

# OptiPlex 5000 Tower

## 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.

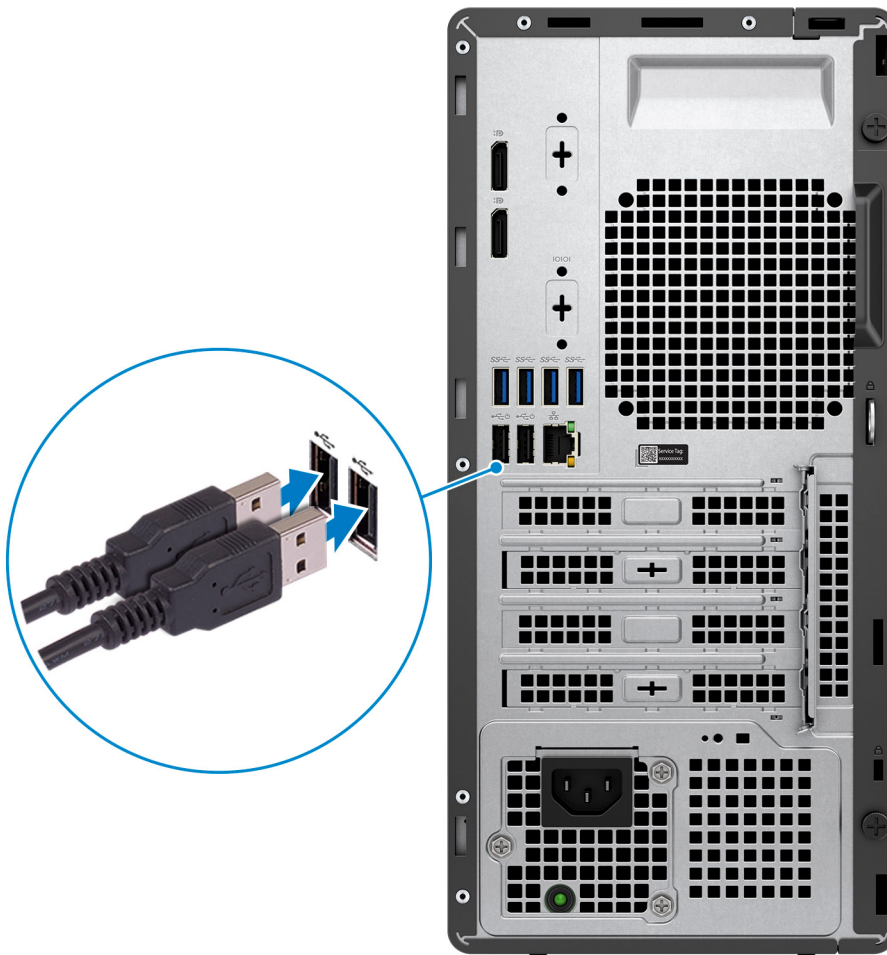
 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

|                                                              |           |
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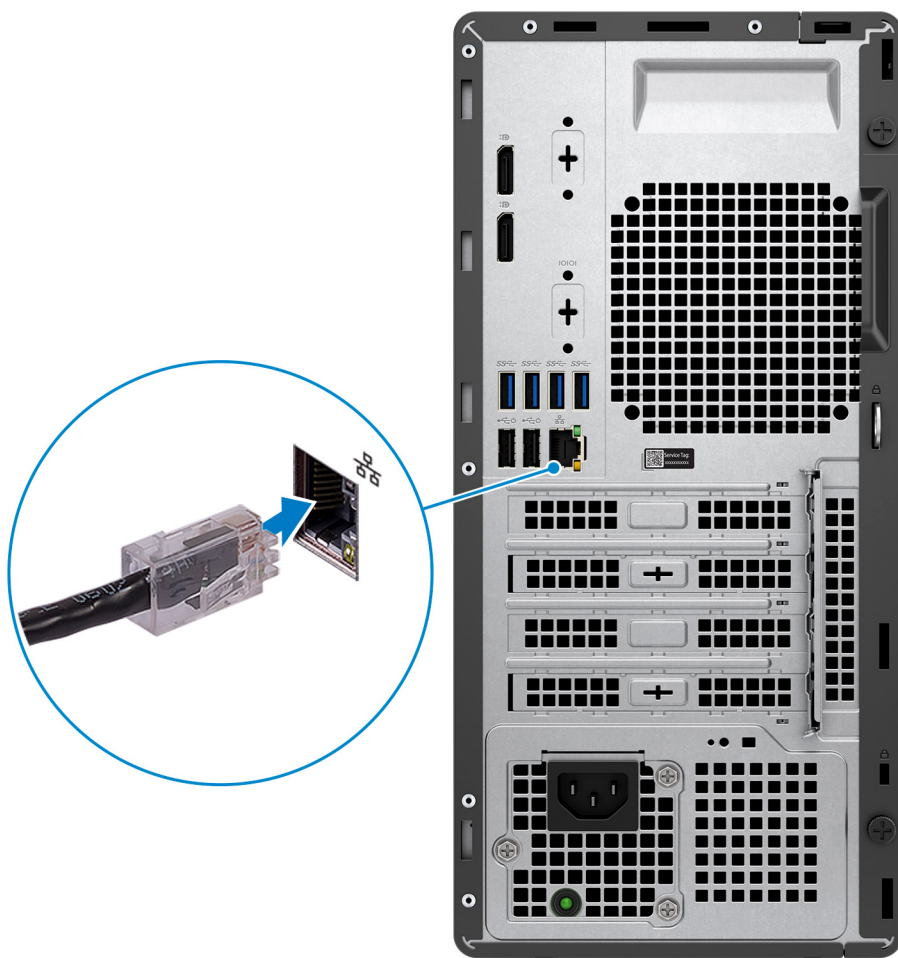
# Set up your computer

## Steps

1. Connect the keyboard and mouse.



2. Connect to your network using a cable.



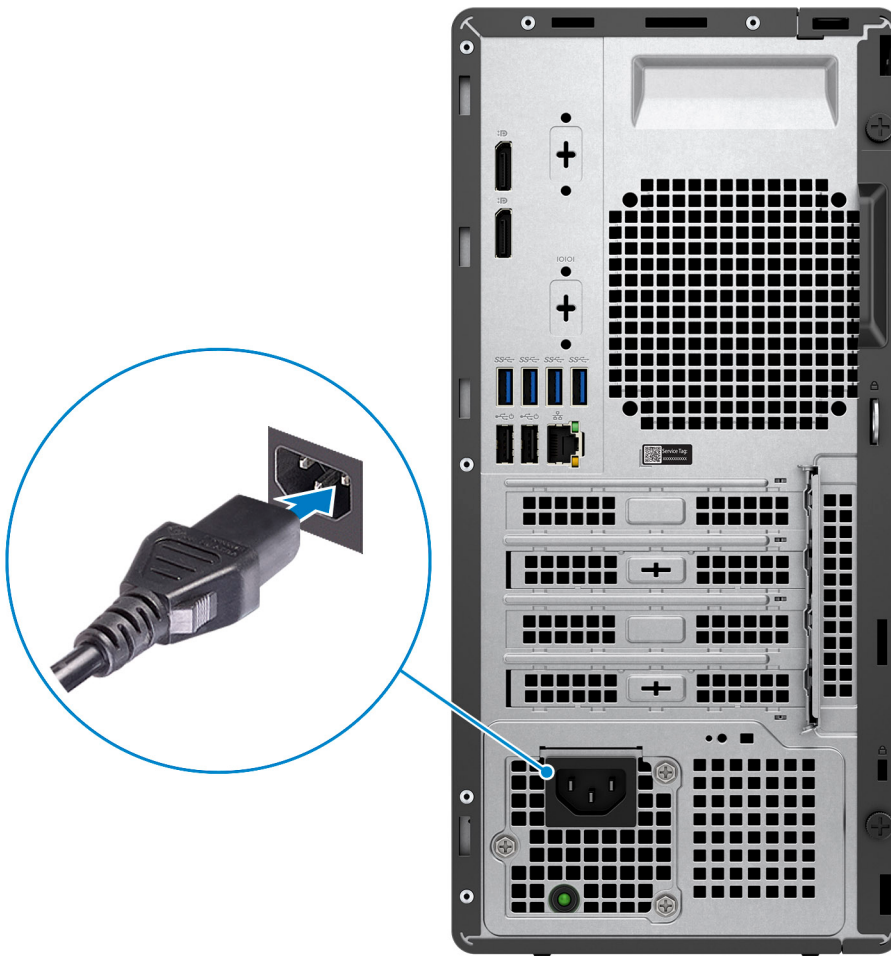
**NOTE:** Alternatively, you can connect to a wireless network.

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 port on 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**

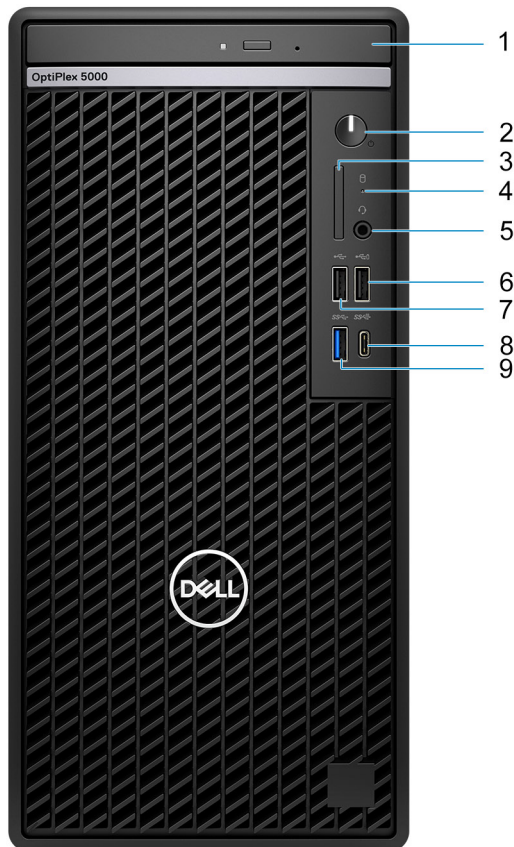
| Resources                                                                           | Description                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>My Dell</b><br>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.                                                          |
|  | <b>SupportAssist</b><br>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 |

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

| Resources                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                   | <p>failures. For more information, see <i>SupportAssist for Home PCs User's Guide</i> at <a href="http://www.dell.com/serviceabilitytools">www.dell.com/serviceabilitytools</a>. Click <b>SupportAssist</b> and then, click <b>SupportAssist for Home PCs</b>.</p> <p> <b>NOTE:</b> In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p> |
|  | <p><b>Dell Update</b></p> <p>Updates your computer with critical fixes and latest device drivers as they become available. For more information on using Dell Update, search in the Knowledge Base Resource at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p>                                                                                                                                                                           |
|  | <p><b>Dell Digital Delivery</b></p> <p>Download software applications, which are purchased but not preinstalled on your computer. For more information on using Dell Digital Delivery, search in the Knowledge Base Resource at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p>                                                                                                                                                          |

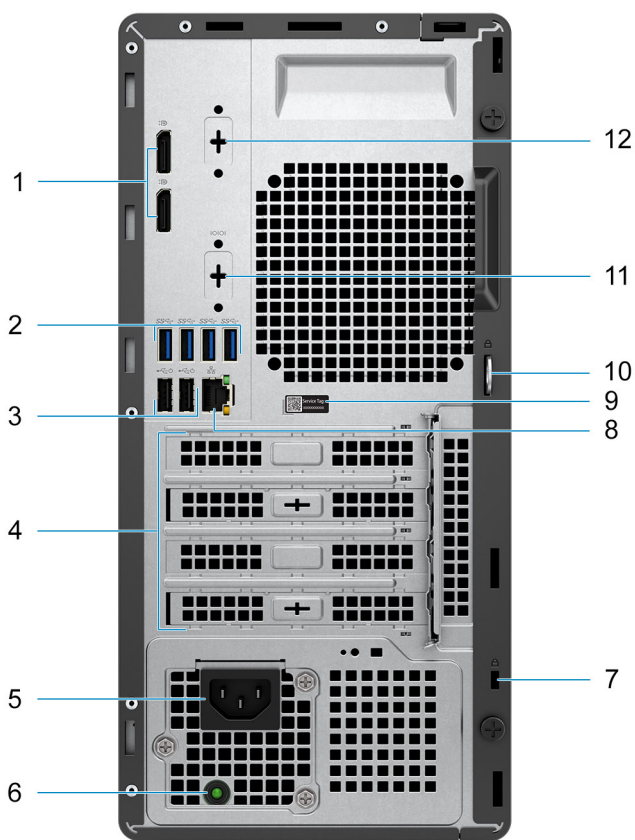
## Chassis overview

### Front



1. Optical disk-drive (optional)
2. Power button with diagnostic LED
3. SD-card slot (optional)
4. Hard-disk drive activity light
5. Universal audio jack
6. USB 2.0 port with PowerShare
7. USB 2.0 port
8. USB 3.2 Gen 2 Type-C port
9. USB 3.2 Gen 1 port

# Back



1. Two DisplayPort 1.4a (HBR2) ports
2. Four USB 3.2 Gen 1 ports
3. Two USB 2.0 ports with Smart Power On
4. Four expansion card slots
5. Power cord connector port
6. Power supply diagnostic light
7. Kensington security-cable slot
8. RJ45 Ethernet port
9. Service tag label
10. Padlock ring
11. Serial port (optional)
12. One video port (HDMI 2.0b/DisplayPort 1.4/VGA/USB Type-C with DisplayPort Alt mode) (optional)

# Specifications of OptiPlex 5000 Tower

## Dimensions and weight

The following table lists the height, width, depth, and weight of your OptiPlex 5000 Tower.

**Table 2. Dimensions and weight**

| Description                                                                                                                                                                                              | Values                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Height                                                                                                                                                                                                   | 324.30 mm (12.77 in.)                                                                                                |
| Width                                                                                                                                                                                                    | 154.00 mm (6.06 in.)                                                                                                 |
| Depth                                                                                                                                                                                                    | 292.20 mm (11.50 in.)                                                                                                |
| Weight<br> <b>NOTE:</b> The weight of your computer depends on the configuration ordered and manufacturing variability. | <ul style="list-style-type: none"> <li>Minimum - 5.41 kg (11.94 lb)</li> <li>Maximum - 7.34 kg (16.18 lb)</li> </ul> |

## Processors

The following table lists the details of the processors supported by your OptiPlex 5000 Tower.

 **NOTE:** Global Standard Products (GSP) are a subset of Dell's relationship products that are managed for availability and synchronized transitions on a worldwide basis. They ensure the same platform is available for purchase globally. This allows customers to reduce the number of configurations managed on a worldwide basis, thereby reducing their costs. They also enable companies to implement global IT standards by locking in specific product configurations worldwide.

Device Guard (DG) and Credential Guard (CG) are the new security features that are only available on Windows today.

Device Guard is a combination of enterprise-related hardware and software security features that, when configured together, will lock a device down so that it can only run trusted applications. If it is not a trusted application, it cannot run.

Credential Guard uses virtualization-based security to isolate secrets (credentials) so that only privileged system software can access them. Unauthorized access to these secrets can lead to credential theft attacks. Credential Guard prevents these attacks by protecting NTLM password hashes and Kerberos Ticket Granting Tickets.

 **NOTE:** Processor numbers are not a measure of performance. Processor availability is subject to change and may vary by region/country.

**Table 3. Processors**

| Processors                                      | Wattage | Core count | Thread count | Speed                | Cache | Integrated graphics    | GSP | DG/CG Ready |
|-------------------------------------------------|---------|------------|--------------|----------------------|-------|------------------------|-----|-------------|
| Intel Pentium Gold G7400                        | 46 W    | 2          | 4            | 3.70 GHz             | 6 MB  | Intel UHD Graphics 710 | No  | Yes         |
| 12 <sup>th</sup> Generation Intel Core i3-12100 | 60 W    | 4          | 8            | 3.30 GHz to 4.30 GHz | 12 MB | Intel UHD Graphics 730 | No  | Yes         |

**Table 3. Processors (continued)**

| Processors                                            | Wattage | Core count | Thread count | Speed                | Cache | Integrated graphics    | GSP | DG/CG Ready |
|-------------------------------------------------------|---------|------------|--------------|----------------------|-------|------------------------|-----|-------------|
| 12 <sup>th</sup> Generation Intel Core i3-12300       | 60 W    | 4          | 8            | 3.50 GHz to 4.40 GHz | 12 MB | Intel UHD Graphics 730 | No  | Yes         |
| 12 <sup>th</sup> Generation Intel Core i5-12400       | 65 W    | 6          | 12           | 2.50 GHz to 4.40 GHz | 18 MB | Intel UHD Graphics 730 | Yes | Yes         |
| 12 <sup>th</sup> Generation Intel Core i5-12500, vPro | 65 W    | 6          | 12           | 3.00 GHz to 4.60 GHz | 18 MB | Intel UHD Graphics 770 | Yes | Yes         |
| 12 <sup>th</sup> Generation Intel Core i5-12600, vPro | 65 W    | 6          | 12           | 3.30 GHz to 4.80 GHz | 18 MB | Intel UHD Graphics 770 | Yes | Yes         |
| 12 <sup>th</sup> Generation Intel Core i7-12700, vPro | 65 W    | 12         | 20           | 2.10 GHz to 4.90 GHz | 25 MB | Intel UHD Graphics 770 | Yes | Yes         |

## Chipset

The following table lists the details of the chipset supported by your OptiPlex 5000 Tower.

**Table 4. Chipset**

| Description    | Values                                                                                                                             |
|----------------|------------------------------------------------------------------------------------------------------------------------------------|
| Chipset        | Intel Q670                                                                                                                         |
| Processor      | <ul style="list-style-type: none"> <li>Intel Pentium Gold G7400</li> <li>12<sup>th</sup> Generation Intel Core i3/i5/i7</li> </ul> |
| DRAM bus width | 64-bit                                                                                                                             |
| Flash EPROM    | 32 MB                                                                                                                              |
| PCIe bus       | Up to Gen4                                                                                                                         |

## Operating system

Your OptiPlex 5000 Tower supports the following operating systems:

- Windows 11 Home, 64-bit
- Windows 11 Pro, 64-bit
- Windows 11 Downgrade (Windows 10 image)

- Windows 11 Pro National Education, 64-bit
- Windows 11 CMIT Government Edition, 64-bit (China only)
- Kylin Linux Desktop version 10.1 (China only)
- Ubuntu Linux 20.04 LTS, 64-bit

## Memory

The following table lists the memory specifications of your OptiPlex 5000 Tower.

**Table 5. Memory specifications**

| Description                     | Values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Memory slots                    | Four-DIMM slots                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Memory type                     | DDR4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Memory speed                    | 3200 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Maximum memory configuration    | 128 GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Minimum memory configuration    | 4 GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Memory size per slot            | 4 GB, 8 GB, 16 GB, and 32 GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Memory configurations supported | <ul style="list-style-type: none"> <li>• 4 GB, 1 x 4 GB, DDR4, 3200 MHz, single-channel</li> <li>• 8 GB, 1 x 8 GB, DDR4, 3200 MHz, single-channel</li> <li>• 8 GB, 2 x 4 GB, DDR4, 3200 MHz, dual-channel</li> <li>• 16 GB, 1 x 16 GB, DDR4, 3200 MHz, single-channel</li> <li>• 16 GB, 2 x 8 GB, DDR4, 3200 MHz, dual-channel</li> <li>• 16 GB, 4 x 4 GB, DDR4, 3200 MHz, dual-channel</li> <li>• 32 GB, 1 x 32 GB, DDR4, 3200 MHz, single-channel</li> <li>• 32 GB, 2 x 16 GB, DDR4, 3200 MHz, dual-channel</li> <li>• 32 GB, 4 x 8 GB, DDR4, 3200 MHz, dual-channel</li> <li>• 64 GB, 2 x 32 GB, DDR4, 3200 MHz, dual-channel</li> <li>• 64 GB, 4 x 16 GB, DDR4, 3200 MHz, dual-channel</li> <li>• 128 GB, 4 x 32 GB, DDR4, 3200 MHz, dual-channel</li> </ul> |

## Memory matrix

The following table lists the memory configurations supported on your OptiPlex 5000 Tower.

**Table 6. Memory matrix**

| Configuration | Slot   |        |        |        |
|---------------|--------|--------|--------|--------|
|               | UDIMM1 | UDIMM2 | UDIMM3 | UDIMM4 |
| 4 GB DDR4     | 4 GB   | NA     | NA     | NA     |
| 8 GB DDR4     | 8 GB   | NA     | NA     | NA     |
| 8 GB DDR4     | 4 GB   | NA     | 4 GB   | NA     |
| 16 GB DDR4    | 16 GB  | NA     | NA     | NA     |
| 16 GB DDR4    | 8 GB   | NA     | 8 GB   | NA     |
| 16 GB DDR4    | 4 GB   | 4 GB   | 4 GB   | 4 GB   |
| 32 GB DDR4    | 32 GB  | NA     | NA     | NA     |

**Table 6. Memory matrix (continued)**

|             |       |       |       |       |
|-------------|-------|-------|-------|-------|
| 32 GB DDR4  | 16 GB | NA    | 16 GB | NA    |
| 32 GB DDR4  | 8 GB  | 8 GB  | 8 GB  | 8 GB  |
| 64 GB DDR4  | 32 GB | NA    | 32 GB | NA    |
| 64 GB DDR4  | 16 GB | 16 GB | 16 GB | 16 GB |
| 128 GB DDR4 | 32 GB | 32 GB | 32 GB | 32 GB |

## External ports

The following table lists the external ports of your OptiPlex 5000 Tower.

**Table 7. External ports**

| Description         | Values                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network port        | One RJ45 Ethernet port                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| USB ports           | Front: <ul style="list-style-type: none"> <li>• One USB 2.0 port</li> <li>• One USB 2.0 port with PowerShare</li> <li>• One USB 3.2 Gen 1 port</li> <li>• One USB 3.2 Gen 2 Type-C port</li> </ul> Rear: <ul style="list-style-type: none"> <li>• Two USB 2.0 ports with Smart Power On</li> <li>• Four USB 3.2 Gen 1 ports</li> </ul>                                                                                                                                  |
| Audio port          | Universal audio jack                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Video port          | <ul style="list-style-type: none"> <li>• Two DisplayPort 1.4a (HBR2) ports</li> <li>• One optional video port (HDMI 2.0b/DisplayPort 1.4a/VGA/USB 3.2 Gen 2 Type-C with DisplayPort Alt mode)</li> </ul> <p> <b>NOTE:</b> Download and install the latest Intel Graphics driver from <a href="http://www.dell.com/support">www.dell.com/support</a> to enable multiple displays.</p> |
| I/O port            | One Serial port (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Media-card reader   | One SD-card slot (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Power-adaptor port  | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Security-cable slot | <ul style="list-style-type: none"> <li>• One Kensington security-cable slot</li> <li>• Padlock ring</li> </ul>                                                                                                                                                                                                                                                                                                                                                          |

## Internal slots

The following table lists the internal slots of your OptiPlex 5000 Tower.

**Table 8. Internal slots**

| Description    | Values                                                                                                                                                                                                                                                                                                                                            |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| M.2            | <ul style="list-style-type: none"><li>One M.2 2230 slot for WiFi and Bluetooth card</li><li>One M.2 2230/2280 slot for solid-state drive</li></ul> <p><b>NOTE:</b> To learn more about the features of different types of M.2 cards, search in the Knowledge Base Resource at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p> |
| PCIe expansion | <ul style="list-style-type: none"><li>One full-height Gen 3 PCIe x16 slot</li><li>One full-height Gen 3 PCIe x4 (open end) slot</li><li>Two full-height Gen 3 PCIe x1 slot</li></ul>                                                                                                                                                              |

## Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your OptiPlex 5000 Tower.

**Table 9. Ethernet specifications**

| Description   | Values           |
|---------------|------------------|
| Model number  | Intel I219-LM    |
| Transfer rate | 10/100/1000 Mbps |

## Wireless module

The following table lists the Wireless Local Area Network (WLAN) module specifications of your OptiPlex 5000 Tower.

**Table 10. Wireless module specifications**

| Description               | Option one                                                                                                                                                       | Option two                                                                                                                      | Option three                                                                                                                    |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Model number              | Intel AX211                                                                                                                                                      | Realtek RTL8821CE                                                                                                               | Realtek RTL8822CE<br><b>NOTE:</b> Includes BIOSConnect restriction                                                              |
| Transfer rate             | 2400 Mbps                                                                                                                                                        | 433 Mbps                                                                                                                        | 867 Mbps                                                                                                                        |
| Frequency bands supported | 2.40 GHz/5 GHz/6 GHz<br><b>NOTE:</b> The 6 GHz frequency is supported on computers installed with Windows 11 operating system only.                              | 2.40 GHz/5 GHz                                                                                                                  | 2.40 GHz/5 GHz                                                                                                                  |
| Wireless standards        | <ul style="list-style-type: none"><li>WiFi 802.11a/b/g</li><li>Wi-Fi 4 (WiFi 802.11n)</li><li>Wi-Fi 5 (WiFi 802.11ac)</li><li>Wi-Fi 6E (WiFi 802.11ax)</li></ul> | <ul style="list-style-type: none"><li>WiFi 802.11a/b/g</li><li>Wi-Fi 4 (WiFi 802.11n)</li><li>Wi-Fi 5 (WiFi 802.11ac)</li></ul> | <ul style="list-style-type: none"><li>WiFi 802.11a/b/g</li><li>Wi-Fi 4 (WiFi 802.11n)</li><li>Wi-Fi 5 (WiFi 802.11ac)</li></ul> |
| Encryption                | <ul style="list-style-type: none"><li>64-bit/128-bit WEP</li></ul>                                                                                               | <ul style="list-style-type: none"><li>64-bit/128-bit WEP</li></ul>                                                              | <ul style="list-style-type: none"><li>64-bit/128-bit WEP</li></ul>                                                              |

**Table 10. Wireless module specifications (continued)**

| Description             | Option one                                                                                                                                      | Option two                                                               | Option three                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
|                         | <ul style="list-style-type: none"> <li>AES-CCMP</li> <li>TKIP</li> </ul>                                                                        | <ul style="list-style-type: none"> <li>AES-CCMP</li> <li>TKIP</li> </ul> | <ul style="list-style-type: none"> <li>AES-CCMP</li> <li>TKIP</li> </ul> |
| Bluetooth wireless card | Bluetooth 5.2                                                                                                                                   | Bluetooth 5.0                                                            | Bluetooth 5.0                                                            |
|                         | <i>i</i> <b>NOTE:</b> 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 OptiPlex 5000 Tower.

**Table 11. Audio specifications**

| Description                | Values                                                     |
|----------------------------|------------------------------------------------------------|
| Audio controller           | Realtek ALC3246-CG                                         |
| Stereo conversion          | 24-bit DAC (Digital-to-Analog) and ADC (Analog-to-Digital) |
| Internal audio interface   | Intel HDA (high-definition audio)                          |
| External audio interface   | One universal audio jack                                   |
| Number of speakers         | One                                                        |
| Internal-speaker amplifier | Integrated in ALC3246-CG (Class-D 2 W)                     |
| External volume controls   | Keyboard shortcut controls                                 |
| Speaker output:            |                                                            |
| Average speaker output     | 2 W                                                        |
| Peak speaker output        | 2.5 W                                                      |
| Subwoofer output           | Not supported                                              |
| Microphone                 | Not supported                                              |

## Storage

This section lists the storage options on your OptiPlex 5000 Tower.

**Table 12. Storage Matrix**

| Storage                  | 1st 2.5-inch hard drive | 2nd 2.5-inch hard drive | Single 3.5-inch hard drive | Single M.2 socket | Single M.2 via Zoom 2 PCIe card |
|--------------------------|-------------------------|-------------------------|----------------------------|-------------------|---------------------------------|
| 2.5-inch hard drive      | Y                       | N                       | N                          | N                 |                                 |
| Dual 2.5-inch hard drive | Y                       | Y                       | N                          | N                 |                                 |
| 3.5-inch hard drive      | N                       | N                       | Y                          | N                 |                                 |

**Table 12. Storage Matrix (continued)**

| Storage                  |                                  |                                       |                     | 1st 2.5-inch hard drive | 2nd 2.5-inch hard drive | Single 3.5-inch hard drive | Single M.2 socket | Single M.2 via Zoom 2 PCIe card |
|--------------------------|----------------------------------|---------------------------------------|---------------------|-------------------------|-------------------------|----------------------------|-------------------|---------------------------------|
| 2.5-inch hard drive      |                                  | 3.5-inch hard drive                   |                     | Y                       | N                       | Y                          | N                 |                                 |
| 3.5-inch hard drive      |                                  | 2.5-inch hard drive                   |                     | Y                       | N                       | Y                          | N                 |                                 |
| Dual 2.5-inch hard drive |                                  | 3.5-inch hard drive                   |                     | Y                       | Y                       | Y                          | N                 |                                 |
| M.2 solid-state drive    |                                  | 3.5-inch hard drive                   |                     | N                       | N                       | Y                          | Y                 |                                 |
| M.2 solid-state drive    |                                  | 2.5-inch hard drive/solid-state drive |                     | Y                       | N                       | N                          | Y                 |                                 |
| M.2 solid-state drive    |                                  | Dual 2.5-inch hard drive              |                     | Y                       | Y                       | N                          | Y                 |                                 |
| M.2 solid-state drive    |                                  |                                       |                     | N                       | N                       | N                          | Y                 | N                               |
| Dual 2.5-inch hard drive | 3.5-inch hard drive              | M.2 solid-state drive                 |                     | Y                       | Y                       | Y                          | Y                 |                                 |
| M.2 solid-state drive    |                                  | M.2 SSD (via M.2 expansion card)      |                     | N                       | N                       | N                          | Y                 | Y                               |
| M.2 solid-state drive    | 3.5-inch hard drive              | M.2 SSD (via M.2 expansion card)      |                     | N                       | N                       | Y                          | Y                 | Y                               |
| M.2 solid-state drive    | 2.5-inch hard drive              | M.2 SSD (via M.2 expansion card)      |                     | Y                       | N                       | N                          | Y                 | Y                               |
| M.2 solid-state drive    | M.2 SSD (via M.2 expansion card) | 2.5-inch hard drive                   | 3.5-inch hard drive | Y                       | N                       | Y                          | Y                 | Y                               |

**Table 13. Storage specifications**

| Storage type                                                       | Interface type              | Capacity   |
|--------------------------------------------------------------------|-----------------------------|------------|
| 2.5-inch, 5400 RPM, hard-disk drive                                | SATA 3.0                    | Up to 2 TB |
| 2.5-inch, 7200 RPM, hard-disk drive                                | SATA 3.0                    | Up to 1 TB |
| 2.5-inch, 7200 RPM, FIPS Self Encrypting Opal 2.0, hard-disk drive | SATA 3.0                    | 500 GB     |
| 3.5-inch, 5400 RPM, hard-disk drive                                | SATA 3.0                    | 4 TB       |
| 3.5-inch, 7200 RPM, hard-disk drive                                | SATA 3.0                    | Up to 2 TB |
| M.2 2230 solid-state drive                                         | PCIe NVMe Gen4 x4           | Up to 1 TB |
| M.2 2230 Opal Self-Encrypting solid-state drive                    | PCIe NVMe Gen4 x4           | 256 GB     |
| M.2 2280 solid-state drive                                         | PCIe NVMe Gen4 x4, Class 40 | Up to 2 TB |

## Media-card reader

The following table lists the media cards supported by your OptiPlex 5000 Tower.

**Table 14. Media-card reader specifications**

| Description                                                                                                                                                                                                                           | Values                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Media-card type                                                                                                                                                                                                                       | SD card (optional)                                                                                                                                              |
| Media-cards supported                                                                                                                                                                                                                 | <ul style="list-style-type: none"><li>Secure Digital (SD)</li><li>Secure Digital High Capacity (SDHC)</li><li>Secure Digital Extended Capacity (SDXC)</li></ul> |
|  <b>NOTE:</b> The maximum capacity supported by the media-card reader varies depending on the standard of the media card installed in your computer. |                                                                                                                                                                 |

## Power ratings

The following table lists the power rating specifications of OptiPlex 5000 Tower.

**Table 15. Power ratings**

| Description                 | Option one                                                                                                                                                                  | Option two                                                                                                                                                                  | Option three                                                                                                                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                        | 240 W internal power supply unit (PSU), 85% Efficient, 80 Plus Bronze                                                                                                       | 260 W internal power supply unit (PSU), 85% Efficient, 80 Plus Bronze                                                                                                       | 400 W internal power supply unit (PSU), 92% Efficient, 80 Plus 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)     | 4.0 A                                                                                                                                                                       | 4.2 A                                                                                                                                                                       | 5.4 A                                                                                                                                                                                                            |
| Output current (continuous) | <ul style="list-style-type: none"><li>12 VA/18 A</li><li>12 VB/15 A</li></ul> Standby mode: <ul style="list-style-type: none"><li>12 VA/1.5 A</li><li>12 VB/3.3 A</li></ul> | <ul style="list-style-type: none"><li>12 VA/18 A</li><li>12 VB/16 A</li></ul> Standby mode: <ul style="list-style-type: none"><li>12 VA/1.5 A</li><li>12 VB/3.3 A</li></ul> | <ul style="list-style-type: none"><li>12 VA/18 A</li><li>12 VB/18 A</li><li>12 VC/12 A</li></ul> Standby mode: <ul style="list-style-type: none"><li>12 VA/1.5 A</li><li>12 VB/3.3 A</li><li>12 VC/0 A</li></ul> |
| Rated output voltage        | <ul style="list-style-type: none"><li>+12 VA</li><li>+12 VB</li></ul>                                                                                                       | <ul style="list-style-type: none"><li>+12 VA</li><li>+12 VB</li></ul>                                                                                                       | <ul style="list-style-type: none"><li>+12 VA</li><li>+12 VB</li><li>+12 VC</li></ul>                                                                                                                             |
| Temperature range:          |                                                                                                                                                                             |                                                                                                                                                                             |                                                                                                                                                                                                                  |
| Operating                   | 5°C-45°C (41°F-113°F)                                                                                                                                                       | 5°C-45°C (41°F-113°F)                                                                                                                                                       | 5°C-45°C (41°F-113°F)                                                                                                                                                                                            |
| Storage                     | -40°C-70°C (-40°F-158°F)                                                                                                                                                    | -40°C-70°C (-40°F-158°F)                                                                                                                                                    | -40°C-70°C (-40°F-158°F)                                                                                                                                                                                         |

## Power supply connector

The following table lists the Power supply connector specifications of your OptiPlex 5000 Tower.

**Table 16. Power supply connector**

|                          |                                                                                                                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 240 W (80 PLUS Bronze)   | <ul style="list-style-type: none"> <li>Two 4 pin connectors for processor</li> <li>One 8 pin connector for system board</li> </ul>                                                   |
| 260 W (80 PLUS Bronze)   | <ul style="list-style-type: none"> <li>Two 4 pin connectors for processor</li> <li>One 8 pin connector for system board</li> </ul>                                                   |
| 400 W (80 PLUS Platinum) | <ul style="list-style-type: none"> <li>Two 4 pin connectors for processor</li> <li>One 8 pin connector for system board</li> <li>One 2 + 6 pin connector for graphic card</li> </ul> |

## GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your OptiPlex 5000 Tower.

**Table 17. GPU—Integrated**

| Controller             | External display support          | Memory size          | Processor                                    |
|------------------------|-----------------------------------|----------------------|----------------------------------------------|
| Intel UHD Graphics 710 | Two DisplayPort 1.4a (HBR2) ports | Shared system memory | Intel Pentium Gold G7400                     |
| Intel UHD Graphics 730 | Two DisplayPort 1.4a (HBR2) ports | Shared system memory | 12 <sup>th</sup> Generation Intel Core i3/i5 |
| Intel UHD Graphics 770 | Two DisplayPort 1.4a (HBR2) ports | Shared system memory | 12 <sup>th</sup> Generation Intel Core i5/i7 |

## Multiple display support matrix

The following table lists the multiple display support matrix for your OptiPlex 5000 Tower.

**Table 18. Multiple display support matrix**

| Description              | Option one                                                                                                                                                                                                                                                                 | Option two                                                                                                                                                                                                                                                                 | Option three                                                                                                                                                                                                                                                               |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Integrated Graphics Card | Intel UHD Graphics 710                                                                                                                                                                                                                                                     | Intel UHD Graphics 730                                                                                                                                                                                                                                                     | Intel UHD Graphics 770                                                                                                                                                                                                                                                     |
| Optional Module          | <ul style="list-style-type: none"> <li>Option card with VGA (1920 x 1200 @ 60 Hz)</li> <li>Option card with DP1.4a (HBR3)(5120 x 3200 @ 60 Hz)</li> <li>Option card with HDMI 2.0b (4096 x 2160 @ 60 Hz)</li> <li>Option card with Type-C (5120 x 3200 @ 60 Hz)</li> </ul> | <ul style="list-style-type: none"> <li>Option card with VGA (1920 x 1200 @ 60 Hz)</li> <li>Option card with DP1.4a (HBR3)(5120 x 3200 @ 60 Hz)</li> <li>Option card with HDMI 2.0b (4096 x 2160 @ 60 Hz)</li> <li>Option card with Type-C (5120 x 3200 @ 60 Hz)</li> </ul> | <ul style="list-style-type: none"> <li>Option card with VGA (1920 x 1200 @ 60 Hz)</li> <li>Option card with DP1.4a (HBR3)(5120 x 3200 @ 60 Hz)</li> <li>Option card with HDMI 2.0b (4096 x 2160 @ 60 Hz)</li> <li>Option card with Type-C (5120 x 3200 @ 60 Hz)</li> </ul> |
| Supported 4K Displays    | <ul style="list-style-type: none"> <li>On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz)</li> <li>Option card with DP1.4a (HBR3)(5120 x 3200 @ 60 Hz)</li> </ul>                                                                                                      | <ul style="list-style-type: none"> <li>On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz)</li> <li>Option card with DP1.4a (HBR3)(5120 x 3200 @ 60 Hz)</li> </ul>                                                                                                      | <ul style="list-style-type: none"> <li>On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz)</li> <li>Option card with DP1.4a (HBR3)(5120 x 3200 @ 60 Hz)</li> </ul>                                                                                                      |

**Table 18. Multiple display support matrix (continued)**

| Description           | Option one                                                                                                                                                   | Option two                                                                                                                                                   | Option three                                                                                                                                                 |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | <ul style="list-style-type: none"> <li>Option card with HDMI 2.0b (4096 x 2160 @ 60 Hz)</li> <li>Option card with Type-C (5120 x 3200 @ 60 Hz)</li> </ul>    | <ul style="list-style-type: none"> <li>Option card with HDMI 2.0b (4096 x 2160 @ 60 Hz)</li> <li>Option card with Type-C (5120 x 3200 @ 60 Hz)</li> </ul>    | <ul style="list-style-type: none"> <li>Option card with HDMI 2.0b (4096 x 2160 @ 60 Hz)</li> <li>Option card with Type-C (5120 x 3200 @ 60 Hz)</li> </ul>    |
| Supported 5K Displays | <ul style="list-style-type: none"> <li>Option card with DP1.4a (HBR3)(5120 x 3200 @ 60 Hz)</li> <li>Option card with Type-C (5120 x 3200 @ 60 Hz)</li> </ul> | <ul style="list-style-type: none"> <li>Option card with DP1.4a (HBR3)(5120 x 3200 @ 60 Hz)</li> <li>Option card with Type-C (5120 x 3200 @ 60 Hz)</li> </ul> | <ul style="list-style-type: none"> <li>Option card with DP1.4a (HBR3)(5120 x 3200 @ 60 Hz)</li> <li>Option card with Type-C (5120 x 3200 @ 60 Hz)</li> </ul> |

## GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your OptiPlex 5000 Tower.

**Table 19. GPU—Discrete**

| Controller       | Memory size | Memory type |
|------------------|-------------|-------------|
| AMD Radeon 540   | 1 GB        | GDDR5       |
| AMD Radeon 550   | 2 GB        | GDDR5       |
| AMD Radeon RX640 | 4 GB        | GDDR5       |

## Multiple display support matrix

The following table lists the multiple display support matrix for your OptiPlex 5000 Tower.

**Table 20. Multiple display support matrix**

| Graphics Card    | Memory     | Ports                                                                                                              | Supported external displays with Direct Connect | Supported external displays with DP Multi-Stream | Supported 4K Displays | Supported 5K Displays | Resolution         | Total Power |
|------------------|------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------|-----------------------|--------------------|-------------|
| AMD Radeon 540   | 1 GB GDDR5 | Two DisplayPort 1.4 ports                                                                                          | 2                                               | 2                                                | 1                     | 1                     | 5120 x 2880 @60 Hz | 50 W        |
| AMD Radeon 550   | 2 GB GDDR6 | Two DisplayPort 1.4 ports                                                                                          | 2                                               | 2                                                | 1                     | 1                     | 5120 x 2880 @60 Hz | 50 W        |
| AMD Radeon RX640 | 4 GB GDDR5 | <ul style="list-style-type: none"> <li>Two Mini-DisplayPort 1.4 ports</li> <li>One DisplayPort 1.4 port</li> </ul> | 3                                               | 1                                                | 2                     | 1                     | 5120 x 2880 @60 Hz | 50 W        |

# Hardware security

The following table lists the hardware security of your OptiPlex 5000 Tower.

**Table 21. Hardware security**

| Hardware security                                                                                                |
|------------------------------------------------------------------------------------------------------------------|
| Kensington security-cable slot                                                                                   |
| Padlock ring                                                                                                     |
| Chassis lock slot support                                                                                        |
| Chassis intrusion switch                                                                                         |
| Lockable cable covers                                                                                            |
| Supply chain tamper alerts                                                                                       |
| SafelD including Trusted Platform Module (TPM) 2.0                                                               |
| Smart card keyboard (FIPS)                                                                                       |
| Microsoft Windows Device Guard and Credential Guard (Enterprise SKU)                                             |
| Microsoft Windows Bitlocker                                                                                      |
| Local hard drive data wipe through BIOS (Secure Erase)                                                           |
| Self-encrypting storage drives (Opal, FIPS)                                                                      |
| Trusted Platform Module TPM 2.0                                                                                  |
| China TPM                                                                                                        |
| Intel Secure Boot                                                                                                |
| Intel Authenticate                                                                                               |
| SafeBIOS: includes Dell Off-host BIOS Verification, BIOS Resilience, BIOS Recovery, and additional BIOS Controls |

# Environmental

The following table lists the environmental specifications of your OptiPlex 5000 Tower.

**Table 22. Environmental**

| Feature                                | Values         |
|----------------------------------------|----------------|
| Recyclable packaging                   | Yes            |
| BFR/PVC—free chassis                   | No             |
| Vertical orientation packaging support | Yes            |
| Multi-Pack packaging                   | Yes (optional) |
| Energy-Efficient Power Supply          | Standard       |
| ENV0424 compliant                      | Yes            |

 **NOTE:** Wood-based fiber packaging contains a minimum of 35% recycled content by total weight of wood-based fiber. Packaging that contains without wood-based fiber can be claimed as Not Applicable. The anticipated required criteria for EPEAT 2018.

# Regulatory compliance

The following table lists the regulatory compliance of your OptiPlex 5000 Tower.

Table 23. Regulatory compliance

| Regulatory compliance                                            |
|------------------------------------------------------------------|
| <a href="#">Product Safety, EMC and Environmental Datasheets</a> |
| <a href="#">Dell Regulatory Compliance Home page</a>             |
| <a href="#">Dell and the Environment</a>                         |

# Operating and storage environment

This table lists the operating and storage specifications of your OptiPlex 5000 Tower.

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

Table 24. Computer environment

| Description                                                                                                                                                                                                                                                                         | Operating                                                                      | Storage                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Temperature range                                                                                                                                                                                                                                                                   | 10°C-35°C (50°F-95°F)                                                          | -40°C-65°C (-40°F-149°F)                                                                |
| Relative humidity (maximum)                                                                                                                                                                                                                                                         | 20% to 80% (non-condensing) (non-condensing, Max dew point temperature = 26°C) | 0% to 95% (non-condensing) 5% to 95% (non-condensing, Max dew point temperature = 33°C) |
| Vibration (maximum)*                                                                                                                                                                                                                                                                | 0.26 GRMS random at 5 Hz-350 Hz                                                | 1.37 GRMS random at 5 Hz-350 Hz                                                         |
| Shock (maximum)                                                                                                                                                                                                                                                                     | Bottom half-sine pulse with a change in velocity of 50.8 cm/sec (20 in./sec)   | 105G half-sine pulse with a change in velocity of 133 cm/sec (52.5 in./sec)             |
| Altitude range                                                                                                                                                                                                                                                                      | -15.2 m to 3048 m (4.64 ft to 10,000 ft)                                       | -15.2 m to 10,668 m (4.64 ft to 35,000 ft)                                              |
|  <b>CAUTION:</b> Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components. |                                                                                |                                                                                         |

\* Measured using a random vibration spectrum that simulates user environment.

† Measured using a 2 ms half-sine pulse.

# 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 25. 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 <code>Contact Support</code> , and press Enter.                                                                                                                                                                                                                                                                                                                                     |
| Online help for operating system                                                                                                     | <a href="http://www.dell.com/support/windows">www.dell.com/support/windows</a><br><a href="http://www.dell.com/support/linux">www.dell.com/support/linux</a>                                                                                                                                                                                                                                                |
| Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals, and documents. | 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 <a href="http://www.dell.com/support">www.dell.com/support</a> .<br>For more information on how to find the Service Tag for your computer, see <a href="#">Locate the Service Tag on your computer</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. On the menu bar at the top of the Support page, select <b>Support &gt; Knowledge Base</b>.</li> <li>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.</li> </ol> |

## 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 about your purchase invoice, packing slip, bill, or Dell product catalog.