

# XPS 8910

## 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.

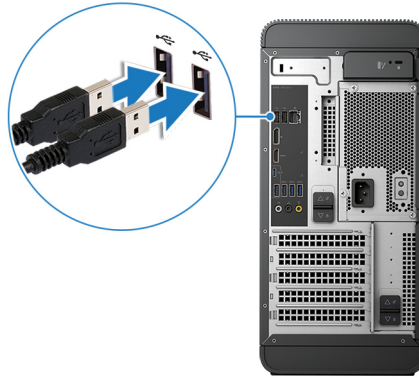
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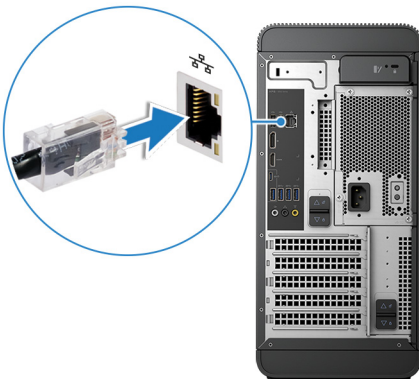
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# Set up your computer

1. Connect the keyboard and mouse.



2. Connect the network cable-optional.

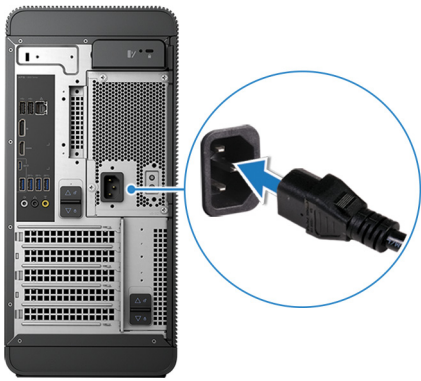


3. Connect the display.

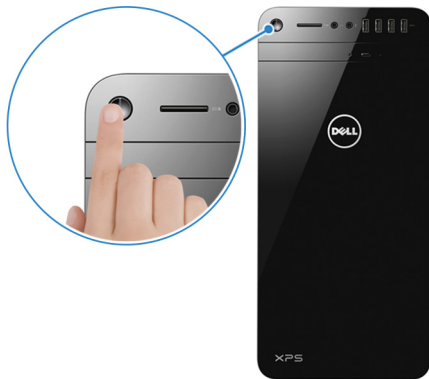


**NOTE:** If you ordered your computer with a discrete graphics card, the HDMI and the display ports on the back panel of your computer are covered. Connect the display to the discrete graphics card.

4. Connect the power cable.

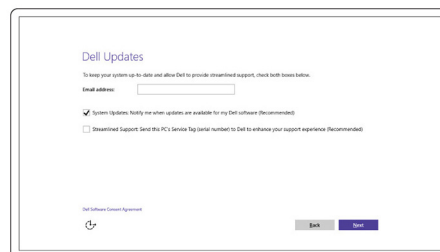


5. Press the power button.

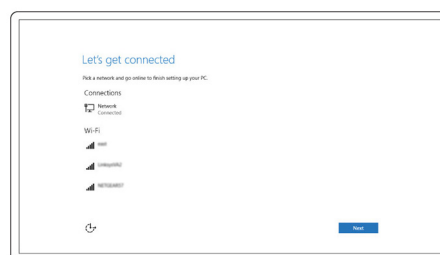


6. Follow the instructions on the screen to finish Windows setup:

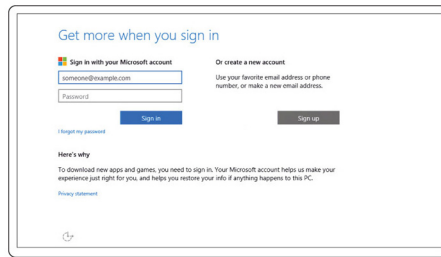
a) Enable security and Dell updates.



b) Connect to a wireless network.



c) Sign-in to your Microsoft account or create a new account.

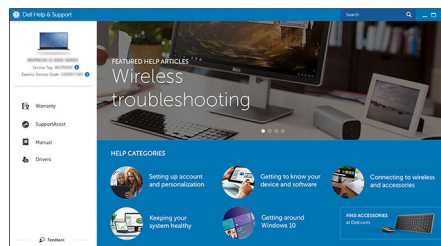


7. Explore Dell resources on your desktop.



Register your computer

Dell Help & Support



SupportAssist — Check and update your computer

# 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.

 **NOTE:** This process may take up to an hour to complete.

 **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**.
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](http://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.

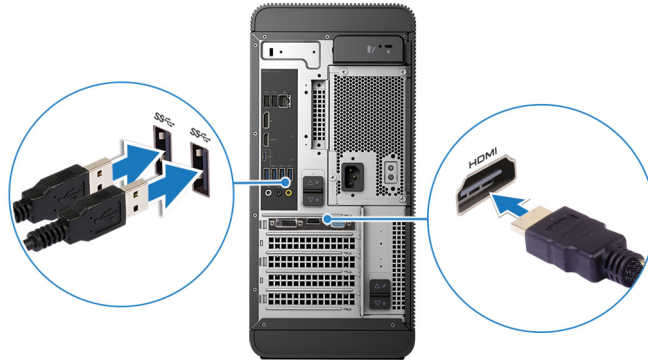
 **NOTE:** Before reinstalling Windows, ensure your computer has more than 2 GB of memory and more than 32 GB of storage space.

 **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.
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.

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

1. Download and run the setup tools for your VR headset at [www.dell.com/VRsupport](http://www.dell.com/VRsupport).
2. Connect the VR headset to the designated USB and HDMI port on your computer, when prompted.

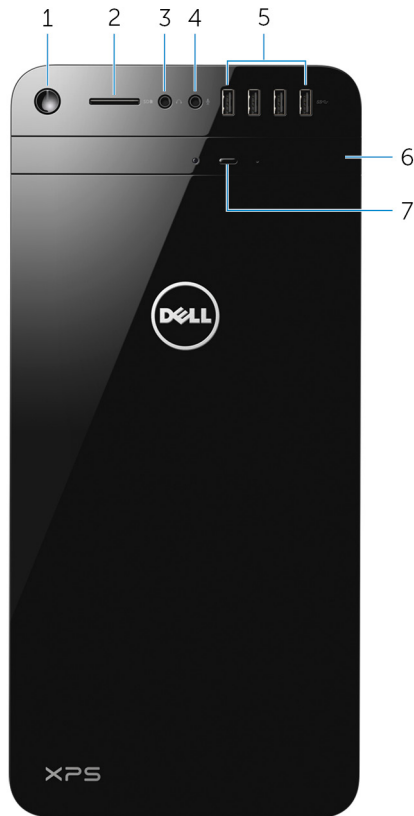


**NOTE:** Connect the headset to the HDMI port on the discrete graphics card and connect the display to any available port on the card.

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



## Front



### 1. Power button

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

Press to shut down the computer 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](http://www.dell.com/support).

### 2. SD-card slot

Reads from and writes to SD card.

### 3. Headphone port

Connect a pair of headphones or speakers.

### 4. Microphone port

Connect an external microphone for recording sound, making audio calls, making video calls, and so on.

### 5. USB 3.0 ports (4)

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

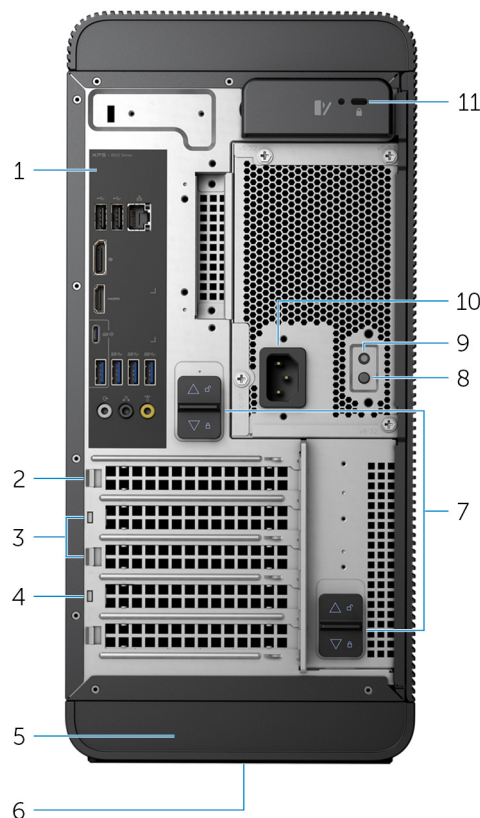
### 6. Optical drive (optional)

Reads from and writes to CDs and DVDs.

### 7. Optical-drive eject button

Press to eject the media from the optical drive.

# 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 this slot for connecting the graphics card.

**NOTE:** If you have two graphics cards, the card installed in this slot is the primary graphics card.

## 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

Provides the Service Tag and Express Service Code needed when contacting Dell.

## 6. Regulatory label

Contains regulatory information about your computer.

## 7. Power supply unit release latches (2)

Allows you to remove the power supply unit from your computer.

## 8. Power supply light

Indicates the power-supply state.

## 9. Power-supply diagnostic button

Press to check the power-supply state.

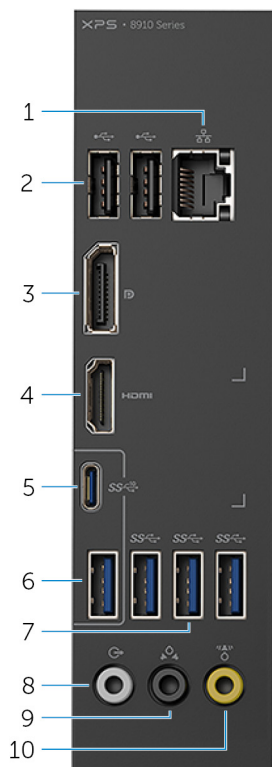
## 10. Power port

Connect a power cable to provide power to your computer.

## 11. Security-cable slot

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

# Back panel



## 1. Network port

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 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 Type-C port

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

## 6. USB 3.1 port

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

## 7. USB 3.0 ports (3)

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

## 8. Front L/R surround line-out port

Connect audio-output devices such as speakers and amplifiers. In a 5.1 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 1. Computer model**

|                |          |
|----------------|----------|
| Computer model | XPS 8910 |
|----------------|----------|

## System information

|                |                                                                                                                                                        |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Computer model | XPS 8910                                                                                                                                               |
| Processor      | <ul style="list-style-type: none"> <li>• 6<sup>th</sup> Generation Intel Core i5/i5k</li> <li>• 6<sup>th</sup> Generation Intel Core i7/i7k</li> </ul> |
| Chipset        | Intel Z170                                                                                                                                             |

## Operating system

**Table 2. Operating system**

|                             |                                                                                                             |
|-----------------------------|-------------------------------------------------------------------------------------------------------------|
| Operating systems supported | <ul style="list-style-type: none"> <li>• Windows 10 Pro 64-bit</li> <li>• Windows 10 Home 64-bit</li> </ul> |
|-----------------------------|-------------------------------------------------------------------------------------------------------------|

## Dimensions and weight

|        |                   |
|--------|-------------------|
| Height | 389 mm (15.32 in) |
| Width  | 180 mm (7.09 in)  |
| Depth  | 356 mm (14.02 in) |
| Weight | 10 kg (22 lb)     |

**NOTE:** The weight of your computer varies depending on the configuration ordered and the manufacturing variability.

## Memory

**Table 3. Memory specifications**

|                          |                                                                           |
|--------------------------|---------------------------------------------------------------------------|
| Slots                    | Four DIMM slots                                                           |
| Type                     | <ul style="list-style-type: none"> <li>• UDIMM</li> <li>• DDR4</li> </ul> |
| Speed                    | 2133 MHz                                                                  |
| Configurations supported | 8 GB, 16 GB, 24 GB, 32 and 64 GB                                          |

The following table lists the available memory configuration matrix:

**Table 4. 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).

**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 5. 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

### Back panel ports:

|             |                                                                                                                                                                                                                                                                               |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network     | One RJ45 port                                                                                                                                                                                                                                                                 |
| USB         | <ul style="list-style-type: none"> <li>• Two USB 2.0 ports</li> <li>• Three USB 3.0 ports</li> <li>• One USB 3.1 Type-A port</li> <li>• One USB 3.1 Type-C port</li> </ul>                                                                                                    |
| Video/Audio | <ul style="list-style-type: none"> <li>• One Surround Front Stereo port</li> <li>• One Surround Rear Stereo port</li> <li>• One Surround Center/Subwoofer port</li> <li>• One HDMI port for integrated graphics</li> <li>• One DisplayPort for integrated graphics</li> </ul> |

### Front panel ports:

|       |                                                                                                              |
|-------|--------------------------------------------------------------------------------------------------------------|
| Audio | <ul style="list-style-type: none"> <li>• One Stereo Headphone jack</li> <li>• One Microphone jack</li> </ul> |
| USB   | Four USB 3.0 ports                                                                                           |

**Front panel ports:**

|             |                                                                                                                                                                                                                       |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Card Reader | One 3-in-1 Card reader, supporting: <ul style="list-style-type: none"><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> |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Internal ports:**

|            |                                                                                                                                        |
|------------|----------------------------------------------------------------------------------------------------------------------------------------|
| PCIe Slots | <ul style="list-style-type: none"><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 style="list-style-type: none"><li>One M.2 card slot for SSD</li><li>One M.2 card slot for Wi-Fi and Bluetooth combo card</li></ul> |

Communications

|          |                                                                                                                  |
|----------|------------------------------------------------------------------------------------------------------------------|
| Ethernet | 10/100/1000 Mbps Ethernet controller integrated on system board                                                  |
| Wireless | <ul style="list-style-type: none"><li>Wi-Fi 802.11 b/g/n</li><li>Wi-Fi 802.11 ac</li><li>Bluetooth 4.0</li></ul> |

Wireless module

Table 6. Wireless module specifications

|                           |                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------|
| Transfer rate             | Up to 867 Mbps (max)                                                                                 |
| Frequency bands supported | Dual band 2.4 GHz/5 GHz                                                                              |
| Encryption                | <ul style="list-style-type: none"><li>64-bit and 128-bit WEP</li><li>TKIP</li><li>AES-CCMP</li></ul> |

Audio

|            |                                                                           |
|------------|---------------------------------------------------------------------------|
| Controller | Integrated Realtek ALC3861 High Definition Audio with Waves MaxxAudio Pro |
|------------|---------------------------------------------------------------------------|

Storage

|                          |                                                                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Interface                | <ul style="list-style-type: none"><li>SATA 6 Gbps for optical drive</li><li>SATA 6 Gbps for hard drive</li><li>M.2 for SSD</li></ul> |
| Hard drive               | Three 3.5-inch hard drives                                                                                                           |
| Solid-state drive        | One M.2 slot                                                                                                                         |
| Optical drive (optional) | One Slimline DVD+/-RW                                                                                                                |

# Video

|            | Integrated            | Discrete                                                                                                                                                                                                                            |
|------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Controller | Intel HD Graphics 530 | <ul style="list-style-type: none"> <li>• NVIDIA GT 730</li> <li>• NVIDIA GTX 745</li> <li>• NVIDIA GTX 750 Ti</li> <li>• NVIDIA GTX 960</li> <li>• NVIDIA GTX 970</li> <li>• AMD Radeon R9 370</li> <li>• NVIDIA GTX 980</li> </ul> |
| Memory     | Shared system memory  | Up to 4GB GDDR5                                                                                                                                                                                                                     |

## Power ratings

|                              |                                                        |                                                         |                                                         |
|------------------------------|--------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Input current                | 6 A                                                    | 8 A                                                     | 8 A                                                     |
| Output current               | 3.3V/10A, 5V/13A, 12VA/9A, 12VB/12A, 12VC/8A, 5Vaux/3A | 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                       | 3.3V, 5V, 12VA, 12VB, 12VC, 5Vaux                       |
| Type                         | 350 W APFC                                             | 460 W APFC                                              | 460 W Bronze                                            |
| 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

|                             | 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)                                    |

\* 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:** 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`.
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.

 **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.

# 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 7. Self-help resources**

| Self-help resources                                                                                                                                                                                                                                                                     | Resource location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Information about Dell products and services                                                                                                                                                                                                                                            | <a href="http://www.dell.com">www.dell.com</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| My Dell app                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tips                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Contact Support                                                                                                                                                                                                                                                                         | In Windows search, type <b>Contact Support</b> , and press Enter.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Online help for operating system                                                                                                                                                                                                                                                        | <a href="http://www.dell.com/support/windows">www.dell.com/support/windows</a>                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on.                                                                                                                                      | <a href="http://www.dell.com/support">www.dell.com/support</a>                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Dell knowledge base articles for a variety of computer concerns.                                                                                                                                                                                                                        | <ol style="list-style-type: none"> <li>1. Go to <a href="http://www.dell.com/support">www.dell.com/support</a>.</li> <li>2. Type the subject or keyword in the <b>Search</b> box.</li> <li>3. Click <b>Search</b> to retrieve the related articles.</li> </ol>                                                                                                                                                                                                                                              |
| Learn and know the following information about your product:                                                                                                                                                                                                                            | <p>See <i>Me and My Dell</i> at <a href="http://www.dell.com/support/manuals">www.dell.com/support/manuals</a>.</p> <p>To locate the <i>Me and My Dell</i> relevant to your product, identify your product through one of the following:</p> <ul style="list-style-type: none"> <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> |
| <ul style="list-style-type: none"> <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> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see [www.dell.com/contactdell](http://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 on your purchase invoice, packing slip, bill, or Dell product catalog.