

OptiPlex 5090 Micro Form Factor

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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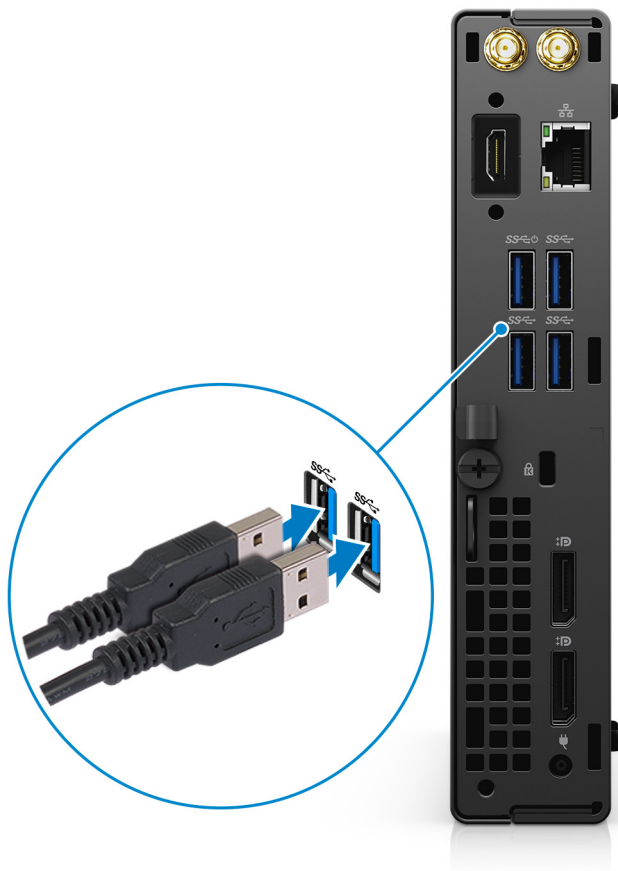
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Set up your OptiPlex 5090 Micro

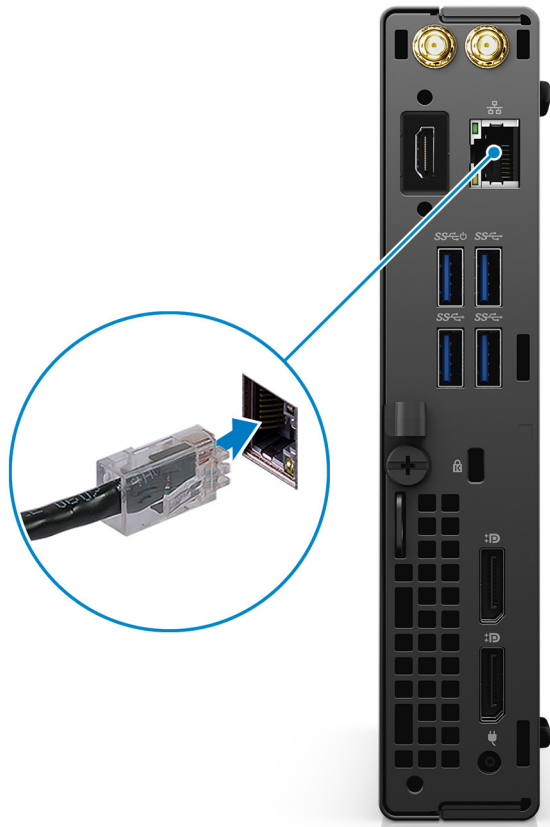
The images in this document may differ from your computer depending on the configuration you ordered.

Steps

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 Windows setup.

Follow the on-screen instructions to complete the setup. When setting up, Dell Technologies recommends:

- 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






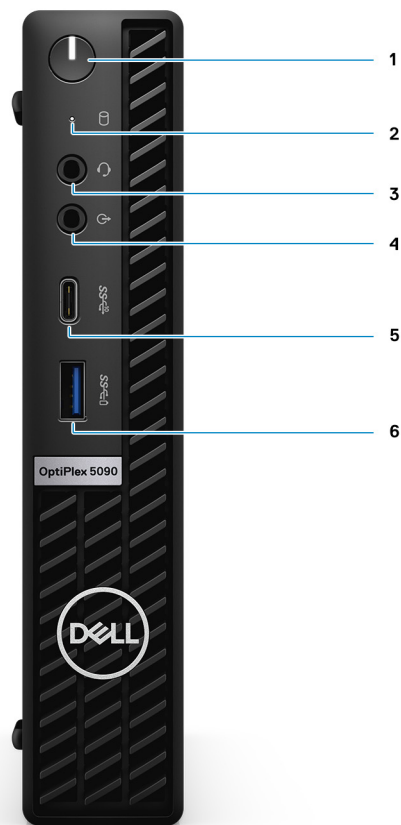
| Dell apps | Details |
|---|--|
|  | <p>Dell Product Registration Register your computer with Dell.</p> |
|  | <p>Dell Help & Support Access help and support for your computer.</p> |

Table 1. Locate Dell apps (continued)

| Dell apps | Details |
|--|---|
|  | <p>SupportAssist</p> <p>SupportAssist is the smart technology that keeps your computer running at its best by optimizing settings, detecting issues, removing viruses and notifies when you must make system updates. SupportAssist proactively checks the health of your system's hardware and software. When an issue is detected, the necessary system state information is sent to Dell to begin troubleshooting. SupportAssist is preinstalled on most of the Dell devices running Windows operating system. For more information, see SupportAssist for Business PCs User's Guide on www.dell.com/serviceabilitytools.</p> |
|  | <p>Dell Update</p> <p>Updates your computer with critical fixes and important device drivers as they become available.</p> |
|  | <p>Dell Digital Delivery</p> <p>Download software applications including software that is purchased but not preinstalled on your computer.</p> |

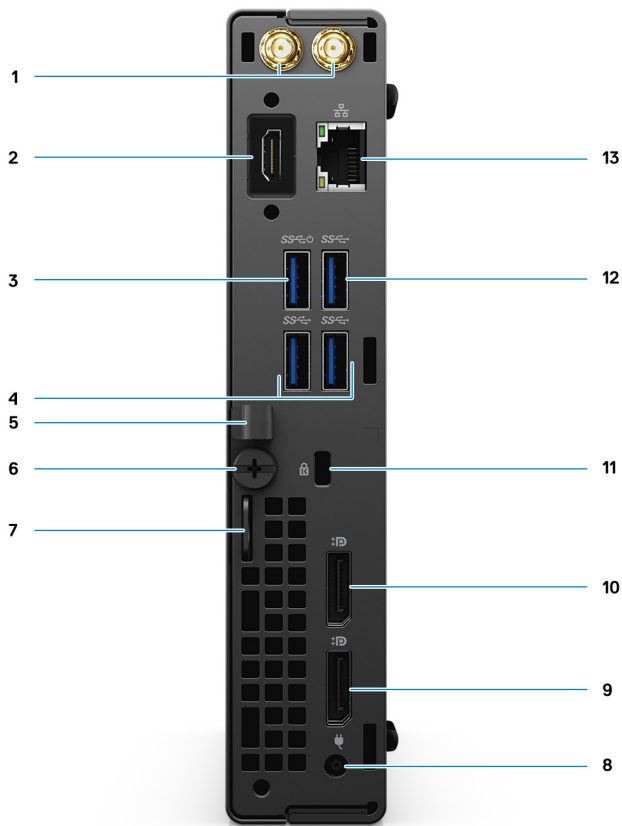
Views of OptiPlex 5090 Tower

Front



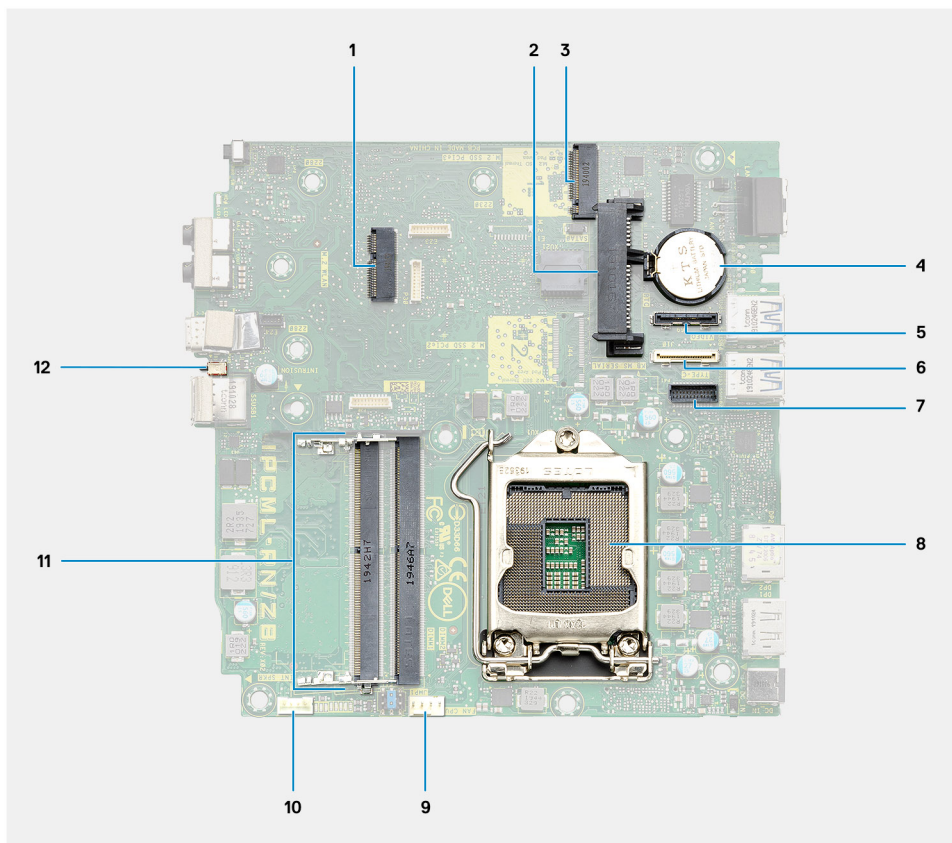
1. Power button with diagnostic LED
2. Hard-disk activity light
3. Universal audio jack port
4. Re-tasking Line-in/Line out audio port
5. USB 3.2 Gen 2x1 Type-C port
6. USB 3.2 Gen 1 Type-A port with PowerShare

Back



1. External antenna connector
2. Serial/Video port with Serial port/PS2 port/VGA port/DisplayPort 1.4 port/HDMI 2.0 Port/USB 3.2 Gen2 Type-C Port with DP Alt-mode (optional)
3. USB 3.2 Gen 1 Type-A port with Smart Power on
4. Two USB 3.2 Gen 1 Type-A ports
5. DC-in cable holder
6. Thumbscrew
7. Padlock loop
8. Power connector port
9. DisplayPort 1.4
10. DisplayPort 1.4
11. Wedge-shaped lock slot
12. USB 3.2 Gen 1 Type-A port
13. RJ45 Ethernet port

System board layout




1. M.2 WLAN connector
2. 2.5-inch hard-drive connector
3. M.2 SSD PCIe connector
4. Coin-cell battery
5. Optional video connector (VGA Port/DisplayPort 1.4 Port/HDMI 2.0b Port)
6. Optional connector (USB 3.2 Gen 2 Type-C Port)
7. Optional Keyboard and mouse serial port connector
8. Processor socket
9. CPU Fan connector
10. Internal speaker connector
11. Memory slots
12. Intrusion switch

Specifications of OptiPlex 5090 Micro

Dimensions and weight

The following table lists the height, width, depth, and weight of your OptiPlex 5090 Micro.

Table 2. Dimensions and weight

| Description | Values |
|--|----------------------|
| Height: | |
| Front height | 182.00 mm (7.16 in.) |
| Rear height | 182.00 mm (7.16 in.) |
| Width | 178.50 mm (7.02 in.) |
| Depth | 36.00 mm (1.42 in.) |
| Weight | 1.17 kg (2.58 lb) |
|  NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability. | |

Processor

The following table lists the details of the processors that are supported by your OptiPlex 5090 Micro .


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

Table 3. Processor

| Processor type | Processor wattage | Processor core count | Processor thread count | Processor speed | Processor cache | Integrated graphics |
|--|-------------------|----------------------|------------------------|--------------------|-----------------|------------------------|
| 10 th Generation Intel Core i3-10105T | 35 W | 4 | 8 | 3.0 GHz to 3.9 GHz | 6 MB | Intel UHD Graphics 630 |
| 10 th Generation Intel Core i3-10305T | 35 W | 4 | 8 | 3.0 GHz to 4.0 GHz | 8 MB | Intel UHD Graphics 630 |
| 10 th Generation Intel Core i5-10400T | 35 W | 6 | 12 | 2.0 GHz to 3.6 GHz | 12 MB | Intel UHD Graphics 630 |
| 10 th Generation Intel Core i5-10500T | 35 W | 6 | 12 | 2.3 GHz to 3.8 GHz | 12 MB | Intel UHD Graphics 630 |
| 10 th Generation Intel Core i5-10600T | 35 W | 6 | 12 | 2.4 GHz to 4.0 GHz | 12 MB | Intel UHD Graphics 630 |

Table 3. Processor (continued)

| Processor type | Processor wattage | Processor core count | Processor thread count | Processor speed | Processor cache | Integrated graphics |
|--|-------------------|----------------------|------------------------|--------------------|-----------------|------------------------|
| 10 th Generation Intel Core i7-10700T | 35 W | 8 | 16 | 2.0 GHz to 4.5 GHz | 16 MB | Intel UHD Graphics 630 |
| 10 th Generation Intel Pentium G6405T | 35 W | 2 | 4 | 3.50 GHz | 4 MB | Intel UHD Graphics 630 |
| 10 th Generation Intel Pentium G6505T | 35 W | 2 | 4 | 3.60 GHz | 12 MB | Intel UHD Graphics 630 |
| 11 th Generation Intel Core i5-11400T | 35 W | 6 | 12 | 1.3 GHz to 3.7 GHz | 12 MB | Intel UHD Graphics 730 |
| 11 th Generation Intel Core i5-11500T | 35 W | 6 | 12 | 1.5 GHz to 3.9 GHz | 12 MB | Intel UHD Graphics 750 |
| 11 th Generation Intel Core i5-11600T | 35 W | 6 | 12 | 1.7 GHz to 4.1 GHz | 12 MB | Intel UHD Graphics 750 |
| 11 th Generation Intel Core i7-11700T | 35 W | 8 | 16 | 1.4 GHz to 4.6 GHz | 16 MB | Intel UHD Graphics 750 |

Chipset

The following table lists the details of the chipset supported by your OptiPlex 5090 Micro

Table 4. Chipset

| Description | Option one | Option two |
|----------------|---|--|
| Processors | 10 th Generation Intel Core i3/i5/i7 and Intel Pentium | 11 th Generation Intel Core i5/i7 |
| Chipset | Intel Q570 | Intel Q570 |
| DRAM bus width | 64-bit (for single channel) | 64-bit (for single channel) |
| Flash EPROM | 32 MB | 32 MB |
| PCIe bus | Up to Gen 3.0 | Up to Gen 3.0 |

Operating system

Your OptiPlex 5090 Micro supports the following operating systems:

- Windows 10 Home, 64-bit
- Windows 10 IoT Enterprise 2019 LTSC (OEM only)
- Windows 10 Pro, 64-bit
- Windows 10 Pro Education, 64-bit
- Kylin Linux Desktop version 10.1 (China only)
- Ubuntu Linux 20.04 LTS, 64-bit

- Windows 10 CMIT Government Edition 64-bit (China only)

Memory

The following table lists the memory specifications of your OptiPlex 5090 Micro.

Table 5. Memory specifications

| Description | Values |
|---------------------------------|---|
| Memory slots | Two DIMM slots |
| Memory type | DDR4 |
| Memory speed | 2666/2933/3200 MHz |
| 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"> • 4 GB, 1 x 4 GB, DDR4, 2666 MHz for 10th Generation Intel Core i5, 2933 MHz for 10th Generation Intel Core i7/i9, 3200 MHz for 11th Generation Intel Core i5/i7/i9 processors • 8 GB, 1 x 8 GB, DDR4, 2666 MHz for 10th Generation Intel Core i5, 2933 MHz for 10th Generation Intel Core i7/i9, 3200 MHz for 11th Generation Intel Core i5/i7/i9 processors • 8 GB, 2 x 4 GB, DDR4, 2666 MHz for 10th Generation Intel Core i5, 2933 MHz for 10th Generation Intel Core i7/i9, 3200 MHz for 11th Generation Intel Core i5/i7/i9 processors • 16 GB, 1 x 16 GB, DDR4, 2666 MHz for 10th Generation Intel Core i5, 2933 MHz for 10th Generation Intel Core i7/i9, 3200 MHz for 11th Generation Intel Core i5/i7/i9 processors • 16 GB, 2 x 8 GB, DDR4, 2666 MHz for 10th Generation Intel Core i5, 2933 MHz for 10th Generation Intel Core i7/i9, 3200 MHz for 11th Generation Intel Core i5/i7/i9 processors • 32 GB, 1 x 32 GB, DDR4, 2666 MHz for 10th Generation Intel Core i5, 2933 MHz for 10th Generation Intel Core i7/i9, 3200 MHz for 11th Generation Intel Core i5/i7/i9 processors • 32 GB, 2 x 16 GB, DDR4, 2666 MHz for 10th Generation Intel Core i5, 2933 MHz for 10th Generation Intel Core i7/i9, 3200 MHz for 11th Generation Intel Core i5/i7/i9 processors • 64 GB, 2 x 32 GB, DDR4, 2666 MHz for 10th Generation Intel Core i5, 2933 MHz for 10th Generation Intel Core i7/i9, 3200 MHz for 11th Generation Intel Core i5/i7/i9 processors |

Memory configuration matrix

Table 6. Memory configuration matrix

| Configuration | Slot | |
|---------------|-------|-------|
| | DIMM1 | 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 |

Intel Optane Memory H10 with Solid State Storage (optional)

Intel Optane Memory technology utilizes 3D XPoint memory technology and functions as a non-volatile storage cache/accelerator and/or storage device depending on the Intel Optane Memory installed in your computer.

Intel Optane Memory H10 with Solid State Storage functions as both a non-volatile storage cache/accelerator (enabling enhanced read/write speeds for hard-drive storage) and a solid-state storage solution. It neither replaces nor adds to the memory (RAM) installed on your computer.

Table 7. Intel Optane Memory H10 with Solid State Storage specifications

| Description | Values |
|--------------------------------|---|
| Interface | PCIe 3 x4 NVMe <ul style="list-style-type: none"> One PCIe 3 x2 for Optane memory One PCIe 3 x2 for solid-state storage |
| Connector | M.2 |
| Form factor | 2280 |
| Capacity (Intel Optane memory) | Up to 32 GB |
| Capacity (solid-state storage) | Up to 512 GB |

NOTE: Intel Optane Memory H10 with Solid State Storage is supported on computers that meet the following requirements:

- 9th Generation or higher Intel Core i3/i5/i7 processors
- Windows 10 64-bit version or higher (Anniversary Update)
- Intel Rapid Storage Technology driver version 15.9.1.1018 or higher

External ports

Table 8. External ports

| Description | Values |
|--------------------|--|
| Network port/slots | Rear <ul style="list-style-type: none"> One RJ45 Ethernet port |


Table 8. External ports (continued)

| Description | Values |
|---------------------|---|
| USB ports | <p>Front</p> <ul style="list-style-type: none"> One USB 3.2 Gen 2x1 Type-C port One USB 3.2 Gen 1 port with power share <p>Rear</p> <ul style="list-style-type: none"> One USB 3.2 Gen 1 port One USB 3.2 Gen 1 port with smart power on Two USB 3.2 Gen 1 ports |
| Audio port | <p>Front</p> <ul style="list-style-type: none"> One Universal audio jack One re-tasking Line out/Line in audio port |
| Video port/ports | <p>Rear</p> <ul style="list-style-type: none"> One Serial/Video port with Serial/Serial+PS2 port/VGA port/DisplayPort 1.4 port/HDMI 2.0 Port/USB 3.2 Gen2 Type-C Port with Alt-mode (optional) Two DisplayPort 1.4 ports |
| Media-card reader | N/A |
| Power-adaptor port | <p>Rear</p> <ul style="list-style-type: none"> DC-in power input: 4.5 mm barrel type |
| Security-cable slot | <p>Rear</p> <ul style="list-style-type: none"> One Kensington security-cable slot One padlock loop lock |

Internal slots

The following table lists the internal slots of your OptiPlex 5090 Micro.

Table 9. Internal slots

| Description | Values |
|-------------|--|
| M.2 | <ul style="list-style-type: none"> One M.2 2230 slot for WiFi and Bluetooth card One M.2 2230/2280 slot for SSD/Intel Optane <p> NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article 000144170 at www.dell.com/support.</p> |

Communications

Ethernet

Table 10. Ethernet specifications

| Description | Values |
|---------------|------------------|
| Model number | Intel i219-LM |
| Transfer rate | 10/100/1000 Mbps |

Wireless module

Table 11. Wireless module specifications

| Description | Values | | |
|---------------------------|--|--|--|
| Model number | Qualcomm QCA61x4a | Qualcomm QCA9377 | Intel AX201 |
| Transfer rate | Up to 867 Mbps | Up to 433 Mbps | Up to 2.40 Gbps |
| Frequency bands supported | 2.4 GHz/5 GHz | 2.40 GHz/5 GHz | 2.4 GHz/5 GHz |
| Wireless standards | 802.11ac | 802.11ac | Wi-Fi 6 (WiFi 802.11ax) |
| Encryption | <ul style="list-style-type: none"> 64-bit and 128-bit WEP 128-bit AES-CCMP TKIP | <ul style="list-style-type: none"> 64-bit and 128-bit WEP 128-bit AES-CCMP TKIP | <ul style="list-style-type: none"> 64-bit and 128-bit WEP 128-bit AES-CCMP TKIP |
| Bluetooth | 5.0 | 5.0 | 5.2 |

Audio

The following table lists the audio specifications of your OptiPlex 5090 Micro.

Table 12. Audio specifications

| Description | Values |
|--------------------------|--|
| Audio type | 4 Channel High Definition Audio |
| Audio controller | Realtek ALC3246 |
| Internal audio interface | Intel HDA (high-definition audio) |
| External audio interface | <ul style="list-style-type: none"> One Universal Audio Jack (front) One Line-out audio port with re-tasking to Line-in(rear) |

Storage

This section lists the storage options on your OptiPlex 5090 Micro.

Your computer supports one of the following configurations:

Table 13. Storage Matrix

| Storage | | 1st 2.5-inch hard drive | Single M.2 socket | 1st Bootable Device |
|----------------------------|---------------------------------------|-------------------------|-------------------|---------------------------|
| 2.5-inch hard drive | | Y | N | 2.5-inch hard drive |
| M.2 solid-state drive | | N | Y | M.2 solid-state drive |
| Dual M.2 solid-state drive | | N | Y | 1st M.2 solid-state drive |
| M.2 solid-state drive | 2.5-inch hard drive/solid-state drive | N | Y | M.2 solid-state drive |

Table 13. Storage Matrix (continued)

| Storage | | 1st 2.5-inch hard drive | Single M.2 socket | 1st Bootable Device |
|------------------|---------------------|-------------------------|-------------------|---------------------|
| M.2 Intel Optane | 2.5-inch hard drive | Y | Y | 2.5-inch hard drive |

Table 14. 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 | Up to 500 GB |
| M.2 2230 solid-state drive | PCIe Gen 3x4 NVMe, Class 35 | Up to 512 GB |
| M.2 2280 solid-state drive | PCIe Gen 3x4 NVMe, Class 40 | Up to 1 TB |
| M.2 2280 solid-state drive | PCIe Gen 4x4 NVMe, Class 40 | Up to 2 TB |
| M.2 2280 Opal Self-Encrypting solid-state drive | PCIe Gen 3x4 NVMe, Class 40 | Up to 1 TB |

Hard drive preloaded bracket matrix

Table 15. HDD preloaded bracket cable

| | |
|------------------------|----|
| 3.5-inch Caddy/Bracket | No |
| 2.5-inch Caddy/Bracket | No |

Power adapter

Table 16. Power adapter specifications

| Description | Values | |
|-----------------------------|---------------------------------|---------------------------------|
| 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 5090 Micro.

Table 17. GPU—Integrated

| Controller | External display support | Memory size | Processor |
|----------------------------|---------------------------|----------------------|---|
| Intel UHD Graphics 630 | Two DisplayPort 1.4 ports | Shared system memory | 10 th Generation Intel Core i3/i5/i7 and Intel Pentium |
| Intel UHD Graphics 730/750 | Two DisplayPort 1.4 ports | Shared system memory | 11 th Generation Intel Core i5/i7 |

Hardware Security

Table 18. Hardware Security

| |
|---|
| One Kensington security-cable slot |
| One Padlock loop |
| Chassis intrusion switch |
| SafelID 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 |
| SafeBIOS: includes Dell Off-host BIOS Verification, BIOS Resilience, BIOS Recovery, and additional BIOS Controls |
| Physical Security Options: Chassis lock slot support, Chassis Intrusion Switch, Lockable Cable Covers, Supply chain tamper alerts |

Environmental

Table 19. Environmental specifications

| Feature | OptiPlex 5090 Micro |
|-------------------------------|--------------------------|
| Recyclable packaging | Yes |
| BFR/PVC—free chassis | No |
| MultiPack packaging | Yes (US only) (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.

Energy Star, EPEAT and Trusted Platform Module (TPM)

Table 20. Energy Star, EPEAT and TPM

| Features | Specifications |
|--|--|
| Energy Star 8.0 | Compliant configurations available |
| EPEAT | Gold and Silver compliant configurations available |
| Trusted Platform Module (TPM) 2.0 ^{1,2} | Integrated on system board |
| Firmware-TPM (Discrete TPM disabled) | Optional |

NOTE:

¹TPM 2.0 is FIPS 140-2 certified.

²TPM is not available in all countries.

Operating and storage environment

This table lists the operating and storage specifications of your OptiPlex 5090 Micro.

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

Table 21. 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, 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 when the hard drive is in use.

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 22. Self-help resources

| Self-help resources | Resource location |
|---|--|
| Information about Dell products and services | www.dell.com |
| My Dell |  |
| Tips |  |
| Contact Support | In Windows search, type <code>Contact Support</code> , and press Enter. |
| Online help for operating system | www.dell.com/support/windows 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 | <ol style="list-style-type: none"> 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.