



DELL Inspiron 3910 Business Desktop Computer User Guide

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Inspiron 3910 Business Desktop Computer User Guide

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Inspiron 3910 Business Desktop Computer

Inspiron 3910

Setup and Specifications

Regulatory Model: D32M

Regulatory Type: D32M002

September 2022

Rev. A02

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.



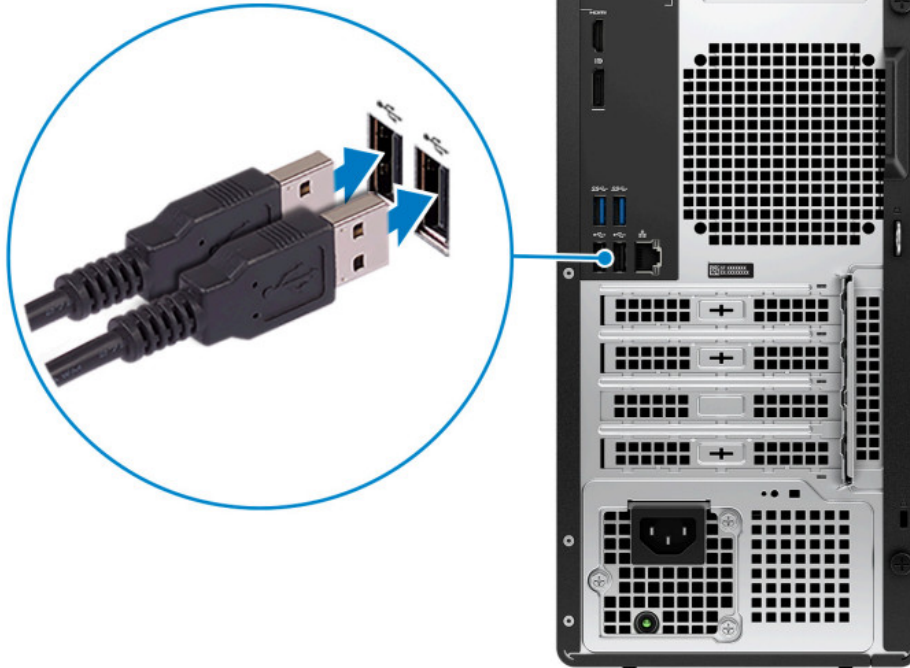
WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

Set up your computer

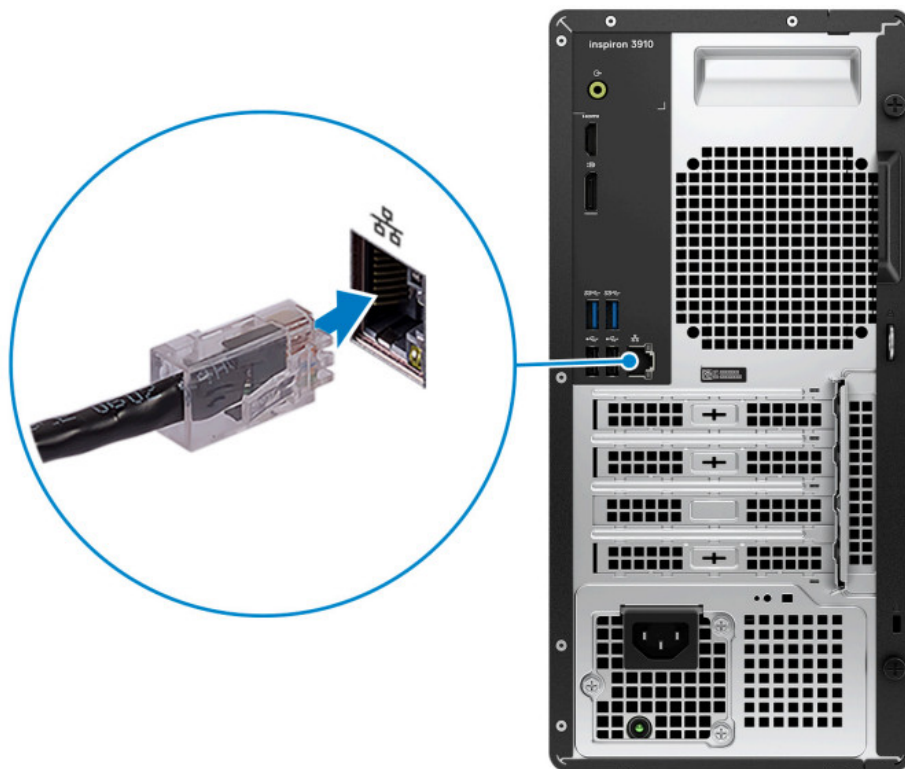


NOTE: The images in this document may differ from your computer depending on the configuration you ordered.

1. Connect the keyboard and mouse to the USB ports on the computer. If you have a wireless keyboard and mouse, see the documentation that shipped with the wireless keyboard and mouse for instructions.



2. Connect to your network using an Ethernet cable. Alternatively, connect to an available wireless network when setting up the operating system.

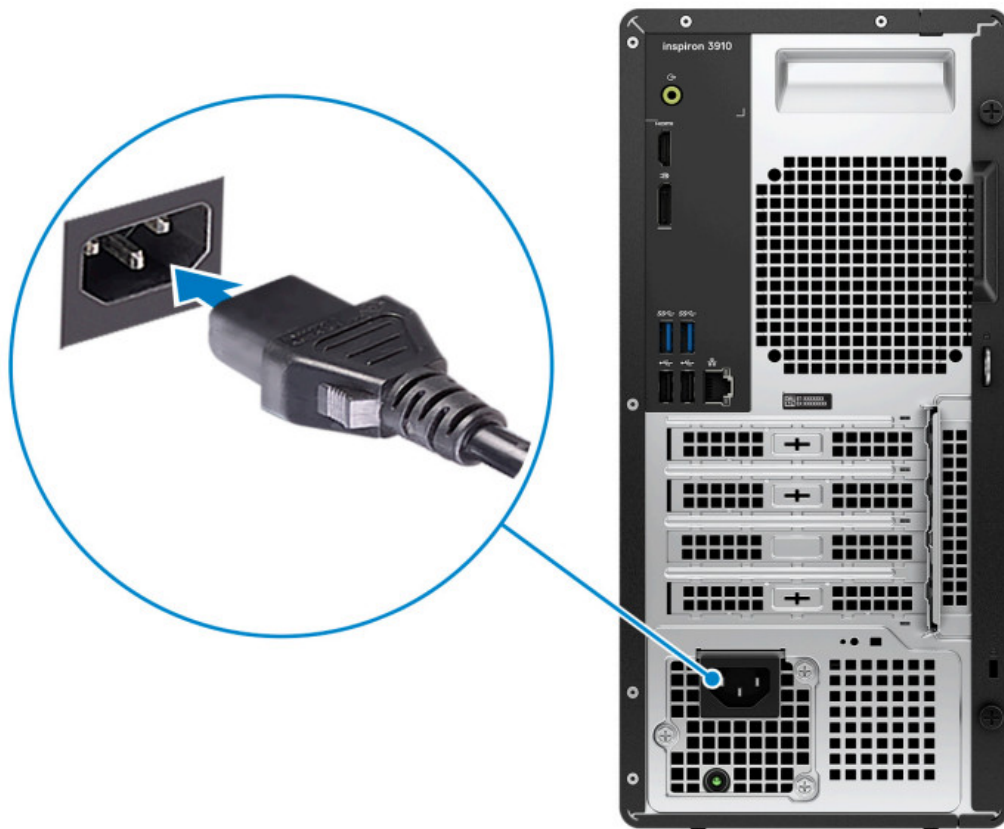


3. Connect the display. For more information about setting up the display, see the documentation that is shipped with your display.



i NOTE: The location to connect the display cable can vary if your computer has a discrete graphics card installed. For optimal graphics performance, ensure to connect the display cable to the graphics card if there is one installed.

4. Connect the power cable to the computer and then connect it to the wall outlet.



5. Press the power button at the front of the computer to turn it on. If required, press the power button on the display to turn it on.



i NOTE: For instructions on how to connect speakers, a printer, and other accessories, see Me and My Dell at www.dell.com/manuals.

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.

i 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.

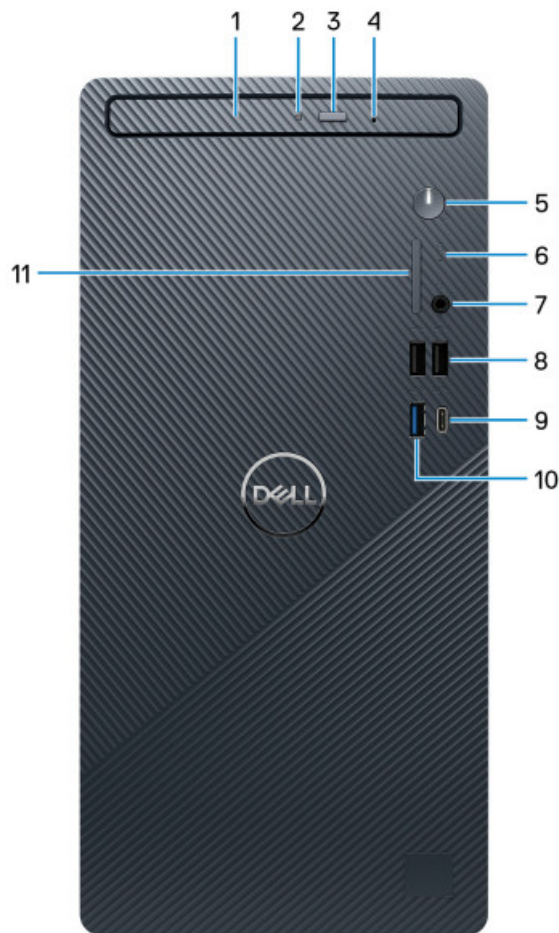
7. Locate and use Dell apps from the Windows Start menu—Recommended.

Table 1. Locate Dell apps

| Resources | Description |
|---|--|
|  | <p>My Dell</p> <p>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.</p> |
|  | <p>SupportAssist</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 SupportAssist for Home PCs User's Guide at www.dell.com/serviceabilitytools. Click SupportAssist and then, click SupportAssist for Home PCs.</p> <p> NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p> |
|  | <p>Dell Update</p> <p>Updates your computer with critical fixes and the latest device drivers as they become available. For more information on using Dell Update, search in the Knowledge Base Resource at www.dell.com/support.</p> |
|  | <p>Dell Digital Delivery</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 www.dell.com/support.</p> |

Views of Inspiron 3910

Front



1. Slim optical drive (optional)

The optical drive reads from and writes to CDs and DVDs.

2. Optical-drive activity light

The optical-drive activity light turns on when the computer reads from or writes to an optical drive.

3. Optical-drive eject button

Press to open the optical drive tray.

4. Optical-drive emergency eject pinhole

Used to eject the optical-drive tray manually if the optical-drive eject button fails.

i NOTE: For more information about manually ejecting optical-drive trays, see the knowledge base article 000139665 at www.dell.com/support.

5. Power button

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

Press to put the computer in a sleep state if it is turned on.

Press and hold to force shut down the computer.

i NOTE: You can customize the power-button behavior in Windows. For more information, see Me and My Dell at www.dell.com/support/manuals.

6. Hard-drive activity light

The activity light turns on when the computer reads from or writes to the hard drive.

7. Global headset jack

Connect headphones or a headset (headphone and microphone combo).

8. USB 2.0 ports (2)

Connect devices such as external storage devices and printers. Provides data transfer speeds up to 480 Mbps.

9. USB 3.2 Gen 1 (Type-C) port

Connect to external storage devices. Provides data transfer speeds up to 5 Gbps.



NOTE: This port does not support video/audio streaming.

10. USB 3.2 Gen 1 port

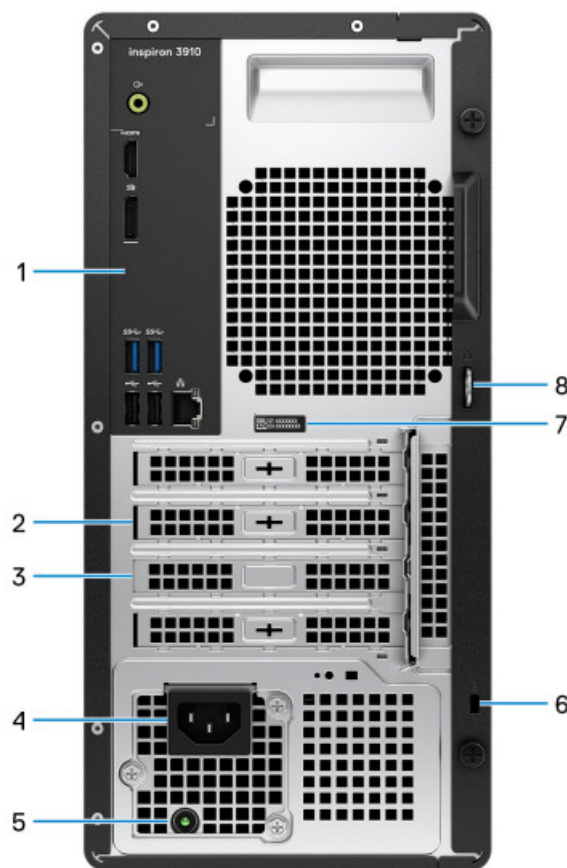
Connect devices such as external storage devices and printers. Provides data transfer speeds up to 5 Gbps.

11. SD-card slot (optional)

Reads from and writes to the SD card. The computer supports the following card types:

- Secure Digital (SD)
- Secure Digital High Capacity (SDHC)
- Secure Digital Extended Capacity (SDXC)

Back



1. Back panel

Connect USB, audio, video, and other devices.

2. PCI-express x1 slot

Connect a PCI-express card such as an audio or network card to enhance the capabilities of your computer.

3. PCI-express X16 slot

Connect a PCI-express graphics card to enhance the capabilities of your computer.

4. Power port

Connect a power cable to provide power to your computer.

5. Power-supply diagnostics light

Indicates the power-supply state.

6. Security-cable slot (wedge-shaped)

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

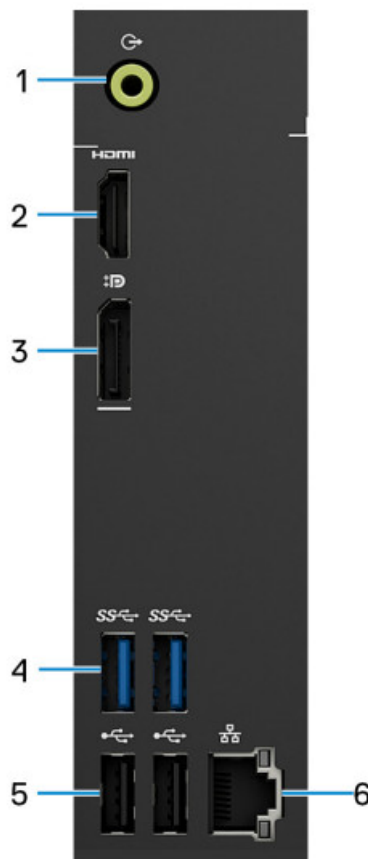
7. Service Tag label

The Service Tag is a unique alphanumeric identifier that enables Dell service technicians to identify the hardware components in your computer and access warranty information.

8. Padlock rings

Attach a standard padlock to prevent unauthorized access to the interior of your computer.

Back panel



1. Line-out port

Connect speakers.

2. HDMI 1.4b port

Connect to a TV, external display, or another HDMI-in-enabled device. Provides video and audio output.

3. Dual-Mode DisplayPort 1.4

Connect an external display or a projector.

NOTE: Besides a DisplayPort connector, this port can also provide display output to a DVI or HDMI connector with a DisplayPort 1.4 adapter (sold separately).

NOTE: This port is only available on computers shipped with an Intel UHD Graphics integrated graphics processor.

4. USB 3.2 Gen 1 ports (2)

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

5. USB 2.0 ports (2)

Connect devices such as external storage devices and printers. Provides data transfer speeds up to 480 Mbps.

6. Network port (with lights)


Connect an Ethernet (RJ45) cable from a router or a broadband modem for network or Internet access. The two lights next to the connector indicate the connectivity status and network activity.

Specifications of Inspiron 3910

Dimensions and weight

The following table lists the height, width, depth, and weight of your Inspiron 3910.

Table 2. Dimensions and weight

| Description | Values |
|--|-----------------------|
| Height | 324.30 mm (12.77 in.) |
| Width | 154 mm (6.06 in.) |
| Depth | 293 mm (11.54 in.) |
| Weight  NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability. | 6.60 kg (14.57 lb) |

Processor

The following table lists the details of the processors that are supported by your Inspiron 3910.

Table 3. Processor

| Description | Option one | Option two | Option three | Option four | Option five | Option Six | Option seven |
|------------------------|-------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------|--------------------------------------|--------------------------|---------------------|
| Processor type | 12th Generation Intel Core i3-12100 | 12th Generation Intel Core i5-12400 | 12th Generation Intel Core i5-12400F | 12th Generation Intel Core i7-12700 | 12th Generation Intel Core i7-12700F | Intel Pentium Gold G7400 | Intel Celeron G6900 |
| Processor wattage | 65 W | 65 W | 65 W | 65 W | 65 W | 65 W | 65 W |
| Processor core count | 4 | 6 | 6 | 12 | 12 | 2 | 2 |
| Processor thread count | 8 | 12 | 12 | 20 | 20 | 4 | 4 |
| Processor speed | Up to 4.30 GHz | Up to 4.40 GHz | Up to 4.40 GHz | Up to 4.90 GHz | Up to 4.90 GHz | Up to 3.70 GHz | Up to 3.40 GHz |
| Processor cache | 12 MB | 18 MB | 18 MB | 25 MB | 25 MB | 6 MB | 4 MB |
| Integrated graphics | Intel UHD Graphics | Intel UHD Graphics | None | Intel UHD Graphics | None | Intel UHD Graphics | Intel UHD Graphics |

Chipset

The following table lists the details of the chipset supported by your Inspiron 3910.

Table 4. Chipset

| Description | Values |
|----------------|--|
| Chipset | B660 |
| Processor | <ul style="list-style-type: none">● 12th Generation Intel Core i3/i5/i5F/i7/i7F● Intel Pentium Gold● Intel Celeron |
| DRAM bus width | 64-bit |
| Flash EPROM | 32 MB |
| PCIe bus | Up to Gen3 |

Operating system

Your Inspiron 3910 supports the following operating systems:

- Windows 11 Pro, 64-bit
- Windows 11 Pro Downgrade, 64-bit
- Windows 11 Home, 64-bit
- Ubuntu 20.04 LTS, 64-bit

Memory

The following table lists the memory specifications of your Inspiron 3910.



Table 5. Memory specifications

| Description | Values |
|---------------------------------|---|
| Memory slots | Two U-DIMM slots |
| Memory type | Dual-channel DDR4 |
| Memory speed | 3200 MHz |
| Maximum memory configuration | 64 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">● 4 GB, 1 x 4 GB, DDR4, 3200 MHz● 8 GB, 1 x 8 GB, DDR4, 3200 MHz● 8 GB, 2 x 4 GB, dual-channel DDR4, 3200 MHz● 12 GB, 1 x 4 GB + 1 x 8 GB, DDR4, 3200 MHz● 16 GB, 1 x 16 GB, DDR4, 3200 MHz● 16 GB, 2 x 8 GB, dual-channel DDR4, 3200 MHz● 32 GB, 1 x 32 GB, DDR4, 3200 MHz● 32 GB, 2 x 16 GB, dual-channel DDR4, 3200 MHz● 64 GB, 2 x 32 GB, dual-channel DDR4, 3200 MHz |

Ports and connectors

The following table lists the external and internal ports available on your Inspiron 3910.

Table 6. Ports and connectors

| Description | Values |
|---------------------------|--|
| External: | |
| Network | One RJ-45 Ethernet port |
| USB | <ul style="list-style-type: none">● Three USB 3.2 Gen 1 port● Four USB 2.0 ports● One USB 3.2 Gen 1 Type-C port |
| Audio | <ul style="list-style-type: none">● One global headset jack● One audio line-out port |
| Video | <ul style="list-style-type: none">● One DisplayPort 1.4 port● One HDMI 1.4b port  NOTE: HDMI port resolution is up to 1920 x 1200. |
| Media-card reader | One SD-card slot |
| Power port | One AC power supply port |
| Security | <ul style="list-style-type: none">● One padlock ring slot● One security-cable slot (wedge-shaped) |
| Internal: | |
| PCIe expansion card slots | <ul style="list-style-type: none">● One PCIe x16 slot● One PCIe x1 slot |
| mSATA | None |
| SATA | Three SATA 3.0 slots |
| M.2 | <ul style="list-style-type: none">● One M.2 2230 slot for WiFi and Bluetooth combo card● One M.2 2230/2280 slot for a solid-state drive  NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article 000144170 . |

Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Inspiron 3910.

Table 7. Ethernet specifications

| Description | Values |
|---------------|--------------------|
| Model number | Realtek RTL8111HSD |
| Transfer rate | 10/100/1000 Mbps |

Wireless module

The following table lists the Wireless Local Area Network (WLAN) modules supported on your Inspiron 3910.

Table 8. Wireless module specifications

| Description | Option one | Option two |
|---------------------------|--|--|
| Model number | MediaTek MT7921 | Intel AX201 |
| Transfer rate | Up to 1200 Mbps | Up to 2400 Mbps |
| Frequency bands supported | 2.40 GHz/5 GHz | 2.40 GHz/5 GHz |
| Wireless standards | <ul style="list-style-type: none"> ● WiFi 802.11a/b/g ● Wi-Fi 4 (WiFi 802.11n) ● Wi-Fi 5 (WiFi 802.11ac) ● Wi-Fi 6 (WiFi 802.11ax) | <ul style="list-style-type: none"> ● WiFi 802.11a/b/g ● Wi-Fi 4 (WiFi 802.11n) ● Wi-Fi 5 (WiFi 802.11ac) ● Wi-Fi 6 (WiFi 802.11ax) |
| Encryption | <ul style="list-style-type: none"> ● 64-bit/128-bit WEP ● AES-CCMP ● TKIP | <ul style="list-style-type: none"> ● 64-bit/128-bit WEP ● AES-CCMP ● TKIP |
| Bluetooth | Bluetooth 5.2 | Bluetooth 5.2 |

Storage

This section lists the storage options on your Inspiron 3910.

Your Inspiron 3910 supports one of the following storage configurations:

- One 2.5-inch or 3.5-inch hard-drive
- One M.2 2230/2280 solid-state drive
- One 2.5-inch or 3.5-inch hard drive + one M.2 2230/2280 solid-state drive

The primary drive of your Inspiron 3910 varies with the storage configuration. For computers:

- With an M.2 drive, the M.2 drive is the primary drive
- Without an M.2 drive, the 2.5-inch or 3.5-inch hard drive is the primary drive

Table 9. Storage specifications

| Storage type | Interface type | Capacity |
|----------------------------|----------------------------------|------------|
| 2.5-inch hard-disk drive | SATA AHCI, up to 6 Gbps | Up to 2 TB |
| 3.5-inch hard-disk drive | SATA AHCI, up to 6 Gbps | Up to 2 TB |
| M.2 2230 solid-state drive | PCIe Gen3 x4 NVMe, up to 32 Gbps | Up to 1 TB |
| M.2 2280 solid-state drive | PCIe Gen3 x4 NVMe, up to 32 Gbps | Up to 1 TB |

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Inspiron 3910.

Table 10. GPU—Integrated

| Controller | External display support | Memory size | Processor |
|--------------------|--|----------------------|--|
| Intel UHD Graphics | <ul style="list-style-type: none"> ● One HDMI 1.4b port ● One DisplayPort 1.4 port | Shared system memory | <ul style="list-style-type: none"> ● 12th Generation Intel Core i3/i5/i7 ● Intel Pentium Gold ● Intel Celeron |

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Inspiron 3910.

Table 11. GPU—Discrete

| Controller | Memory size | Memory type |
|-------------------------------|-------------|-------------|
| NVIDIA GeForce GT 730 | 2 GB | GDDR5 |
| NVIDIA GeForce GTX 1650 SUPER | 4 GB | GDDR6 |
| NVIDIA GeForce GTX 1660 SUPER | 6 GB | GDDR6 |

Audio

The following table lists the audio specifications of your Inspiron 3910.

Table 12. Audio specifications

| Description | Values |
|--------------------------|--|
| Audio type | Integrated 5.1 Channel High Definition audio |
| Audio controller | Cirrus Logic CS8409 + CS42L42 |
| Internal audio interface | High-definition audio interface |
| External audio interface | <ul style="list-style-type: none"> ● One global headset jack ● One audio line-out port |

Power ratings

The following table lists the power rating specifications of Inspiron 3910.

Table 13. Power ratings


| Description | Option one | Option two | Option three |
|-----------------------------|--|--|--|
| Type | 180 W Bronze | 240 W Bronze | 300 W Bronze |
| 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) | 3 A | 4 A | 4.60 A |
| Output current (continuous) | Operating: ● 12 VA – 15 A ● 12 VB – 14 A Standby: ● 12 VA – 1.50 A ● 12 VB – 3.30 A | Operating: ● 12 VA – 18 A ● 12 VB – 15 A Standby: ● 12 VA – 1.50 A ● 12 VB – 3.30 A | Operating: ● 12 VA – 16.50 A ● 12 VB – 15 A ● 12 VC – 12 A Standby: ● 12 VA – 1.50 A ● 12 VB – 3.30 A ● 12 VC – 0 A |
| Rated output voltage | ● 12 VA ● 12 VB | ● 12 VA ● 12 VB | ● 12 VA ● 12 VB ● 12 VC |
| Temperature range: | | | |
| Operating | 5°C to 45°C (41°F to 113°F) | 5°C to 45°C (41°F to 113°F) | 5°C to 45°C (41°F to 113°F) |
| Storage | -40°C to 70°C (-40°F to 158°F) | -40°C to 70°C (-40°F to 158°F) | -40°C to 70°C (-40°F to 158°F) |

Operating and storage environment

This table lists the operating and storage specifications of your Inspiron 3910.

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

Table 14. 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) |
| Relative humidity (maximum) | 10% to 90% (non-condensing) | 0% to 95% (non-condensing) |
| Vibration (maximum)* | 0.66 GRMS | 1.30 GRMS |
| Shock (maximum) | 110 G† | 160 G† |
| Altitude range | -15.2 m to 3048 m (-49.87 ft to 10000 ft) | -15.2 m to 10668 m (-49.87 ft to 35000 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 the 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 15. Self-help resources

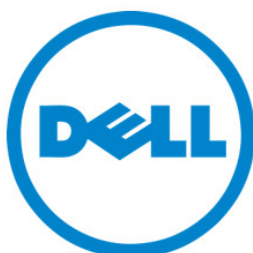
| Self-help resources | Resource location |
|---|--|
| Information about Dell products and services | www.dell.com |
| My Dell app |  |
| Tips |  |
| Contact Support | In Windows search, type Contact Support, and press Enter. |
| Online help for operating system | www.dell.com/support/windows |
| Access 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.



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