

XPS 8960

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.

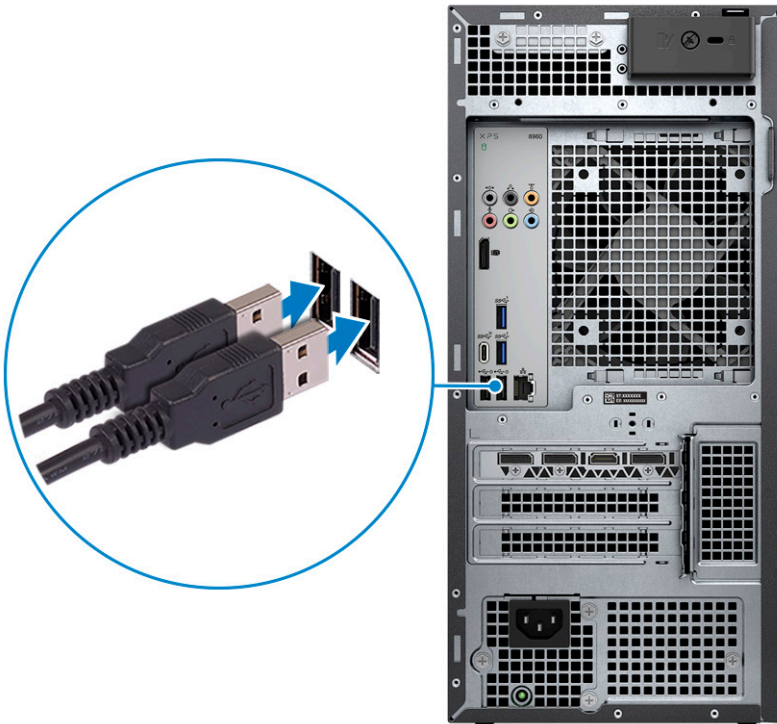
 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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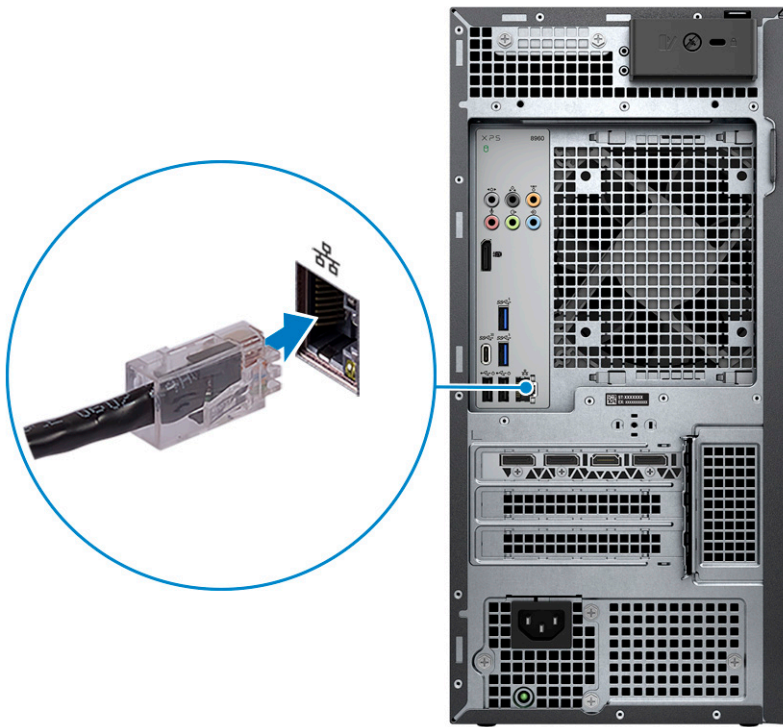
Set up your computer

NOTE: The images in this document may differ from your computer depending on the configuration you ordered.

1. Connect the keyboard and mouse to the USB ports on the computer. If you have a wireless keyboard and mouse, see the documentation that shipped with the wireless keyboard and mouse for instructions.



2. Connect to your network using an Ethernet cable. Alternatively, connect to an available wireless network when setting up the operating system.



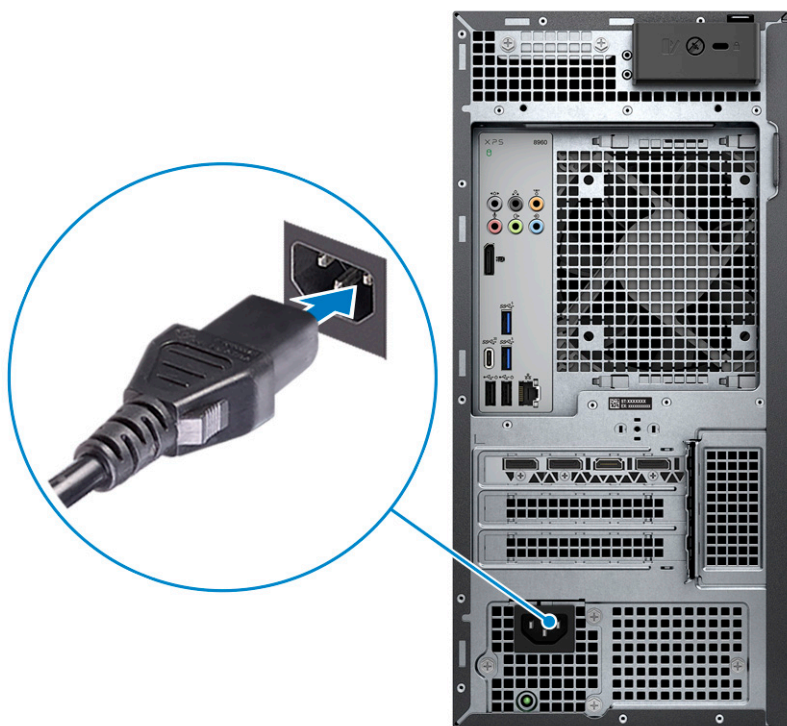
3. Connect the display. For more information about setting up the display, see the documentation that is shipped with your display.



- NOTE:** The DisplayPort on the back panel of your computer is covered. Connect the display to the discrete graphics card of your computer.
- NOTE:** If you have two graphics cards, the card installed in PCI-Express X16 (graphics slot 1) is the primary graphics card.

4. Connect the power cable to the computer and then connect it to the wall outlet.

CAUTION: If your computer is configured with a 1000 W Power Supply-Unit (PSU), Dell recommends that you connect the power cable from the PSU to a 16 A Power Distribution Unit (PDU) before connecting the PDU to a power outlet.




5. Press the power button at the front of the computer to turn it on. If required, press the power button on the display to turn it on.








6. 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.

7. Locate and use Dell apps from the Windows Start menu—Recommended.

Table 1. Locate Dell apps

Resources	Description
	<p>MyDell</p> <p>MyDell is a software application that offers you a single streamlined engagement platform including account access, device information, and hardware settings. This software delivers intelligent features that automatically fine-tune your computer for the best possible audio, power, and performance. Get the most out of your Dell device with intelligent, personalized technology from MyDell. Following are the key features of MyDell:</p> <ul style="list-style-type: none"> • Application • Audio • Power • Color and Display • Presence detection <p>For more information about how to use MyDell, see product guides at www.dell.com/support.</p>
	<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/support/home/product-support/product/dell-supportassist-pcs-tablets/docs.</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 about using Dell Update, see the product guides and third-party license documents 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 about using Dell Digital Delivery, search in the Knowledge Base Resource at www.dell.com/support.</p>

Views of XPS 8960

Front



1. Power button

Press to turn on the computer if it is turned off, in sleep state, or in hibernate state.

Press to put the computer in sleep state if it is turned on.

Press and hold to force shut-down the computer.

2. 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)

3. Headset port

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

4. USB 3.2 Gen 1 ports (2)

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

5. USB 3.2 Gen 1 port with PowerShare

Connect devices such as external storage devices and printers.

Provides data transfer speeds up to 5 Gbps. PowerShare enables you to charge connected USB devices.

NOTE: Deep Sleep is enabled by default. Disable Deep Sleep at the BIOS setup to enable PowerShare feature on your computer.

NOTE: PowerShare enables you to charge your USB devices even when your computer is turned off.

6. USB 3.2 Gen 2 Type-C port with PowerShare

Connect devices such as external storage devices and printers.

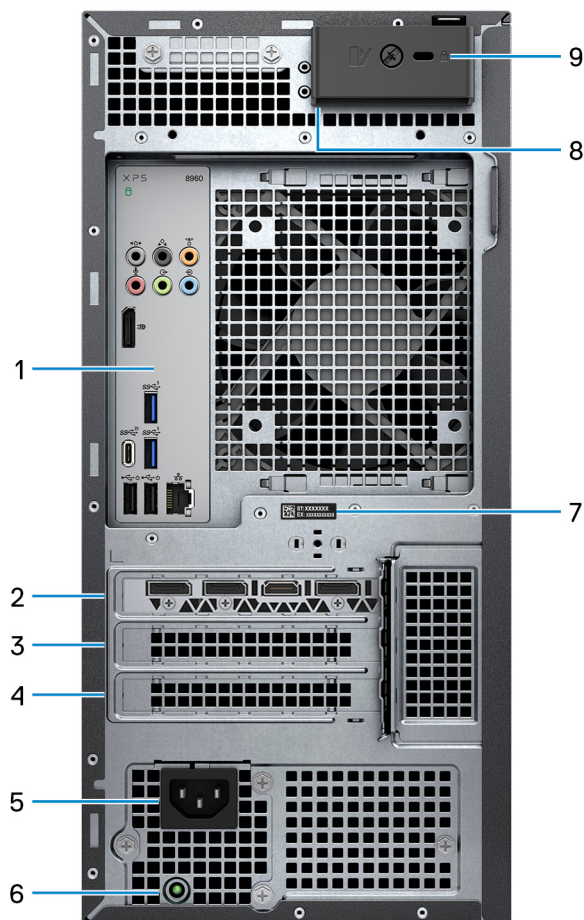
Provides data transfer speeds up to 10 Gbps. Supports Power Delivery that enables two-way power supply between devices. Provides up to 15 W power output that enables faster charging. PowerShare enables you to charge connected USB devices.

NOTE: Deep Sleep is enabled by default. Disable Deep Sleep at the BIOS setup to enable PowerShare feature on your computer.

NOTE: PowerShare enables you to charge your USB devices even when your computer is turned off.

NOTE: This port does not support video/audio streaming.

Back




1. **Back panel**


Connect USB, audio, video, and other devices.

2. **PCI-Express X16 (graphics slot 1)**

Connect a PCI-Express card such as graphics, audio, or network card to enhance the capabilities of your computer.


For optimal graphics performance, use a PCI-Express X16 slot for connecting the graphics card.

 **NOTE:** The PCI-Express X16 slot works at X8 lanes only.

 **NOTE:** If you have two graphics cards, the card installed in PCI-Express X16 (graphics slot 1) is the primary graphics card.


3. **PCI-Express X4 slot**

Connect a PCI-Express card such as graphics, audio, or network card to enhance the capabilities of your computer.

 **NOTE:** The PCI-Express X4 slot 3 works at X2 lanes only.

4. **PCI-Express X4 slot**

Connect a PCI-Express card such as graphics, audio, or network card to enhance the capabilities of your computer.

 **NOTE:** The PCI-Express X4 slot 3 works at X2 lanes only.

5. **Power port**

Connect a power cable to provide power to your computer.

6. **Power-supply diagnostics light**

Indicates the power-supply state.

7. **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.

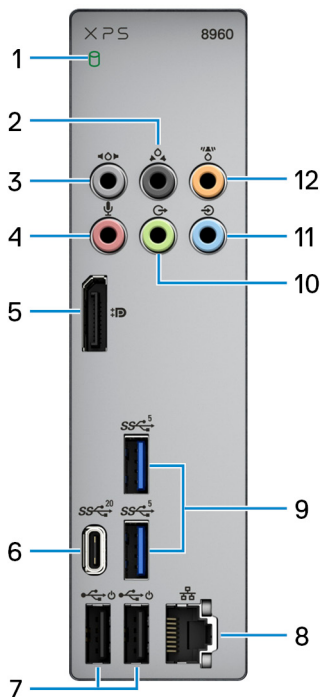
8. **Padlock rings**

Attach a standard padlock to prevent unauthorized access to the interior of your computer.

9. **Security-cable slot (for Kensington locks)**

Connect a security cable to prevent unauthorized movement of your computer.

Back panel



1. Hard-drive activity light

The activity light turns on when the computer reads from or writes to the hard drive.

2. Rear L/R surround port

Connect audio-output devices such as speakers and amplifiers. In a 5.1 or 7.1 speaker channel setup, connect the rear-left and rear-right speakers.

3. Side L/R surround port

Connect audio-output devices such as speakers and amplifiers. In a 7.1 speaker channel setup, connect the side-left and side-right speakers.

4. Microphone port

Connect an external microphone to provide sound input.

5. Dual-Mode DisplayPort 1.4

Connect an external display or a projector.

NOTE: Besides a DisplayPort connector, this port can also provide display output to a DVI or HDMI connector with a DisplayPort 1.4 adapter (sold separately).

NOTE: This port is only available on computers that are shipped with an Intel UHD Graphics integrated graphics processor.

NOTE: If your computer did not ship with a discrete graphics card, then this is the only port to connect to a monitor.

6. USB 3.2 Gen 2x2 Type-C port


Connect devices such as external storage devices and printers. Provides data transfer speeds up to 20 Gbps.


NOTE: This port does not support video/audio streaming.

7. USB 2.0 ports with Smart Power On (2)

Connect devices such as external storage devices and printers. Provides data transfer speeds up to 480 Mbps.

NOTE: Deep Sleep is enabled by default. Disable Deep Sleep at the BIOS setup to enable Smart Power On feature on your computer.

 **NOTE:** Smart Power On is the ability to wake a system from S4 and S5 sleep states with a move of a mouse or press of a key on the keyboard.

 **NOTE:** This port does not support video/audio streaming or power delivery.

8. Network port (with lights)

Connect an Ethernet (RJ45) cable from a router or a broadband modem for network or Internet access.

The two lights next to the connector indicate the connectivity status and network activity.

9. USB 3.2 Gen 1 ports (2)

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

10. Front L/R surround line-out port


Connect audio-output devices such as speakers and amplifiers. In a 2.1 speaker channel setup, connect the left and right speakers. In a 5.1 or a 7.1 speaker channel setup, connect the front-left and front-right speakers.

11. Line-in port

Connect recording or playback devices such as a microphone or CD player.

12. Center/subwoofer LFE surround port

Connect the center speaker or the subwoofer.


 **NOTE:** For more information about the speaker setup, see the documentation that shipped with the speakers.

Specifications of XPS 8960

Dimensions and weight

The following table lists the height, width, depth, and weight of your XPS 8960.

Table 2. Dimensions and weight

Description		Values
Height:		
	Front height	372.90 mm (14.68 in.)
	Rear height	372.90 mm (14.68 in.)
Width		173 mm (6.81 in.)
Depth		426.90 mm (16.81 in.)
Weight (maximum)		13.34 kg (29.41 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 that are supported for your XPS 8960.

Table 3. Processor

Description		Option one	Option two	Option three	Option four
Processor type		13th Gen Intel Core i5-13600K	13th Gen Intel Core i5-13600KF	13th Gen Intel Core i7-13700K	13th Gen Intel Core i7-13700KF
Processor wattage		125 W	125 W	125 W	125 W
Processor total core count		14	14	16	16
Performance-cores		6	6	8	8
Efficient-cores		8	8	8	8
Processor total thread counts		20	20	24	24
<i>i</i> NOTE: Intel Hyper-Threading Technology is available only on Performance-cores.					
Processor speed		3.50 GHz to 5.10 GHz	3.50 GHz to 5.10 GHz	3.40 GHz to 5.40 GHz	3.40 GHz to 5.40 GHz
Performance-cores frequency					
	Processor base frequency	3.50 GHz	3.50 GHz	3.40 GHz	3.40 GHz
	Maximum turbo frequency	5.10 GHz	5.10 GHz	5.40 GHz	5.40 GHz
Efficient-cores frequency					
	Processor base frequency	3.50 GHz	3.50 GHz	3.40 GHz	3.40 GHz
	Maximum turbo frequency	3.90 GHz	3.90 GHz	4.20 GHz	4.20 GHz
Processor cache		24 MB	24 MB	30 MB	30 MB
Integrated graphics		Intel UHD Graphics 770	Not applicable	Intel UHD Graphics 770	Not applicable

Table 4. Processor



Description		Option five	Option six	Option seven	Option eight
Processor type		13th Gen Intel Core i9-13900K	13th Gen Intel Core i9-13900KF	14th Gen Intel Core i5-14600	14th Gen Intel Core i7-14700
Processor wattage		125 W	125 W	65 W	65 W
Processor total core count		24	24	14	20
Performance-cores		8	8	6	8
Efficient-cores		16	16	8	12
Processor total thread counts		32	32	20	28
 NOTE: Intel® Hyper-Threading Technology is only available on Performance-cores.					
Processor speed		3 GHz to 5.80 GHz	3 GHz to 5.80 GHz	2.70 GHz to 5.20 GHz	2.10 GHz to 5.40 GHz
Performance-cores frequency					
	Processor base frequency	3 GHz	3 GHz	2.70 Ghz	2.10 Ghz
	Maximum turbo frequency	5.80 GHz	5.80 GHz	5.20 Ghz	5.40Ghz
Efficient-cores frequency					
	Processor base frequency	3 GHz	3 GHz	2 Ghz	1.50 Ghz
	Maximum turbo frequency	4.30 GHz	4.30 GHz	3.90 Ghz	4.20 Ghz
Processor cache		36 MB	36 MB	24 MB	33 MB
Integrated graphics		Intel UHD Graphics 770	Not applicable	Intel UHD Graphics 770	Intel UHD Graphics 770

Table 5. Processor

Description		Option nine	Option ten	Option eleven
Processor type		14th Gen Intel Core i9-14900	14th Gen Intel Core i7-14700K	14th Gen Intel Core i9-14900K
Processor wattage		65 W	125 W	125 W
Processor total core count		24	20	20
Performance-cores		8	8	8
Efficient-cores		16	12	12
Processor total thread counts		32	28	28
 NOTE: Intel® Hyper-Threading Technology is only available on Performance-cores.				
Processor speed		2 GHz to 5.80 GHz	3.40 GHz to 5.60 GHz	3.20 GHz to 6 GHz
Performance-cores frequency				
	Processor base frequency	2 Ghz	3.40 Ghz	3.20 Ghz
	Maximum turbo frequency	5.80 Ghz	5.60 Ghz	6 Ghz
Efficient-cores frequency				
	Processor base frequency	1.50 Ghz	2.50 Ghz	2.40 Ghz
	Maximum turbo frequency	4.30 Ghz	4.30 Ghz	4.40 Ghz
Processor cache		36 MB	33 MB	36 MB
Integrated graphics		Intel UHD Graphics 770	Intel UHD Graphics 770	Intel UHD Graphics 770

Chipset

The following table lists the details of the chipset that is supported for your XPS 8960.

Table 6. Chipset


Description	Values
Chipset	Intel Z690
Processor	<ul style="list-style-type: none"> 13th Generation Intel Core i5/i7/i9 13th Generation Intel Core i5KF/i7KF/i9KF  NOTE: Basic CPU overclocking is supported on XPS 8960 shipped with K-Series processors through the Performance menu in the system BIOS.
DRAM bus width	128-bit
Flash EPROM	32 MB

Table 6. Chipset (continued)

Description	Values
PCIe bus	Up to Gen5

Operating system


Your XPS 8960 supports the following operating systems:

- Windows 11 Pro, 64-bit
- Windows 11 Home, 64-bit

Memory

The following table lists the memory specifications of your XPS 8960.

Table 7. Memory specifications

Description	Values
Memory slots	Two
Memory type	DDR5
Memory speed	<ul style="list-style-type: none">• 4800 MT/s• Up to 5600 MT/s
Maximum memory configuration	64 GB
Minimum memory configuration	8 GB
Memory size per slot	8 GB, 16 GB, and 32 GB
Memory configurations supported	<ul style="list-style-type: none">• 8 GB, 1 x 8 GB, DDR5, 4800 MT/s• 16 GB, 1 x 16 GB, DDR5, 4800 MT/s• 16 GB, 2 x 8 GB, DDR5, 4800 MT/s, dual-channel• 32 GB, 1 x 32 GB, DDR5, 4800 MT/s• 32 GB, 2 x 16 GB, DDR5, 4800 MT/s, dual-channel• 64 GB, 2 x 32 GB, DDR5, 4800 MT/s, dual-channel• 8 GB, 1 x 8 GB, DDR5, 5600 MT/s• 16 GB, 1 x 16 GB, DDR5, 5600 MT/s• 16 GB, 2 x 8 GB, DDR5, 5600 MT/s, dual-channel• 32 GB, 2 x 16 GB, DDR5, 5600 MT/s, dual-channel• 64 GB, 2 x 32 GB, DDR5, 5600 MT/s, dual-channel <p> NOTE: 5600 MT/s memory is only available on computers with 14th generation Intel processors.</p>

Ports and connectors

The following table lists the external and internal ports available on your XPS 8960.

Table 8. Ports and connectors

Description	Values
External:	

Table 8. Ports and connectors (continued)

Description	Values
Network	One RJ-45 port
USB	<p>Front ports</p> <ul style="list-style-type: none"> Two USB 3.2 Gen 1 ports One USB 3.2 Gen 1 port with PowerShare One USB 3.2 Gen 2 Type-C port with PowerShare <p>NOTE: This port does not support video/audio streaming.</p> <p>Rear ports</p> <ul style="list-style-type: none"> Two USB 2.0 ports with Smart Power On Two USB 3.2 Gen 1 ports One USB 3.2 Gen 2x2 Type-C port <p>NOTE: This port does not support video/audio streaming.</p>
Audio	<ul style="list-style-type: none"> One headset port - 3.5 mm Universal audio jack One audio input/microphone port - 3.5 mm, 6 stack One line-in port - 3.5 mm, 6 stack One front L/R surround line-out port - 3.5 mm, 6 stack One center/subwoofer LFE surround port - 3.5 mm, 6 stack One rear L/R surround port - 3.5 mm, 6 stack One side L/R surround port - 3.5 mm, 6 stack
Video	One Dual-Mode DisplayPort 1.4
Media-card reader	One SD-card slot
Power port	One AC power-supply port
Security	<ul style="list-style-type: none"> One security-cable slot (for Kensington locks) One padlock slot
Internal:	
PCIe expansion card slots	<ul style="list-style-type: none"> One PCIe x16 mechanical/x16 electrical Gen5 slot Two PCIe Gen3 x4 slots
mSATA	Not supported
SATA	<ul style="list-style-type: none"> Two SATA slots for 3.5-inch HDD Three SATA slots for 2.5-inch HDD <p>NOTE: 3.5-inch hard drive can be changed to two 2.5-inch hard drives by purchasing the conversion kit from Dell sales agent.</p>
M.2	<ul style="list-style-type: none"> One M.2 2230 slot for WiFi and Bluetooth combo card Two M.2 2230/2280 card slots for solid-state drive <p>NOTE: To learn more about the features of different types of M.2 cards, see the Knowledge Base resource at https://www.dell.com/support.</p>

Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your XPS 8960.


Table 9. Ethernet specifications

Description	Values
Model number	Killer E3100G Ethernet controller integrated on the system board
Transfer rate	10/100/1000/2500 Mbps

Wireless module

The following table lists the Wireless Local Area Network (WLAN) modules that are supported on your XPS 8960.

Table 10. Wireless module specifications

Description	Option one	Option two
Model number	Intel Killer AX1675i	Intel Killer AX1650i
Transfer rate	Up to 2400 Mbps	Up to 2400 Mbps
Frequency bands supported	2.4 GHz/5 GHz/6 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)• Wi-Fi 6E (WiFi 802.11ax)	<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
Bluetooth wireless card	Bluetooth 5.3	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 XPS 8960.

Table 11. Audio specifications

Description	Values
Audio type	Integrated 7.1 channel audio
Audio controller	Realtek ALC1220
Internal audio interface	High definition audio interface
External audio interface	<ul style="list-style-type: none">• 7.1 audio 6-conductor stack of retaskable audio ports• Rear L/R surround port - 3.5 mm, 6 stack

Table 11. Audio specifications (continued)

Description	Values
	<ul style="list-style-type: none"> • Side L/R surround port - 3.5 mm, 6 stack • Front L/R surround line-out port - 3.5 mm, 6 stack • Center/subwoofer LFE surround port - 3.5 mm, 6 stack • Microphone port - 3.5 mm, 6 stack • Line-in port - 3.5 mm, 6 stack • Headset port - 3.5 mm Universal audio jack

Storage

This section lists the storage options on your XPS 8960.

Your XPS 8960 supports one of the following storage configurations:

- Up to two M.2 2230 or M.2 2280 PCIe NVMe solid-state drives
- Up to two M.2 2230 or M.2 2280 PCIe NVMe solid-state drives + two 3.5-inch hard drives

The primary drive of your XPS 8960 varies with the storage configuration. For computers:

- With a M.2 drive, the M.2 drive is the primary drive.
- With a M.2 drive and two 3.5-inch hard drives, the M.2 drive is the primary drive.

Table 12. Storage specifications

Storage type	Interface type	Capacity
One M.2 2230 solid-state drive	PCIe Gen4 x4 NVMe, up to 64 Gbps	Up to 512 GB
One M.2 2280 solid-state drive	PCIe Gen4 x4 NVMe, up to 64 Gbps	Up to 4 TB
One 3.5-inch hard drive	SATA AHCI, up to 6 Gbps	Up to 2 TB

Media-card reader

The following table lists the media cards that are supported on your XPS 8960.

Table 13. 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 that is installed on your computer.	

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your XPS 8960.

Table 14. GPU—Integrated

Controller	External display support	Memory size	Processor
Intel UHD Graphics	One Dual-Mode DisplayPort 1.4	Shared system memory	13 th Generation Intel Core i5/i7/i9

Video

Table 15. Discrete graphics specifications

Discrete graphics							
Controller	Number of cards	External display support	Memory size	Memory type	PCIe version	Power consumption	Recommended PSU
AMD Radeon RX 6500 XT	1	One DisplayPort 1.4 port, one HDMI 2.1 port	4 GB	GDDR6	4	100 W	>= 400 W
AMD Radeon RX 6600 XT	1	Three DisplayPort 1.4 ports, one HDMI 2.1 port	8 GB	GDDR6	4	162.50 W	>= 500 W
AMD Radeon RX 6700 XT	1	Three DisplayPort 1.4 ports, one HDMI 2.1 port	12 GB	GDDR6	4	230 W	>= 650 W
AMD Radeon RX 6800 XT	1	Three DisplayPort 1.4 ports, one HDMI 2.1 port	16 GB	GDDR6	4	300 W	>= 750 W
AMD Radeon RX 6900 XT	1	Three DisplayPort 1.4 ports, one HDMI 2.1 port	16 GB	GDDR6	4	300 W	>= 750 W
NVIDIA GeForce RTX 3050	1	Three DisplayPort 1.4 ports, one HDMI 2.1 port	8 GB	GDDR6	4	120 W	>= 500 W
NVIDIA GeForce RTX 3060	1	Three DisplayPort 1.4 ports, one HDMI 2.1 port	12 GB	GDDR6	4	170 W	>= 500 W

Table 15. Discrete graphics specifications (continued)

Discrete graphics							
Controller	Number of cards	External display support	Memory size	Memory type	PCIe version	Power consumption	Recommended PSU
NVIDIA GeForce RTX 3060 Ti	1	Three DisplayPort 1.4 ports, one HDMI 2.1 port	8 GB	GDDR6	4	200 W	>= 650 W
NVIDIA GeForce RTX 3070	1	Three DisplayPort 1.4 ports, one HDMI 2.1 port	8 GB	GDDR6	4	220 W	>= 650 W
NVIDIA GeForce RTX 3070 Ti	1	Three DisplayPort 1.4 ports, one HDMI 2.1 port	8 GB	GDDR6X	4	290 W	>= 750 W
NVIDIA GeForce RTX 3080	1	Three DisplayPort 1.4 ports, one HDMI 2.1 port	10 GB	GDDR6X	4	320 W	>= 750 W
NVIDIA GeForce RTX 3080 Ti	1	Three DisplayPort 1.4 ports, one HDMI 2.1 port	12 GB	GDDR6X	4	350 W	>= 750 W
NVIDIA GeForce RTX 3090	1	Three DisplayPort 1.4 ports, one HDMI 2.1 port	24 GB	GDDR6X	4	350 W	>= 750 W
NVIDIA GeForce RTX 3090 Ti	1	Three DisplayPort 1.4 ports, one HDMI 2.1 port	24 GB	GDDR6X	4	450 W	>= 1000 W
NVIDIA GeForce RTX 4070 Ti	1	Three DisplayPort 1.4 ports, one HDMI 2.1 port	12 GB	GDDR6X	4	285 W	>= 700 W
NVIDIA GeForce RTX 4080	1	Three DisplayPort 1.4 ports, one HDMI 2.1 port	16 GB	GDDR6X	4	320 W	>= 750 W

Table 15. Discrete graphics specifications (continued)

Discrete graphics							
Controller	Number of cards	External display support	Memory size	Memory type	PCIe version	Power consumption	Recommended PSU
NVIDIA GeForce RTX 4090	1	Three DisplayPort 1.4 ports, one HDMI 2.1 port	24 GB	GDDR6X	4	450 W	>= 850 W

Video port resolution

The following table lists the video port resolution for your XPS 8960.

Table 16. Video port resolution

Graphics card	Video ports	Maximum supported resolution
AMD Radeon RX 6500 XT	<ul style="list-style-type: none"> One DisplayPort 1.4a¹ One HDMI 2.1 port 	<ul style="list-style-type: none"> DisplayPort - 8K at 120 Hz (DSC) HDMI - 8K at 60 Hz (DSC)
AMD Radeon RX 6600 XT	<ul style="list-style-type: none"> Three DisplayPort 1.4a¹ One HDMI 2.1 port 	<ul style="list-style-type: none"> DisplayPort - 8K at 120 Hz (DSC) HDMI - 8K at 60 Hz (DSC)
AMD Radeon RX 6700 XT	<ul style="list-style-type: none"> Three DisplayPort 1.4a¹ One HDMI 2.1 port 	<ul style="list-style-type: none"> DisplayPort - 8K at 120 Hz (DSC) HDMI - 8K at 60 Hz (DSC)
AMD Radeon RX 6800 XT	<ul style="list-style-type: none"> Three DisplayPort 1.4a¹ One HDMI 2.1 port 	<ul style="list-style-type: none"> DisplayPort - 8K at 120 Hz (DSC) HDMI - 8K at 60 Hz (DSC)
AMD Radeon RX 6900 XT	<ul style="list-style-type: none"> Three DisplayPort 1.4a¹ One HDMI 2.1 port 	<ul style="list-style-type: none"> DisplayPort - 8K at 120 Hz (DSC) HDMI - 8K at 60 Hz (DSC)
NVIDIA GeForce RTX 3050	<ul style="list-style-type: none"> Three DisplayPort 1.4a¹ One HDMI 2.1 port 	<ul style="list-style-type: none"> Maximum pixel clock²: Up to 2660 megapixels per second Maximum raw bandwidth³: 32.40 Gbps <p>DisplayPort:</p> <ul style="list-style-type: none"> 7680 x 4320 at 120 Hz⁴ 7680 x 4320 at 60 Hz⁵ 7680 x 4320 at 60 Hz⁶ 5120 x 3200 at 60 Hz⁷ 5120 x 2880 at 60 Hz⁷ <p>HDMI:</p> <ul style="list-style-type: none"> 7680 x 4320 at 60 Hz 3840 x 2160 at 120 Hz 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 3060	<ul style="list-style-type: none"> Three DisplayPort 1.4a¹ One HDMI 2.1 port 	<p>DisplayPort:</p> <ul style="list-style-type: none"> 7680 x 4320 at 120 Hz⁴ 7680 x 4320 at 60 Hz⁵ 7680 x 4320 at 60 Hz⁶ 5120 x 3200 at 60 Hz⁷ 5120 x 2880 at 60 Hz⁷ <p>HDMI:</p> <ul style="list-style-type: none"> 7680 x 4320 at 60 Hz

Table 16. Video port resolution (continued)

Graphics card	Video ports	Maximum supported resolution
		<ul style="list-style-type: none"> • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 3060 Ti	<ul style="list-style-type: none"> • Three DisplayPort 1.4a¹ • One HDMI 2.1 port 	DisplayPort: <ul style="list-style-type: none"> • 7680 x 4320 at 120 Hz⁴ • 7680 x 4320 at 60 Hz⁵ • 7680 x 4320 at 60 Hz⁶ • 5120 x 3200 at 60 Hz⁷ • 5120 x 2880 at 60 Hz⁷ HDMI: <ul style="list-style-type: none"> • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 3070	<ul style="list-style-type: none"> • Three DisplayPort 1.4a¹ • One HDMI 2.1 port 	DisplayPort: <ul style="list-style-type: none"> • 7680 x 4320 at 120 Hz⁴ • 7680 x 4320 at 60 Hz⁵ • 7680 x 4320 at 60 Hz⁶ • 5120 x 3200 at 60 Hz⁷ • 5120 x 2880 at 60 Hz⁷ HDMI: <ul style="list-style-type: none"> • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 3070 Ti	<ul style="list-style-type: none"> • Three DisplayPort 1.4a¹ • One HDMI 2.1 port 	DisplayPort: <ul style="list-style-type: none"> • 7680 x 4320 at 120 Hz⁴ • 7680 x 4320 at 60 Hz⁵ • 7680 x 4320 at 60 Hz⁶ • 5120 x 3200 at 60 Hz⁷ • 5120 x 2880 at 60 Hz⁷ HDMI: <ul style="list-style-type: none"> • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 3080	<ul style="list-style-type: none"> • Three DisplayPort 1.4a¹ • One HDMI 2.1 port 	DisplayPort: <ul style="list-style-type: none"> • 7680 x 4320 at 120 Hz⁴ • 7680 x 4320 at 60 Hz⁵ • 7680 x 4320 at 60 Hz⁶ • 5120 x 3200 at 60 Hz⁷ • 5120 x 2880 at 60 Hz⁷ HDMI: <ul style="list-style-type: none"> • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 3080 Ti	<ul style="list-style-type: none"> • Three DisplayPort 1.4a¹ • One HDMI 2.1 port 	DisplayPort: <ul style="list-style-type: none"> • 7680 x 4320 at 120 Hz⁴ • 7680 x 4320 at 60 Hz⁵ • 7680 x 4320 at 60 Hz⁶ • 5120 x 3200 at 60 Hz⁷ • 5120 x 2880 at 60 Hz⁷ HDMI:

Table 16. Video port resolution (continued)

Graphics card	Video ports	Maximum supported resolution
		<ul style="list-style-type: none"> • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 3090	<ul style="list-style-type: none"> • Three DisplayPort 1.4a¹ • One HDMI 2.1 port 	DisplayPort: <ul style="list-style-type: none"> • 7680 x 4320 at 120 Hz⁴ • 7680 x 4320 at 60 Hz⁵ • 7680 x 4320 at 60 Hz⁶ • 5120 x 3200 at 60 Hz⁷ • 5120 x 2880 at 60 Hz⁷ HDMI: <ul style="list-style-type: none"> • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 3090 Ti	<ul style="list-style-type: none"> • Three DisplayPort 1.4a¹ • One HDMI 2.1 port 	DisplayPort: <ul style="list-style-type: none"> • 7680 x 4320 at 120 Hz⁴ • 7680 x 4320 at 60 Hz⁵ • 7680 x 4320 at 60 Hz⁶ • 5120 x 3200 at 60 Hz⁷ • 5120 x 2880 at 60 Hz⁷ HDMI: <ul style="list-style-type: none"> • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 4070 Ti	<ul style="list-style-type: none"> • Three DisplayPort 1.4a¹ • One HDMI 2.1 port 	DisplayPort: <ul style="list-style-type: none"> • 7680 x 4320 at 120 Hz⁴ • 7680 x 4320 at 60 Hz⁵ • 7680 x 4320 at 60 Hz⁶ • 5120 x 3200 at 60 Hz⁷ • 5120 x 2880 at 60 Hz⁷ HDMI: <ul style="list-style-type: none"> • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 4080	<ul style="list-style-type: none"> • Three DisplayPort 1.4a¹ • One HDMI 2.1 port 	DisplayPort: <ul style="list-style-type: none"> • 7680 x 4320 at 120 Hz⁴ • 7680 x 4320 at 60 Hz⁵ • 7680 x 4320 at 60 Hz⁶ • 5120 x 3200 at 60 Hz⁷ • 5120 x 2880 at 60 Hz⁷ HDMI: <ul style="list-style-type: none"> • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 4090	<ul style="list-style-type: none"> • Three DisplayPort 1.4a¹ • One HDMI 2.1 port 	DisplayPort: <ul style="list-style-type: none"> • 7680 x 4320 at 120 Hz⁴ • 7680 x 4320 at 60 Hz⁵ • 7680 x 4320 at 60 Hz⁶ • 5120 x 3200 at 60 Hz⁷

Table 16. Video port resolution (continued)

Graphics card	Video ports	Maximum supported resolution
		<ul style="list-style-type: none"> 5120 x 2880 at 60 Hz⁷ HDMI: <ul style="list-style-type: none"> 7680 x 4320 at 60 Hz 3840 x 2160 at 120 Hz 4096 x 2160 at 120 Hz
<p>¹ DisplayPort 1.2 certifies, DisplayPort 1.3/1.4 ready</p> <p>² Depending on GPU resources applied to the port</p> <p>³ Maximum raw bandwidth represents the raw bandwidth of four lanes of HBR3</p> <p>⁴ Requires two DisplayPort 1.4a links and DSC compression</p> <p>⁵ Requires either a single DisplayPort 1.4a link with DSC compression or two DP links with no compression</p> <p>⁶ Using DSC compression</p> <p>⁷ Uncompressed</p>		

Power ratings

The following table lists the power rating specifications of XPS 8960.

Table 17. Power ratings


Description	Option one	Option two	Option three
Type	460 W Bronze	750 W Platinum	1000 W Platinum
Input voltage	90 VAC-264 VAC	90 VAC-264 VAC	90 VAC-264 VAC
Input frequency	47 Hz-63 Hz	47 Hz-63 Hz	47 Hz-63 Hz
Input current (maximum)	7 A	10 A	13.6 A
Output current (continuous)	Operating: <ul style="list-style-type: none"> 12 VA - 18 A 12 VB - 18 A 12 VC - 18 A Standby: <ul style="list-style-type: none"> 12 VA - 1.5 A 12 VB - 3.3 A 12 VC - 0 A 	Operating: <ul style="list-style-type: none"> 12 VA - 36 A 12 VB - 27 A 12 VC - 36 A Standby: <ul style="list-style-type: none"> 12 VA - 1.5 A 12 VB - 5 A 12 VC - 0 A 	Operating: <ul style="list-style-type: none"> 12 VA - 36 A 12 VB - 27 A 12 VC - 36 A Standby: <ul style="list-style-type: none"> 12 VA - 1.5 A 12 VB - 5 A 12 VC - 0 A
Rated output voltage	<ul style="list-style-type: none"> 12 VA 12 VB 12 VC 	<ul style="list-style-type: none"> 12 VA 12 VB 12 VC 	<ul style="list-style-type: none"> 12 VA 12 VB 12 VC
Temperature range:			
Operating	5°C to 45°C (41°F to 113°F)	5°C to 45°C (41°F to 113°F)	5°C to 45°C (41°F to 113°F)
Storage	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)

Operating and storage environment

This table lists the operating and storage specifications of your XPS 8960.

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

Table 18. Computer environment

Description	Operating	Storage
Temperature range	10°C to 35°C (50°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	20% to 80% (non-condensing)	5% to 95% (non-condensing)
Vibration (maximum)*	0.26 GRMS	1.37 GRMS
Shock (maximum)	40 G†	105 G†
Altitude range	-15.20 m to 3048 m (-49.87 ft to 10000 ft)	-15.20 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 the user environment.



† Measured using a 2 ms half-sine pulse.

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 19. 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
Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals, and documents.	<p>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.</p> <p>For more information about how to find the Service Tag for your computer, see Locate the Service Tag on your computer.</p>
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 > 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.