# **XPS 8930**

Setup and Specifications



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### Notes, cautions, and warnings

(i) 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

1

1. Connect the keyboard and mouse.



2. Connect to your network using a cable, or connect to a wireless network.



**3.** Connect the display.



() NOTE: If you ordered your computer with a discrete graphics card, the HDMI and the display ports on the back panel of your computer are covered. Connect the display to the discrete graphics card.

**4.** Connect the power cable.



5. Press the power button.



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
	My Dell
Deell	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.
	SupportAssist
~	Pro-actively checks the health of your computer's hardware and software. The SupportAssist OS Recovery tool troubleshoots issues with the operating system. For more information, see the SupportAssist documentation at www.dell.com/support.
	<b>INOTE:</b> In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.
	Dell Update

### Table 1. Locate Dell apps (continued)

Resources	Description
	Updates your computer with critical fixes and latest device drivers as they become available. For more information about using Dell Update, see the knowledge base article SLN305843 at www.dell.com/support.
	<b>Dell Digital Delivery</b> Download software applications, which are purchased but not pre-installed on your computer. For more information about using Dell Digital Delivery, see the knowledge base article 153764 at www.dell.com/support.

### 8. Create recovery drive for Windows.

(i) NOTE: It is recommended to create a recovery drive to troubleshoot and fix problems that may occur with Windows.

For more information, see Create a USB recovery drive for Windows.

# **Create a USB recovery drive for Windows**

Create a recovery drive to troubleshoot and fix problems that may occur with Windows. An empty USB flash drive with a minimum capacity of 16 GB is required to create the recovery drive.

(i) NOTE: This process may take up to an hour to complete.

(i) NOTE: The following steps may vary depending on the version of Windows installed. Refer to the Microsoft support site for latest instructions.

- 1. Connect the USB flash drive to your computer.
- 2. In Windows search, type Recovery.
- In the search results, click Create a recovery drive. The User Account Control window is displayed.
- **4.** Click **Yes** to continue. The **Recovery Drive** window is displayed.
- 5. Select Back up system files to the recovery drive and click Next.
- Select the USB flash drive and click Next.
   A message appears, indicating that all data in the USB flash drive will be deleted.
- 7. Click Create.
- 8. Click Finish.

For more information about reinstalling Windows using the USB recovery drive, see the *Troubleshooting* section of your product's *Service Manual* at www.dell.com/support/manuals.

### **Topics:**

Reinstall Windows using a USB recovery drive

### **Reinstall Windows using a USB recovery drive**

- CAUTION: This process formats the hard drive and removes all data on your computer. Ensure that you back up data on your computer before beginning this task.
- **NOTE:** Before reinstalling Windows, ensure your computer has more than 2 GB of memory and more than 32 GB of storage space.

(i) NOTE: This process may take up to an hour to complete and your computer will restart during the recovery process.

- 1. Connect the USB recovery drive to your computer.
- 2. Restart your computer.
- Press F12 after the Dell logo is displayed on the screen to access the boot menu.
   A Preparing one-time boot menu message appears.
- After the boot menu loads, select the USB recovery device under UEFI BOOT. The system reboots and a screen to Choose the keyboard layout is displayed.
- 5. Choose your keyboard layout.
- 6. In the Choose an option screen, click Troubleshoot.
- 7. Click Recover from a drive.
- 8. Choose one of the following options:
  - Just remove my files to do a quick format.
  - Fully clean the drive to do a complete format.
- 9. Click Recover to start the recovery process.

# 3

# Setting up the Virtual Reality (VR) headset — optional

- 1. Download and run the setup tools for your VR headset at www.dell.com/VRsupport.
- 2. Connect the VR headset to the designated USB 3.1 Gen 1 ports on the back of your computer and HDMI port on the graphics card on your computer, when prompted.



(i) NOTE: If you connect the VR headset to the HDMI port on your computer, the performance will be optimum.

**3.** Follow the instructions on the screen to complete the setup.



### **Topics:**

- Front
- Back
- Back panel

## 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 for 4 seconds to force shut-down the computer.

() NOTE: You can customize the power-button behavior in Power Options. For more information, see *Me and My Dell* at www.dell.com/support/manuals.

### 2. SD-card slot

Reads from and writes to the SD card.

### 3. Headphone/speaker port

Connect headphones or speakers.

### 4. Microphone port

Connect an external microphone to provide sound input.

### 5. USB 3.1 Gen 1 (Type-C) port

Connect to external storage devices. Provides data transfer speeds up to 5 Gbps. (i) NOTE: This port does not support video/audio streaming.

### 6. USB 3.1 Gen 1 ports (3)

Connect peripheral such as storage devices and printers. provides data transfer speeds up to 5 Gbps.

### 7. Optical drive

Reads from and writes to CDs and DVDs.

### 8. Optical-drive eject button

Press to open the optical drive tray.

### Back



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### 1. Back panel

Connect USB, audio, video, and other devices.

### 2. PCI-Express X16 graphics slot

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

(i) NOTE: The port on the graphics card may vary depending on the graphics card ordered.

### 3. PCI-Express X1 slots (2)

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

### 4. PCI-Express X4 slot

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

### 5. 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.

### 6. Bottom power-supply cage release-latch

Release to rotate the power supply, once the side panel is released.

#### 7. Top power-supply cage release-latch

Release to rotate the power supply, once the side panel is released.

#### 8. Power-supply diagnostics button

Press to check the power-supply state.

#### 9. Power-supply light

Indicates the power-supply light.

Press and hold the power-supply diagnostics button. The power-supply light changes to green if the power-supply unit is working fine.

### 10. Power port

Connect a power cable to provide power to your computer.

### 11. Security-cable slot (for Kensington locks)

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

#### 12. Side panel release latch

Pull to release and open the side panel.

### **Back panel**



### 1. Network port - 10/100/1000 Mbps (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.

### 2. USB 2.0 ports (2)

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

### 3. DisplayPort

Connect an external display or a projector.

(i) **NOTE:** If you ordered your computer with a discrete graphics card, the DisplayPort on the back panel of your computer is covered. Connect the display to the discrete graphics card of your computer.

### 4. HDMI port

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

**NOTE:** If you ordered your computer with a discrete graphics card, the HDMI port on the back panel of your computer is covered. Connect the display to the discrete graphics card of your computer.

### 5. USB 3.1 Gen 1 ports (3)

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

### 6. USB 3.1 Gen 2 Type-C port

Connect peripherals such as external storage devices and printers. Provides data transfer speeds up to 10 Gbps.

### 7. USB 3.1 Gen 2 port

Connect peripherals, such as storage devices and printers. Provides data transfer speeds up to 10 Gbps.

### 8. 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.

### 9. Rear L/R surround port

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

### 10. Center/subwoofer LFE surround port

Connect the subwoofer.

(i) NOTE: For more information about the speaker setup, refer to the documentation that shipped with the speakers.

# **Specifications**

### **Topics:**

- Computer model
- System information
- Operating system
- Dimensions and weight
- Memory
- Intel Optane memory
- Ports and connectors
- Communications
- Audio
- Storage
- Video
- Power ratings
- Computer Environment

# **Computer model**

### Table 2. Computer model

Computer model	XPS 8930

## **System information**

### Table 3. System information

Processor	8 <sup>th</sup> generation Intel Core i3/i5/i5k//i7/i7k
Chipset	Intel Z370

### **Operating system**

### Table 4. Operating system

Operating systems supported	Windows 10 Pro 64-bit
	Windows 10 Home 64-bit

### **Dimensions and weight**

### Table 5. Dimensions and weight

Height	389 mm (15.32 in)
Width	180 mm (7.09 in)
Depth	356 mm (14.02 in)

### Table 5. Dimensions and weight (continued)

Weight (maximum)	10 kg (22 lbs) () NOTE: The weight of your computer varies depending on the configuration ordered and the manufacturing variability.

### Memory

### Table 6. Memory specifications

Slots		Four UDIMM slots
Туре		DDR4
Speed		<ul> <li>Up to 2400 MHz: i3 processor</li> <li>Up to 2666 MHz: i5/i7/i7k processors</li> </ul>
Config	urations supported:	
	Per memory module slot	4 GB, 8 GB, and 16 GB
	Total memory	8 GB, 16 GB, 24 GB, 32 GB, and 64 GB

The following table lists the available memory configuration matrix:

### Table 7. Memory configuration matrix

Configuration	Slot			
	DIMM1	DIMM2	DIMM3	DIMM4
8 GB	4 GB	4 GB		
8 GB	8 GB			
16 GB	8 GB	8 GB		
16 GB	16 GB			
24 GB	8 GB	8 GB	4 GB	4 GB
32 GB	8 GB	8 GB	8 GB	8 GB
64 GB	16 GB	16 GB	16 GB	16 GB

### **Intel Optane memory**

Intel Optane memory functions as a storage accelerator. It accelerates the computer and any type of SATA-based storage media such as hard drives and solid-state drives (SSDs).

(i) NOTE: Intel Optane memory is supported on computers that meet the following requirements:

- 7<sup>th</sup> generation or higher Intel Core i3/i5/i7 processor
- Windows 10 64-bit version or higher(Anniversary Update)
- Intel Rapid Storage Technology driver version 15.5.xxxx or higher

### Table 8. Intel Optane memory

Interface	PCle NVMe 3.0 x2
Connector	M.2
Configurations supported	16 GB

(i) **NOTE:** For more information about enabling or disabling the Intel Optane memory, see Enabling Intel Optane memory or Disabling Intel Optane memory.

# Ports and connectors

### Table 9. Ports and connectors

Back panel ports	
Network	One RJ45 port
USB	<ul> <li>Two USB 2.0 ports</li> <li>Three USB 3.1 Gen 1 ports</li> <li>One USB 3.1 Gen 2 Type-C port</li> <li>One USB 3.1 Gen 2 port</li> </ul>
Video/Audio	<ul> <li>One Surround Front Stereo port</li> <li>One Surround Rear Stereo port</li> <li>One Surround Center/Subwoofer port</li> <li>One HDMI 1.4 port for integrated graphics</li> <li>One DisplayPort for integrated graphics</li> </ul>

### Table 10. Ports and connectors

Front panel ports:	
Audio	<ul><li>One Stereo Headphone jack</li><li>One Microphone jack</li></ul>
USB	Three USB 3.1 Gen 1 ports One USB 3.1 Gen 1 Type-C port
Card Reader	<ul> <li>One 3-in-1 Card reader, supporting:</li> <li>Secure Digital (SD)</li> <li>Secure Digital Extended Capacity (SDXC)</li> <li>Secure Digital High Capacity (SDHC) Classes 2, 4, and 6</li> </ul>

### Table 11. Ports and connectors

Internal ports:	
PCle Slots	<ul> <li>One PCIe x16 card slot</li> <li>Two PCIe x1 card slots</li> <li>One PCIe x4 card slot</li> </ul>
M.2 Card	<ul> <li>One M.2 card slot for SSD (SATA or PCle/NVMe)</li> <li>One M.2 card slot for Wi-Fi and Bluetooth combo card</li> </ul>

### Communications

### **Table 12. Supported Communications**

Ethernet	10/100/1000 Mbps Killer Ethernet controller integrated on system board
Wireless	<ul> <li>Wi-Fi 802.11a/b/g/n</li> <li>Wi-Fi 802.11ac</li> <li>Bluetooth 4.1</li> </ul>

### Wireless module

### Table 13. Wireless module specifications

Transfer rate	Up to 867 Mbps (max)
Frequency bands supported	Dual band 2.4 GHz/5 GHz
Encryption	<ul> <li>64-bit and 128-bit WEP</li> <li>TKIP</li> <li>AES-CCMP</li> </ul>

## **Audio**

### Table 14. Audio specifications

Controller	Integrated Realtek ALC3861 High Definition Audio with Waves MaxxAudio
	Pro

### Storage

### Table 15. Storage specifications

Int	rerface	<ul> <li>SATA 6 Gbps for optical drive</li> <li>SATA 6 Gbps for hard drive</li> <li>M.2 for SSD (SATA or PCle/NVMe)</li> </ul>
На	ard drive	Three 3.5-inch hard drives
So	lid-state drive	One M.2 slot
Op	otical drive (optional)	One Slimline DVD+/-RW
Са	pacity:	
	Hard drive	Up to 4 TB
	SSD	PCle/NVMe: Up to 1 TB

## Video

### Table 16. Video specifications

	Integrated	Discrete
Controller	Integrated Intel UHD Graphics	NVIDIA GT 1030
		• NVIDIA GTX 1050 Ti
		NVIDIA GTX 1060
		NVIDIA GTX 1070
		NVIDIA GTX 1080
		• AMD Radeon RX 560
		• AMD Radeon RX 570
		• AMD Radeon RX 580
Memory	Shared system memory	Up to 8 GB

## **Power ratings**

### Table 17. Power ratings

Туре	460 W APFC	460 W Bronze	850 W Gold
Input current	8 A	8 A	10 A
Output current	3.3V/17A, 5V/25A, 12VA/18A, 12VB/16A, 12VC/8A, 5Vaux/3A	3.3V/17A, 5V/25A, 12VA/18A, 12VB/16A, 12VC/8A, 5Vaux/3A	3.3V/20A, 5V/20A, 12VA/32A, 12VB/48A, 12VD/16A, -12V/0.5A, 5Vaux/4A
Rated output voltage	3.3V, 5V, 12VA, 12VB, 12VC, 5Vaux	3.3V, 5V, 12VA, 12VB, 12VC, 5Vaux	3.3V, 5V, 12VA, 12VB, 12VD, -12V, 5Vaux
Input voltage	100 VAC-240 VAC		
Input frequency	50 Hz-60 Hz		
Temperature range: Operating	5°C to 50°C (41°F to 122°F)		
Temperature range: Storage	-40°C to 70°C (-40°F to 158°F)		

## **Computer Environment**

Airborne contaminant level: G2 or lower as defined by ISA-S71.04-1985

### Table 18. Computer environment

	Operating	Storage
Temperature range	5°C to 35°C (41°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	10% to 90% (non-condensing)	0% to 95% (non-condensing)
Vibration (maximum)*	0.26 GRMS	1.37 GRMS
Shock (maximum)	40 G for 2 ms with a change in velocity of 20 in/s (51 cm/s) <sup>†</sup>	105 G for 2 ms with a change in velocity of 52.5 in/s (133 cm/s) <sup>‡</sup>
Altitude (maximum)	-15.20 m to 3048 m (-50 ft to 10,000 ft)	-15.20 m to 10,668 m (-50 ft to 35,000 ft)

 $\ast\,$  Measured using a random vibration spectrum that simulates user environment.

 $\dagger$  Measured using a 2 ms half-sine pulse when the hard drive is in use.

# Intel Optane memory

### **Topics:**

- Enabling Intel Optane memory
- Disabling Intel Optane memory

## **Enabling Intel Optane memory**

- 1. On the taskbar, click the search box, and then type Intel Rapid Storage Technology.
- 2. Click Intel Rapid Storage Technology. The Intel Rapid Storage Technology window is displayed.
- On the Status tab, click Enable to enable the Intel Optane memory.
- 4. On the warning screen, select a compatible fast drive, and then click Yes to continue enabling Intel Optane memory.
- 5. Click Intel Optane memory > Reboot to complete enabling your Intel Optane memory.

(i) NOTE: Applications may take up to three subsequent launches after enablement to see the full performance benefits.

# **Disabling Intel Optane memory**

- CAUTION: After disabling Intel Optane memory, do not uninstall the driver for Intel Rapid Storage Technology as it will result in a blue screen error. The Intel Rapid Storage Technology user interface can be removed without uninstalling the driver.
- **NOTE:** Disabling Intel Optane memory is required before removing the SATA storage device accelerated by the Intel Optane memory module from the computer.
- 1. On the taskbar, click the search box, and then type Intel Rapid Storage Technology.
- Click Intel Rapid Storage Technology. The Intel Rapid Storage Technology window is displayed.
- 3. On the Intel Optane memory tab, click Disable to disable the Intel Optane memory.

**NOTE:** For computers in which Intel Optane memory acts as a primary storage, do not disable the Intel Optane memory. The **Disable** option will be grayed out.

- **4.** Click **Yes** if you accept the warning. The disabling progress is displayed.
- 5. Click **Reboot** to complete disabling your Intel Optane memory and restart your computer.

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# **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	Deell
Tips	· •
Contact Support	In Windows search, type Contact Support, and press Enter.
Online help for operating system	www.dell.com/support/windows
Troubleshooting information, user manuals, set up instructions, product specifications, technical help blogs, drivers, software updates, and so on.	www.dell.com/support
Dell knowledge base articles for a variety of computer concerns	<ol> <li>Go to www.dell.com/support.</li> <li>On the menu bar at the top of the Support page, select Support &gt; Knowledge Base.</li> <li>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.</li> </ol>
Learn and know the following information about your product:	See Me and My Dell at www.dell.com/support/manuals.
<ul> <li>Product specifications</li> <li>Operating system</li> <li>Setting up and using your product</li> <li>Data backup</li> <li>Troubleshooting and diagnostics</li> <li>Factory and system restore</li> <li>BIOS information</li> </ul>	<ul> <li>To locate the <i>Me and My Dell</i> relevant to your product, identify your product through one of the following:</li> <li>Select <b>Detect Product</b>.</li> <li>Locate your product through the drop-down menu under <b>View Products</b>.</li> <li>Enter the <b>Service Tag number</b> or <b>Product ID</b> in the search bar.</li> </ul>

### **Contacting Dell**

To contact Dell for sales, technical support, or customer service issues, see www.dell.com/contactdell.

(i) 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.