

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.

Chapter 1: Set up your computer.....	4
Chapter 2: Views of OptiPlex 5000 Micro.....	9
Front.....	9
Back.....	10
Chapter 3: Specifications of OptiPlex 5000 Micro.....	11
Dimensions and weight.....	11
Processor.....	11
Chipset.....	12
Operating system.....	12
Memory.....	12
Memory matrix.....	13
External ports.....	13
Internal slots.....	14
Ethernet.....	14
Wireless module.....	14
Audio.....	15
Storage.....	16
Power adapter.....	16
GPU—Integrated.....	17
Multiple display support matrix.....	17
Hardware security.....	18
Environmental.....	19
Regulatory compliance.....	19
Operating and storage environment.....	19
Chapter 4: Getting help and contacting Dell.....	21

Set up your computer

1. Connect the keyboard and mouse.



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



3. Connect the display.



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.

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

Table 1. Locate Dell apps

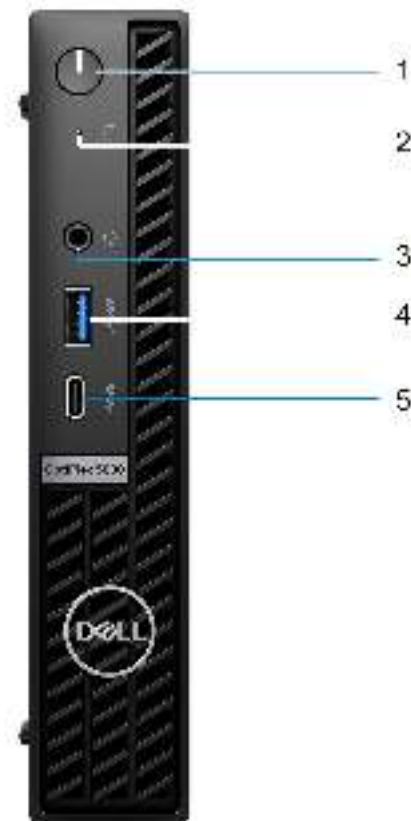
Resources	Description
	SupportAssist SupportAssist proactively and predictively identifies hardware and software issues on your computer and automates the engagement process with Dell Technical support. It addresses performance and stabilization issues, prevents security threats, monitors, and detects hardware failures. For more information, see <i>SupportAssist for Home PCs User's Guide</i> at www.dell.com/serviceabilitytools. Click SupportAssist and then, click SupportAssist for Home PCs. NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.
	Dell Update 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 000149088 at www.dell.com/support.
	Dell Digital Delivery

Table 1. Locate Dell apps (continued)

Resources	Description
	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 000129837 at www.dell.com/support .

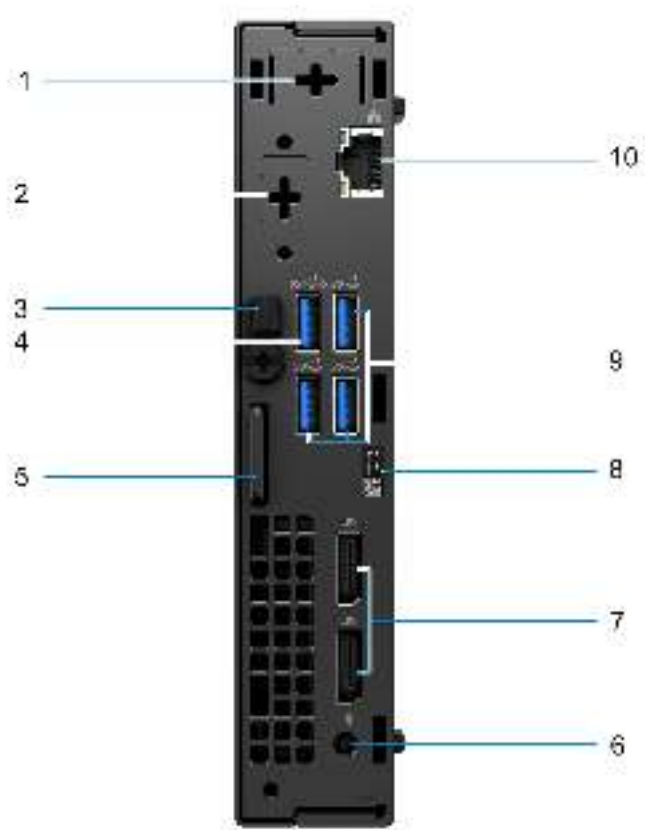
Views of OptiPlex 5000 Micro

Front



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
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. 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  NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.	0.94 kg (2.06 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 th 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 th 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 th 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 th 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 th 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 th 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 th 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 th 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	• 4 GB, 1 x 4 GB, DDR4, 3200 MHz, single-channel • 8 GB, 1 x 8 GB, DDR4, 3200 MHz, single-channel • 8 GB, 2 x 4 GB, DDR4, 3200 MHz, dual-channel • 16 GB, 1 x 16 GB, DDR4, 3200 MHz, single-channel • 16 GB, 2 x 8 GB, DDR4, 3200 MHz, dual-channel • 32 GB, 1 x 32 GB, DDR4, 3200 MHz, single-channel • 32 GB, 2 x 16 GB, DDR4, 3200 MHz, dual-channel • 64 GB, 2 x 32 GB, DDR4, 3200 MHz, dual-channel

Memory matrix

The following table lists the memory configurations supported for 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	• One USB 3.2 Gen 1 port with PowerShare (Front) • One USB 3.2 Gen 2x1 Type-C port (Front) • One USB 3.2 Gen 1 port with Smart Power on (Rear) • Three USB 3.2 Gen 1 ports (Rear)
Audio port	One Universal audio port (front)

Table 7. External ports (continued)

Description	Values
Video port	- One optional port (HDMI) 2.0b/Displayport 1.4a (HBR3)/VGA/PS2/serial/USB Type-C with DisplayPort Alt mode - Two DisplayPort 1.4a (HBR2) (Rear)
Media-card reader	Not supported
Power-adaptor port	One DC-in port with 4.5 mm barrel
Security-cable slot	- One Kensington lock slot - One Padlock ring

Internal slots

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

Table 8. Internal slots

Description	Values
M.2	- One M.2 2230 slot for WiFi and Bluetooth card - One M.2 2230/2280 slot for SSD - One SATA slot for 2.5-inch HDD  NOTE: To learn more about the features of different types of M.2 cards, search in the Knowledge Base Resource at www.dell.com/support.

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
Frequency bands supported	2.4 GHz/5 GHz/6 GHz	2.4 GHz/5 GHz	2.4 GHz/5 GHz

Table 10. Wireless module specifications (continued)

Description	Option one	Option two	Option three
	 NOTE: The 6 GHz frequency is supported on computers installed with Windows 11 operating system only.		
Wireless standards	• WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) • Wi-Fi 6E (WiFi 802.11ax)	• WiFi 802.11a/b/g/n/ac • MU-MIMO	• WiFi 802.11a/b/g/n/ac • MU-MIMO
Encryption	• 64-bit and 128-bit WEP • 128-bit AES-CCMP • TKIP • 256-bit AES-GCMP	• 64-bit and 128-bit WEP • 128-bit AES-CCMP • TKIP	• 64-bit and 128-bit WEP • 128-bit AES-CCMP • TKIP
Bluetooth	Bluetooth 5.1	Bluetooth 5.0	Bluetooth 5.0

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 1.4 ports	Shared system memory	12 th Generation Intel Pentium Gold G7400T processor
Intel UHD Graphics 730	Two DisplayPort 1.4 ports	Shared system memory	12 th Generation Intel Core i3-12100T, i3-12300T, and i5-12400T processors
Intel UHD Graphics 770	Two DisplayPort 1.4 ports	Shared system memory	12 th 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	- On board integrated DP1.4 (4096x2304 @ 60 Hz) - Option card with VGA (1920x1200 @ 60 Hz) - Option card with DP1.4 (5120x3200 @ 60 Hz) - Option card with HDMI 2.0 (4096x2160 @ 60 Hz) - Option card with Type-C (5120x3200 @ 60 Hz)
	2	- On board integrated DP1.4 (4096x2304 @ 60 Hz) + On board integrated DP1.4(4096x2304 @ 60 Hz) - On board integrated DP1.4 (4096x2304 @ 60 Hz) + Option card with VGA (1920x1200 @ 60 Hz) - On board integrated DP1.4 (4096x2304 @ 60 Hz) + Option card with DP1.4 (5120x3200 @ 60 Hz) - On board integrated DP1.4 (4096x2304 @ 60 Hz) + Option card with HDMI 2.0 (4096x2160 @ 60 Hz) - On board integrated DP1.4 (4096x2304 @ 60 Hz) + Option card with Type-C (5120x3200 @ 60 Hz)
	3	- On board integrated DP1.4 (4096x2304 @ 60 Hz) + On board integrated DP1.4(4096x2304 @ 60 Hz) + Option card with VGA (1920x1200 @ 60 Hz) - On board integrated DP1.4 (4096x2304 @ 60 Hz) + On board integrated DP1.4(4096x2304 @ 60 Hz) + Option card with DP1.4 (5120x3200 @ 60 Hz) - On board integrated DP1.4 (4096x2304 @ 60 Hz) + On board integrated DP1.4(4096x2304 @ 60 Hz) + Option card with HDMI 2.0 (4096x2160 @ 60 Hz) - On board integrated DP1.4 (4096x2304 @ 60 Hz) + On board integrated DP1.4 (4096x2304 @ 60 Hz) + Option card with Type-C (5120x3200 @ 60 Hz)

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

Description	Number of displays	Maximum resolution
	4	- On board integrated DP1.4 (4096x2304 @ 60 Hz) + On board integrated DP1.4(4096x2304 @ 60 Hz) + On board integrated DP1.4 (4096x2304 @ 60 Hz) + Option card with VGA (1920x1200 @ 60 Hz) - On board integrated DP1.4 (4096x2304 @ 60 Hz) + On board integrated DP1.4(4096x2304 @ 60 Hz) + On board integrated DP1.4 (4096x2304 @ 60 Hz) + Option card with DP1.4 (5120x3200 @ 60 Hz) - On board integrated DP1.4 (4096x2304 @ 60 Hz) + On board integrated DP1.4(4096x2304 @ 60 Hz) + On board integrated DP1.4 (4096x2304 @ 60 Hz) + Option card with HDMI2.0 (4096x2160 @ 60 Hz) - On board integrated DP1.4 (4096x2304 @ 60 Hz) + On board integrated DP1.4(4096x2304 @ 60 Hz) + On board integrated DP1.4 (4096x2304 @ 60 Hz) + Option card with Type-C (5120x3200 @ 60 Hz)

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

Regulatory compliance
EPEAT registered configurations available
ENERGY STAR compliant configurations available
TCO 8.0 certified configurations available
US CEC MEPS compliant configurations available
Australia and New Zealand MEPS compliant configurations available
CEL
WEEE
Japan Energy Law
South Korea E-standby
EU RoHS
China RoHS

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	0°C to 35°C (32°F to 95°F)	-40°C to 65°C (-40°F to 149°F)

Table 20. Computer environment (continued)

Description	Operating	Storage
Relative humidity (maximum)	20% to 80% (non-condensing, Max dew point temperature = 26°C)	5% to 95% (non-condensing, Max dew point temperature = 33°C)
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	www.dell.com
My Dell app	
Tips	
Contact Support	In Windows search, type <code>Contact Support</code> , and press Enter.
Online help for operating system	www.dell.com/support/linux
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 www.dell.com/support. For more information on how to find the Service Tag for your computer, see Locate the Service Tag on your computer.
Dell knowledge base articles for a variety of computer concerns	1. Go to www.dell.com/support. 2. On the menu bar at the top of the Support page, select Support > Knowledge Base. 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.

Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see 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.