

# OptiPlex 5000 Micro

## 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.

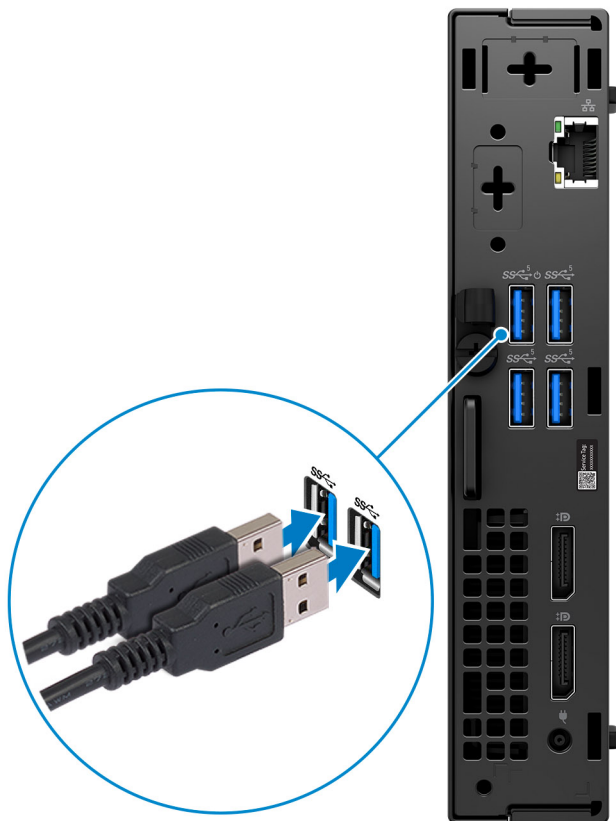
 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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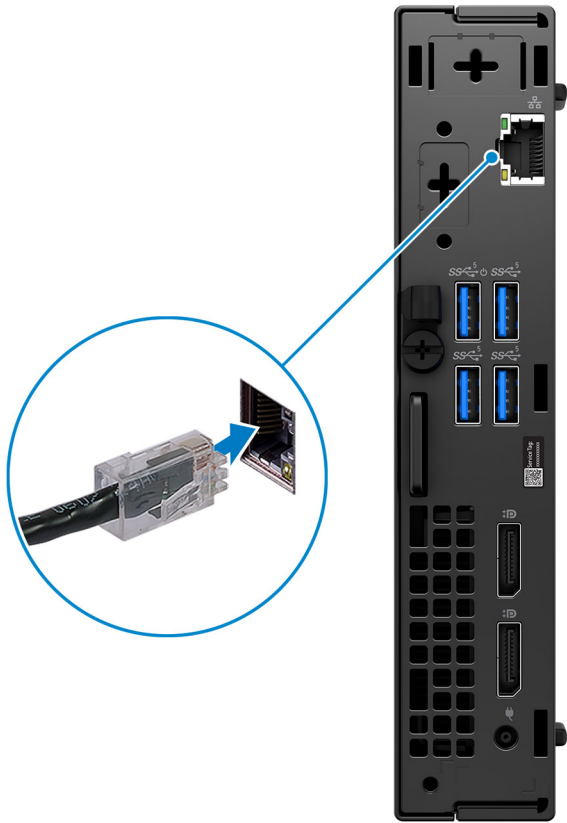
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# Set up your computer

1. Connect the keyboard and mouse.



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



3. Connect the display.



4. Connect the power cable.



5. Press the power button.






6. Finish operating system setup.

**For Ubuntu:**

Follow the on-screen instructions to complete the setup. For more information about installing and configuring Ubuntu, see the knowledge base articles [000131655](#) and [000131676](#) at [www.dell.com/support](http://www.dell.com/support).

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

**Table 1. Locate Dell apps**

Resources	Description
	<p><b>SupportAssist</b></p> <p>SupportAssist proactively and predictively identifies hardware and software issues on your computer and automates the engagement process with Dell Technical support. It addresses performance and stabilization issues, prevents security threats, monitors, and detects hardware failures. For more information, see <i>SupportAssist for Home PCs User's Guide</i> at <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 about using Dell Update, see the knowledge base article <a href="#">000149088</a> at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p>
	<p><b>Dell Digital Delivery</b></p>

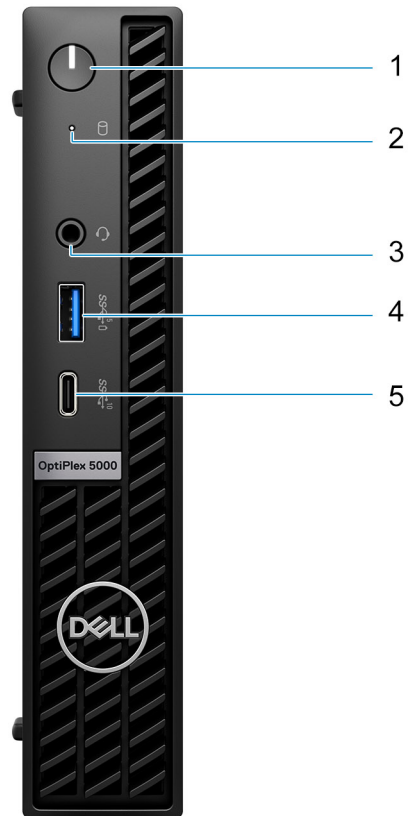
**Table 1. Locate Dell apps (continued)**

<b>Resources</b>	<b>Description</b>
	Download software applications, which are purchased but not preinstalled on your computer. For more information about using Dell Digital Delivery, see the knowledge base article <a href="https://www.dell.com/support/article/000129837">000129837</a> at <a href="http://www.dell.com/support">www.dell.com/support</a> .



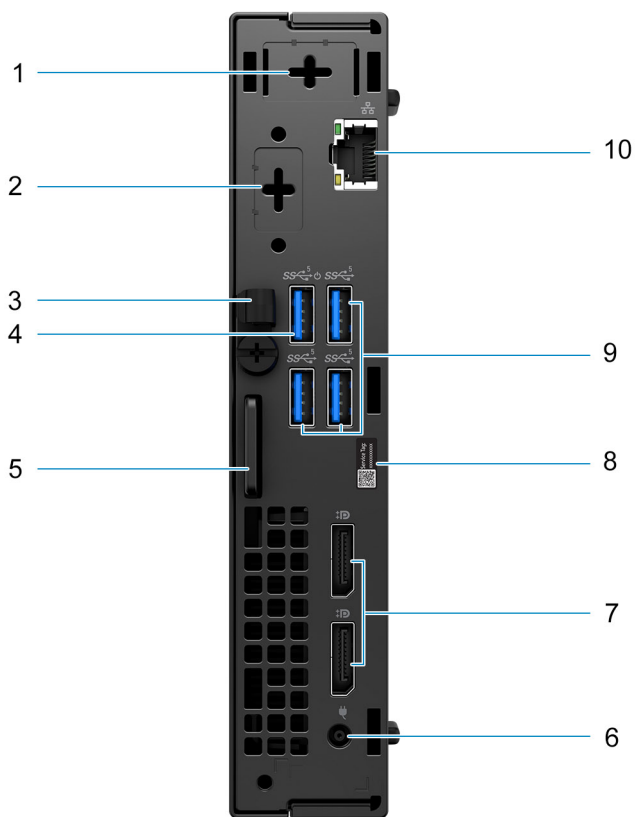
## Views of OptiPlex 5000 Micro

### Display



1. Power button with diagnostic LED
2. Hard-disk activity light
3. Universal audio jack
4. USB 3.2 Gen 1 port with PowerShare
5. USB 3.2 Gen 2x1 Type-C port

# Back




1. External antenna connector (optional)
2. One optional video port (HDMI 2.0b/Displayport 1.4a (HBR3)/VGA/PS2/serial/USB Type-C with DisplayPort Alt mode)
3. DC-in cable clip
4. USB 3.2 Gen 1 port with Smart Power On
5. Kensington security-cable slot and Padlock ring
6. Power adapter port
7. Two DisplayPort 1.4a (HBR2)
8. Service Tag label
9. Three USB 3.2 Gen 1 ports
10. RJ45 Ethernet port

# Specifications of OptiPlex 5000 Micro

## Dimensions and weight

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

**Table 2. Dimensions and weight**

Description	Values
Height	182.00 mm (7.17 in.)
Width	36.00 mm (1.42 in.)
Depth	178.00 mm (7.00 in.)
Weight  <b>NOTE:</b> The weight of your computer depends on the configuration ordered and manufacturing variability.	1.33 kg (2.94 lbs)

## Processor

The following table lists the details of the processors that are supported by your OptiPlex 5000 Micro .

**Table 3. Processor**

Description	Processor type	Processor wattage	Processor core count	Processor thread count	Processor speed	Processor cache	Integrated graphics
Option one	12 <sup>th</sup> Generation Intel Core i3-12100T	35 W	4	8	2.20 GHz to 4.10 GHz	12 MB	Intel UHD Graphics 730
Option two	12 <sup>th</sup> Generation Intel Core i3-12300T	35 W	4	8	3.30 GHz to 4.20 GHz	12 MB	Intel UHD Graphics 730
Option three	12 <sup>th</sup> Generation Intel Core i3-12400T	35 W	6	12	1.80 GHz to 4.20 GHz	18 MB	Intel UHD Graphics 730
Option four	12 <sup>th</sup> Generation Intel Core i5-12500T vPro	35 W	6	12	2.00 GHz to 4.40 GHz	18 MB	Intel UHD Graphics 770
Option five	12 <sup>th</sup> Generation Intel Core i5-12600T vPro	35 W	6	12	2.10 GHz to 4.60 GHz	18 MB	Intel UHD Graphics 770
Option six	12 <sup>th</sup> Generation	35 W	12	20	1.40 GHz to 4.70 GHz	25 MB	Intel UHD Graphics 770

**Table 3. Processor (continued)**

Description	Processor type	Processor wattage	Processor core count	Processor thread count	Processor speed	Processor cache	Integrated graphics
	Intel Core i7-12700T vPro						
Option seven	12 <sup>th</sup> Generation Intel Pentium G7400T	35 W	2	4	Up to 3.70 GHz	6 MB	Intel UHD Graphics 710

## Chipset

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

**Table 4. Chipset**

Description	Values
Chipset	Q670
Processor	12 <sup>th</sup> Generation Intel Pentium and Intel Core i3/i5/i7
DRAM bus width	64-bit
Flash EPROM	32 MB + 16 MB
PCIe bus	Up to Gen4

## Operating system

Your OptiPlex 5000 Micro supports the following operating systems:

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

**Table 5. Memory specifications**

Description	Values
Memory slots	Two-SODIMM slots
Memory type	DDR4
Memory speed	3200 MHz

**Table 5. Memory specifications (continued)**

Description	Values
Maximum memory configuration	64 GB
Minimum memory configuration	4 GB
Memory size per slot	4 GB, 8 GB, 16 GB, 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>• 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>• 64 GB, 2 x 32 GB, DDR4, 3200 MHz, dual-channel</li> </ul>

## Memory matrix

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

**Table 6. Memory matrix**

Configuration	Slot	
	SO-DIMM1	SO-DIMM2
4 GB DDR4	4 GB	
8 GB DDR4	4 GB	4 GB
8 GB DDR4	8 GB	
16 GB DDR4	8 GB	8 GB
16 GB DDR4	16 GB	
32 GB DDR4	16 GB	16 GB
32 GB DDR4	32 GB	
64 GB DDR4	32 GB	32 GB

## External ports

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

**Table 7. External ports**

Description	Values
Network port	One RJ-45 Ethernet port 10/100/1000 Mbps
USB ports	<ul style="list-style-type: none"> <li>• One USB 3.2 Gen 1 port with PowerShare (Front)</li> <li>• One USB 3.2 Gen 2x1 Type-C port (Front)</li> <li>• One USB 3.2 Gen 1 port with Smart Power on (Rear)</li> <li>• Three USB 3.2 Gen 1 ports (Rear)</li> </ul>
Audio port	One Universal audio port (front)

**Table 7. External ports (continued)**

Description	Values
Video port	<ul style="list-style-type: none"> <li>One optional port (HDMI) 2.0b/Displayport 1.4a (HBR3)/VGA/PS2/serial/USB Type-C with DisplayPort Alt mode</li> <li>Two DisplayPort 1.4a (HBR2) ports (Rear)</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>
Media-card reader	Not supported
Power-adaptor port	One DC-in port with 4.5 mm barrel
Security-cable slot	<ul style="list-style-type: none"> <li>One Kensington lock slot</li> <li>One Padlock ring</li> </ul>

## Internal slots

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

**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 SSD</li> <li>One SATA slot for 2.5-inch HDD</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>

## Ethernet

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

**Table 9. Ethernet specifications**

Description	Values
Model number	Intel Ethernet Connection 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 Micro.

**Table 10. Wireless module specifications**

Description	Option one	Option two	Option three
Model number	Intel AX211	Realtek RTL8821CE	Realtek RTL8822CE
Transfer rate	Up to 2400 Mbps	Up to 433 Mbps	Up to 433 Mbps

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

Description	Option one	Option two	Option three
Frequency bands supported	2.4 GHz/5 GHz/6 GHz <b>i</b> <b>NOTE:</b> The 6 GHz frequency is supported on computers installed with Windows 11 operating system only.	2.4 GHz/5 GHz	2.4 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/n/ac</li> <li>• MU-MIMO</li> </ul>	<ul style="list-style-type: none"> <li>• WiFi 802.11a/b/g/n/ac</li> <li>• MU-MIMO</li> </ul>
Encryption	<ul style="list-style-type: none"> <li>• 64-bit and 128-bit WEP</li> <li>• 128-bit AES-CCMP</li> <li>• TKIP</li> <li>• 256-bit AES-GCMP</li> </ul>	<ul style="list-style-type: none"> <li>• 64-bit and 128-bit WEP</li> <li>• 128-bit AES-CCMP</li> <li>• TKIP</li> </ul>	<ul style="list-style-type: none"> <li>• 64-bit and 128-bit WEP</li> <li>• 128-bit AES-CCMP</li> <li>• TKIP</li> </ul>
Bluetooth wireless card	Bluetooth 5.1	Bluetooth 5.0	Bluetooth 5.0
	<b>i</b> <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 Micro.

**Table 11. Audio specifications**

Description	Values	
Audio controller	ALC3246-CG	
Stereo conversion	Supported	
Internal audio interface	High definition audio	
External audio interface	One Universal Audio Jack (front)	
Number of speakers	One internal speaker (optional)	
Internal-speaker amplifier	Supported (audio codec integrated)	
External volume controls	Keyboard shortcut controls	
Speaker output:		
	Average speaker output	2 W
	Peak speaker output	2.5 W
Subwoofer output	Not supported	
Microphone	Dual-array microphones	

# Storage

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

**Table 12. Storage matrix**

Storage		1st 2.5-inch hard drive	1st M.2 socket	1st Bootable Device
2.5-inch hard drive		Yes		2.5-inch hard drive
M.2 solid-state drive			Yes	1st M.2 solid-state drive
M.2 solid-state drive	2.5-inch hard drive/solid-state drive	Yes	Yes	1st M.2 solid-state drive

**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, Opal Self-Encrypting hard-disk drive	SATA 3.0	500 GB
M.2 2230, Class 35 solid-state drive	PCIe NVMe Gen3 x4	Up to 1 TB
M.2 2230, Class 35, Opal Self-Encrypting solid-state drive	PCIe NVMe Gen3 x4	256 GB
M.2 2280, Class 40 solid-state drive	PCIe NVMe Gen4 x4	Up to 2 TB
M.2 2280, Class 40, Opal Self-Encrypting solid-state drive	PCIe NVMe Gen3 x4	Up to 1 TB

# Power adapter

**Table 14. Power adapter specifications**

Description	Option One	Option Two
Type	90 W (35 W CPU)	130 W (35 W CPU)
Diameter (connector)	4.5 mm x 2.9 mm	4.5 mm x 2.9 mm
Input voltage	100 VAC—240 VAC	100 VAC—240 VAC
Input frequency	50 Hz—60 Hz	50 Hz—60 Hz
Input current (maximum)	1.50 A	2.50 A
Output current (continuous)	4.62 A	6.70 A
Rated output voltage	19.50 VDC	19.50 VDC
Temperature range:		
Operating	0 °C to 40 °C (32 °F to 104 °F)	0 °C to 40 °C (32 °F to 104 °F)
Storage	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)



# GPU—Integrated

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

**Table 15. GPU—Integrated**

Controller	External display support	Memory size	Processor
Intel UHD Graphics 710	Two DisplayPort 1.4a (HBR2) ports	Shared system memory	12 <sup>th</sup> Generation Intel Pentium Gold G7400T processor
Intel UHD Graphics 730	Two DisplayPort 1.4a (HBR2) ports	Shared system memory	12 <sup>th</sup> Generation Intel Core i3-12100T, i3-12300T, and i5-12400T processors
Intel UHD Graphics 770	Two DisplayPort 1.4a (HBR2) ports	Shared system memory	12 <sup>th</sup> Generation Intel Core i5-12500T, i5-12600T, and i7-12700T processors

# Multiple display support matrix

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

**Table 16. OptiPlex 5000 Micro—Two DP1.4 (HBR2) + optional VGA/HDMI2.0/DP1.4 (HBR3)/Type-C ALT mode DP1.4 (HBR3)**

Description	Number of displays	Maximum resolution
Intel UHD 710/730/770 Graphics	1	<ul style="list-style-type: none"> <li>On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz)</li> <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>
	2	<ul style="list-style-type: none"> <li>On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz) + On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz)</li> <li>On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz) + Option card with VGA (1920x1200 @ 60 Hz)</li> <li>On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz) + Option card with DP1.4a (HBR3) (5120 x 3200 @ 60 Hz)</li> <li>On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz) + Option card with HDMI 2.0b (4096 x 2160 @ 60 Hz)</li> <li>On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz) + Option card with Type-C (5120 x 3200 @ 60 Hz)</li> </ul>
	3	<ul style="list-style-type: none"> <li>On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz) + On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz) + Option card with VGA (1920 x 1200 @ 60 Hz)</li> <li>On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz) + On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz) + Option card with DP1.4a (HBR3)(5120 x 3200 @ 60 Hz)</li> <li>On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz) + On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz) + Option card with HDMI 2.0b (4096 x 2160 @ 60 Hz)</li> <li>On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz) + On board integrated DP1.4a (HBR2)(4096 x 2304 @ 60 Hz) + Option card with Type-C (5120 x 3200 @ 60 Hz)</li> </ul>

# Hardware security

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

**Table 17. Hardware security**

Hardware security
Kensington security-cable slot
Padlock ring
Chassis lock slot support
Chassis intrusion switch
Supply chain tamper alerts
SafelD including Trusted Platform Module (TPM) 2.0
Smart card keyboard (FIPS)
Microsoft 10 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

# Environmental

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

**Table 18. Environmental**

Feature	Values
Recyclable packaging	Yes
BFR/PVC—free chassis	No
Vertical orientation packaging support	Yes
Multi-Pack packaging	Yes
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 Micro.

**Table 19. Regulatory compliance**

<b>Regulatory compliance</b>
<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 Micro.

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

**Table 20. Computer environment**

Description	Operating	Storage
Temperature range	10°C to 35°C (50°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	20% to 80% (non-condensing, Max dew point temperature = 26°C (78.8°F))	5% to 95% (non-condensing, Max dew point temperature = 33°C (91.4°F))
Vibration (maximum)*	0.26 GRMS random at 5 Hz to 350 Hz	1.37 GRMS random at 5 Hz to 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	3048 m (10,000 ft)	10,668 m (35,000 ft)

**CAUTION:** Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.

\* Measured using a random vibration spectrum that simulates 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 21. 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/linux">www.dell.com/support/linux</a> <a href="http://www.dell.com/support/windows">www.dell.com/support/windows</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> .  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.