


Specifications of XPS 17 9710

Dimensions and weight

The following table lists the height, width, depth, and weight of your XPS 17 9710.

Table 2. Dimensions and weight

Description	Values
Height:	
Front height	8.67 mm (0.34 in.)
Rear height	13.15 mm (0.52 in.)
Width	374.48 mm (14.74 in.)
Depth	248.08 mm (9.77 in.)
Weight  NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.	2.53 kg (5.58 lb) (maximum)

Processor

The following table lists the details of the processors supported by your XPS 17 9710.

Table 3. Processor

Description	Option one	Option two	Option three	Option four
Processor type	11 th Generation Intel Core i5-11400H	11 th Generation Intel Core i7-11800H	11 th Generation Intel Core i9-11900H	11 th Generation Intel Core i9-11980HK
Processor wattage	45 W	45 W	45 W	45 W
Processor core count	6	8	8	8
Processor thread count	12	16	16	16
Processor speed	2.70 GHz to 4.50 GHz	2.30 GHz to 4.60 GHz	2.50 GHz to 4.90 GHz	2.60 GHz to 5 GHz
Processor cache	12 MB	24 MB	24 MB	24 MB
Integrated graphics	Intel UHD Graphics	Intel UHD Graphics	Intel UHD Graphics	Intel UHD Graphics

Chipset

The following table lists the details of the chipset supported by your XPS 17 9710.

Table 4. Chipset

Description	Values
Chipset	Intel WM590
Processor	11 th Generation Intel Core i5/i7/i9
DRAM bus width	64-bit
Flash EPROM	32 MB
PCIe bus	Up to PCIe Gen 4.0

Operating system

Your XPS 17 9710 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 17 9710.


Table 5. Memory specifications

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

Internal slots

The following table lists the internal slots of your XPS 17 9710.





Table 6. Internal slots

Description	Values
M.2	Two M.2 slots for M.2 2230/2280 solid-state drives  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 17 9710.

Table 7. External ports

Description	Values
USB ports	Four Thunderbolt 4 ports  NOTE: Connect the USB Type-C power adapter to only one of the four Thunderbolt 4 ports.  NOTE: You can connect a Dell Docking Station to this port. For more information, see the knowledge base article SLN286158 at www.dell.com/support .
Audio port	One universal audio jack
Video port/ports	Four Thunderbolt 4 ports  NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.
Media-card reader	One SD-card slot
Power-adapter port	DC-IN through one of the four Thunderbolt 4 ports  NOTE: You can connect a Dell Docking Station to this port. For more information, see the knowledge base article SLN286158 at www.dell.com/support .
Security-cable slot	Security-cable slot (wedge-shaped)

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module specifications of your XPS 17 9710.


 **NOTE:** The wireless module is integrated on the system board.

Table 8. Wireless module specifications

Description	Values
Model number	Killer 1650s
Transfer rate	Up to 2400 Mbps

Table 8. Wireless module specifications (continued)

Description	Values
Frequency bands supported	2.40 GHz/5 GHz
Wireless standards	<ul style="list-style-type: none">• Wi-Fi 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
Bluetooth	Bluetooth 5.1

Audio

The following table lists the audio specifications of your XPS 17 9710.

Table 9. Audio specifications

Description	Values
Audio controller	Realtek ALC711-CG
Stereo conversion	Supported
Internal audio interface	SoundWire
External audio interface	Universal audio jack
Number of speakers	2-way speaker
Internal-speaker amplifier	Realtek ALC1309D
External volume controls	Supported
Speaker output:	
Average speaker output	2 W
Peak speaker output	2.50 W
Subwoofer output	Supported
Microphone	Digital-array microphones

Storage

This section lists the storage options on your XPS 17 9710.

Your XPS 17 9710 supports one of the following storage options:

- One M.2 2230 solid-state drive (requires an extender, sold separately)
- One M.2 2280 solid-state drive
- Two M.2 2280 solid-state drives
- One M.2 2230 solid-state drive (requires an extender, sold separately) and one M.2 2280 solid-state drive


Table 10. Storage specifications

Storage type	Interface type	Capacity
M.2 2230 solid-state drive	PCIe NVMe Gen3 x4, up to 32 Gbps	Up to 256 GB
M.2 2280 solid-state drive	PCIe NVMe Gen3 x4, up to 32 Gbps	Up to 1 TB
M.2 2280 solid-state drive	PCIe NVMe Gen4 x4, up to 64 Gbps	Up to 4 TB

Media-card reader

The following table lists the media cards supported by your XPS 17 9710.


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 17 9710.

Table 12. Keyboard specifications

Description	Values
Keyboard type	Standard 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.</p>

Camera

The following table lists the camera specifications of your XPS 17 9710.

Table 13. Camera specifications

Description		Values
Number of cameras		One
Camera type		HD RGB IR camera
Camera location		Front
Camera sensor type		CMOS-sensor technology
Camera resolution:		
	Still image	0.92 megapixel
	Video	1280 x 720 (HD) at 30 fps
Infrared camera resolution:		
	Still image	0.20 megapixel
	Video	576 x 360 (VGA) at 15 fps
Diagonal viewing angle:		
	Camera	78.5 degrees
	Infrared camera	78.5 degrees

Touchpad

The following table lists the touchpad specifications of your XPS 17 9710.


Table 14. Touchpad specifications

Description		Values
Touchpad resolution:		
	Horizontal	4655
	Vertical	2731
Touchpad dimensions:		
	Horizontal	150 mm (5.91 in.)
	Vertical	89 mm (3.50 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 17 9710.

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)		<ul style="list-style-type: none">20 V/4.50 A15 V/3 A9 V/3 A5 V/3 A	<ul style="list-style-type: none">20 V/6.5 A5 V/1 A
Rated output voltage		<ul style="list-style-type: none">20 VDC15 VDC9 VDC5 VDC	<ul style="list-style-type: none">20 VDC5 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 17 9710.

Table 16. Battery specifications

Description		Option one	Option two
Battery type		3-cell (56 Wh) "smart" lithium-ion	6-cell (97 Wh) "smart" lithium-ion
Battery voltage		11.40 VDC	11.40 VDC
Battery weight (maximum)		0.27 kg (0.60 lb)	0.385 kg (0.85 lb)
Battery dimensions:			
	Height	8.45 mm (0.33 in.)	8.45 mm (0.33 in.)
	Width	69.70 mm (2.74 in.)	69.70 mm (2.74 in.)
	Depth	330.65 mm (13.02 in.)	330.65 mm (13.02 in.)
Temperature range:			

Table 16. Battery specifications (continued)

Description		Option one	Option two
	Operating	<ul style="list-style-type: none"> Charge: 0°C to 50°C (32°F to 122°F) Discharge: 0°C to 60°C (32°F to 140°F) 	<ul style="list-style-type: none"> Charge: 0°C to 50°C (32°F to 122°F) Discharge: 0°C to 60°C (32°F to 140°F)
	Storage	–20°C to 60°C (–4°F to 140°F)	–20°C to 60°C (–4°F to 140°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 .		<ul style="list-style-type: none"> Standard charge, 0°C to 50°C (32°F to 122°F): 4 hours ExpressCharge, 0°C to 15°C (32°F to 59°F): 4 hours ExpressCharge, 16°C to 45°C (60.80°F to 113°F): 2 hours ExpressCharge, 46°C to 50°C (114.80°F to 122°F): 3 hours 	<ul style="list-style-type: none"> Standard charge, 0°C to 50°C (32°F to 122°F): 4 hours ExpressCharge, 0°C to 15°C (32°F to 59°F): 4 hours ExpressCharge, 16°C to 45°C (60.80°F to 113°F): 2 hours ExpressCharge, 46°C to 50°C (114.80°F to 122°F): 3 hours
Coin-cell battery		Not supported	Not supported
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 XPS 17 9710.

Table 17. Display specifications

Description		Option one	Option two
Display type		Full High Definition (FHD+)	Ultra High Definition (UHD+)
Display-panel technology		Wide-Viewing Angle (WVA)	Wide-Viewing Angle (WVA)
Display-panel dimensions (active area):			
	Height	366.34 mm (14.42 in.)	366.34 mm (14.42 in.)
	Width	228.96 mm (9.01 in.)	228.96 mm (9.01 in.)
	Diagonal	432 mm (17 in.)	432 mm (17 in.)
Display-panel native resolution		1920 x 1200	3840 x 2400
Luminance (typical)		500 nits	500 nits
Megapixels		2.3	9.2
Color gamut		sRGB 100% (minimum)	Adobe 100% min; DCI-P3 99% typ, 95% min
Pixels Per Inch (PPI)		133	266

Table 17. Display specifications (continued)

Description	Option one	Option two
Contrast ratio (typical)	1650:1	1600:1
Response time (maximum)	35 ms	35 ms
Refresh rate	60 Hz	60 Hz
Horizontal view angle	+/- 85 degrees	+/- 85 degrees
Vertical view angle	+/- 85 degrees	+/- 85 degrees
Pixel pitch	0.1908 mm	0.0954 mm
Power consumption (maximum)	5.06 W	13.73 W
Anti-glare vs glossy finish	Anti-glare	Anti-reflective
Touch options	No	Yes

Fingerprint reader

The following table lists the fingerprint-reader specifications of your XPS 17 9710.

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 17 9710.

Table 19. GPU—Integrated

Controller	Memory size	Processor
Intel UHD Graphics	Shared system memory	11 th 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 17 9710.

Table 20. GPU—Discrete

Controller	Memory size	Memory type
NVIDIA GeForce RTX 3050	4 GB	GDDR6
NVIDIA GeForce RTX 3060 Max-Q	6 GB	GDDR6


Operating and storage environment

This table lists the operating and storage specifications of your XPS 17 9710.

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)
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 3,048 m (-49.87 ft to 10,000 ft)	-15.2 m to 10,668 m (-49.87 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.

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