	-40°C to 65°C (-40°F to 149°F)

Table 21. Computer environment (continued)

Description	Operating	Storage
Relative humidity (maximum)	10% to 90% (noncondensing)	0% to 95% (noncondensing)
Vibration (maximum)*	0.66 GRMS	1.30 GRMS
Shock (maximum)	110 G†	160 G†
Altitude range	-15.2 m to 3048 m (-49.87 ft to 10000 ft)	-15.2 m to 10668 m (-49.87 ft to 35000 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.

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