XPS 8930
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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Contents

Set up your computer

1   Connect the keyboard and mouse.

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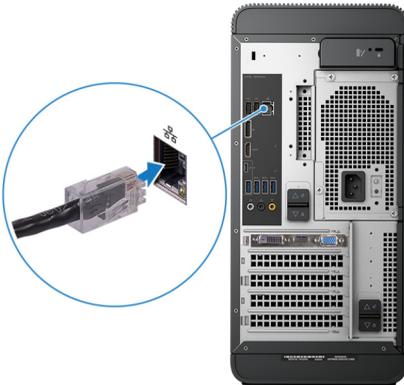
3   Connect the display.

> ![NOTE icon] **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 Follow the instructions on the screen to finish Windows setup:

a) Connect to a network.
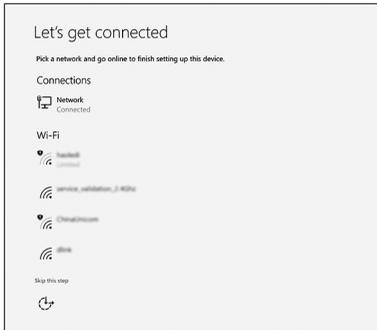
b) Sign-in to your Microsoft account or create a new account.
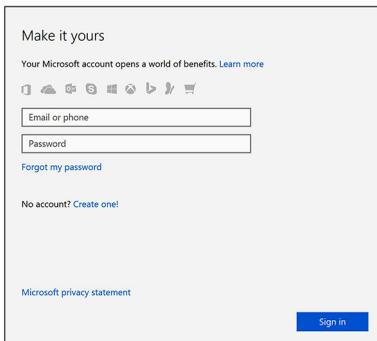
7 Locate Dell apps.

Table 1. Locate Dell apps

Register your computer

Dell Help & Support
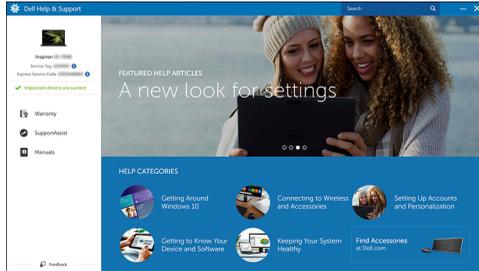
SupportAssist — Check and update your computer

8 Create recovery drive for Windows.

> **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

Dell recommends that you 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.

> **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`.
3. 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**.
6. 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**.

   > **NOTE: This process may take several minutes to complete.**
8. Click **Finish**.

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.**

1. Connect the USB recovery drive to your computer.
2. Restart your computer.

3 Press F12 after the Dell logo is displayed on the screen to access the boot menu.

A **Preparing one-time boot menu** message appears.

4 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.

This will take several minutes to complete and your computer will restart during this process.

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.

> **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.

Views

Front
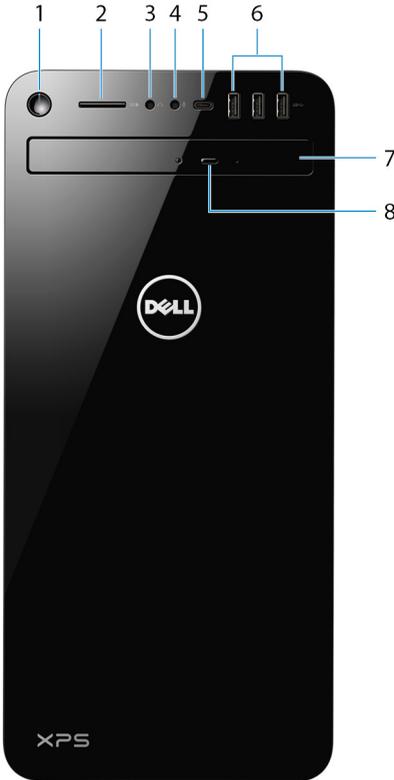
1   **Power button**

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, a headset (headphone and microphone combo), 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.

> 📝 **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 or close the optical drive tray.

Back
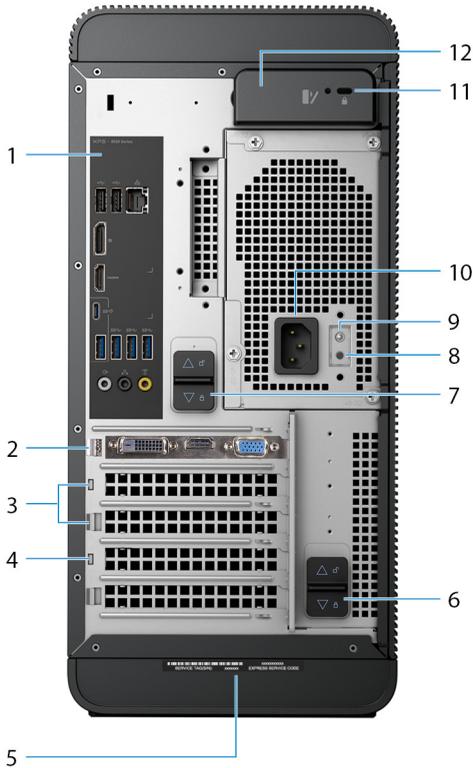
1 **Back panel**

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.

✎ **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
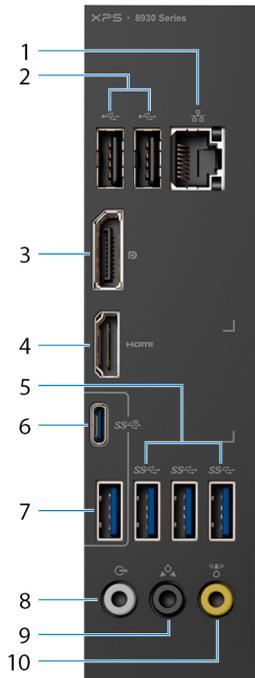
1 **Network port - 10/100/1000 Mbps (with lights)**

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.

> **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.

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

Specifications

Computer model

Table 2. Computer model

Computer model	XPS 8930

System information

Table 3. System information

Processor	8th generation Intel Core i3/i5/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)
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
Type	DDR4
Speed	• Up to 2400 MHz: i3 processor • Up to 2666 MHz: i5/i7/i7k processors

Configurations 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	
16 GB	8 GB		8 GB	
24 GB	4 GB	4 GB	8 GB	8 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).

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

- 7th 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	PCIe NVMe 3.0 x2
Connector	M.2
Configurations supported	16 GB

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	• Two USB 2.0 ports • Three USB 3.1 Gen 1 ports • One USB 3.1 Gen 2 Type-C port • One USB 3.1 Gen 2 port
Video/Audio	• One Surround Front Stereo port • One Surround Rear Stereo port

Back panel ports

	• One Surround Center/Subwoofer port
	• One HDMI 1.4 port for integrated graphics
	• One DisplayPort for integrated graphics

Table 10. Ports and connectors

Front panel ports:

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

Table 11. Ports and connectors

Internal ports:

PCIe Slots	• One PCIe x16 card slot
	• Two PCIe x1 card slots
	• One PCIe x4 card slot
M.2 Card	• One M.2 card slot for SSD (SATA or PCIe/NVMe)
	• One M.2 card slot for Wi-Fi and Bluetooth combo card

Communications

Table 12. Supported Communications

Ethernet	10/100/1000 Mbps Ethernet controller integrated on system board
Wireless	• Wi-Fi 802.11a/b/g/n • Wi-Fi 802.11ac • Bluetooth 4.1

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	• 64-bit and 128-bit WEP • TKIP • AES-CCMP

Audio

Table 14. Audio specifications

Controller	Integrated Realtek ALC3861 High Definition Audio with Waves MaxxAudio Pro

Storage

Table 15. Storage specifications

Interface	• SATA 6 Gbps for optical drive • SATA 6 Gbps for hard drive

	• M.2 for SSD (SATA or PCIe/NVMe)
Hard drive	Three 3.5-inch hard drives
Solid-state drive	One M.2 slot
Optical drive (optional)	One Slimline DVD+/-RW
Capacity:	
Hard drive	Up to 4 TB
SSD	PCIe/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

Type	460 W APFC	460 W Bronze
Input current	8 A	8 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

Rated output voltage	3.3V, 5V, 12VA, 12VB, 12VC, 5Vaux	3.3V, 5V, 12VA, 12VB, 12VC, 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)[†]	105 G for 2 ms with a change in velocity of 52.5 in/s (133 cm/s)[‡]
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)

* 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.

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.

3 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.

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

Disabling Intel Optane memory

> CAUTION: Do not try to remove the Intel Rapid Storage Technology driver after disabling Intel Optane memory, 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 or the Intel Optane memory module from the system.

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.

3 On the **Intel Optane memory** tab, click **Disable** to disable the Intel Optane memory.

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.

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

Information about Dell products and services	www.dell.com
Dell Help & Support app	
Accessing help	In Windows search, type `Help and Support`, and press Enter.
Online help for operating system	www.dell.com/support/windows
Troubleshooting information, user manuals, setup 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.	1 Go to www.dell.com/support. 2 Type the subject or keyword in the **Search** box. 3 Click **Search** to retrieve the related articles.
Learn and know the following information about your product: • Product specifications • Operating system • Setting up and using your product • Data backup • Troubleshooting and diagnostics • Factory and system restore	See *Me and My Dell* at www.dell.com/support/manuals. To locate the *Me and My Dell* relevant to your product, identify your product through one of the following: • Select **Detect Product**. • Locate your product through the drop-down menu under **View Products**.

- BIOS information
- Enter the **Service Tag number** or **Product ID** in the search bar.

Contacting Dell

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

NOTE: Availability varies by country and product, and some services may not be available in your country.

NOTE: If you do not have an active internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.