Inspiron 3880

Setup and Specifications

Notes, cautions, and warnings

(i) **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.**

Contents

Set up your computer

Steps

1. Connect the keyboard and mouse.
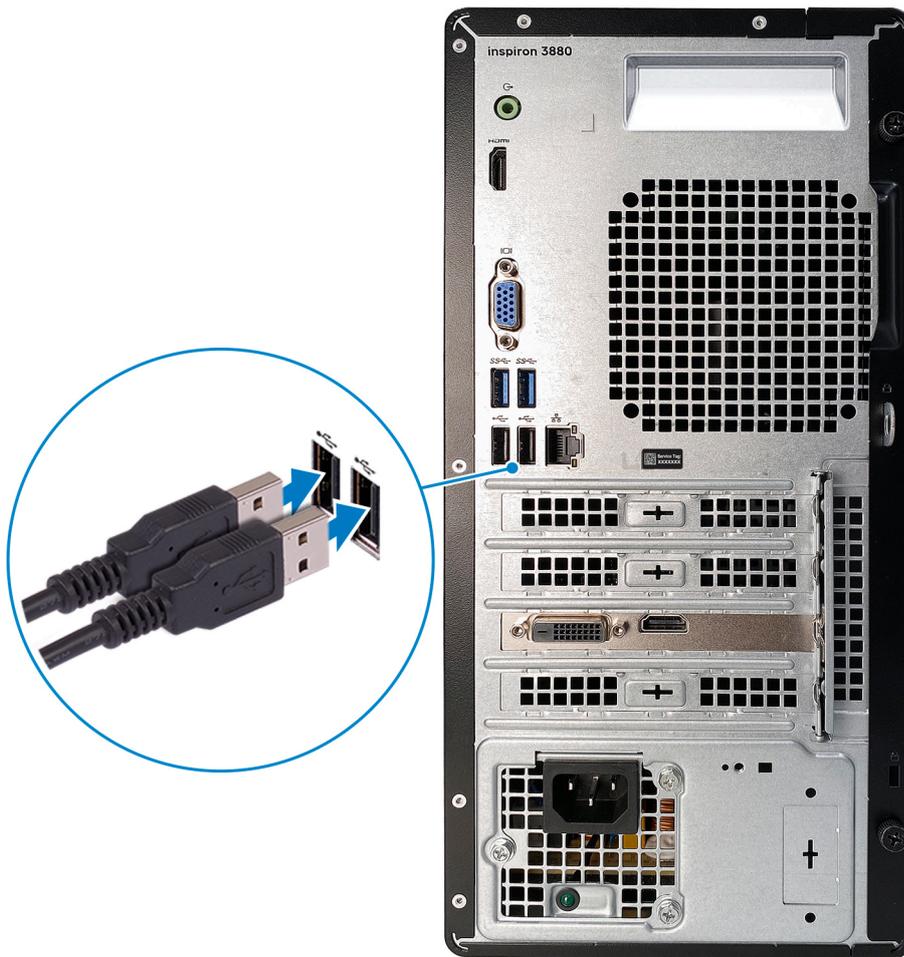
2. Connect to your network using a cable, or connect to a wireless network.
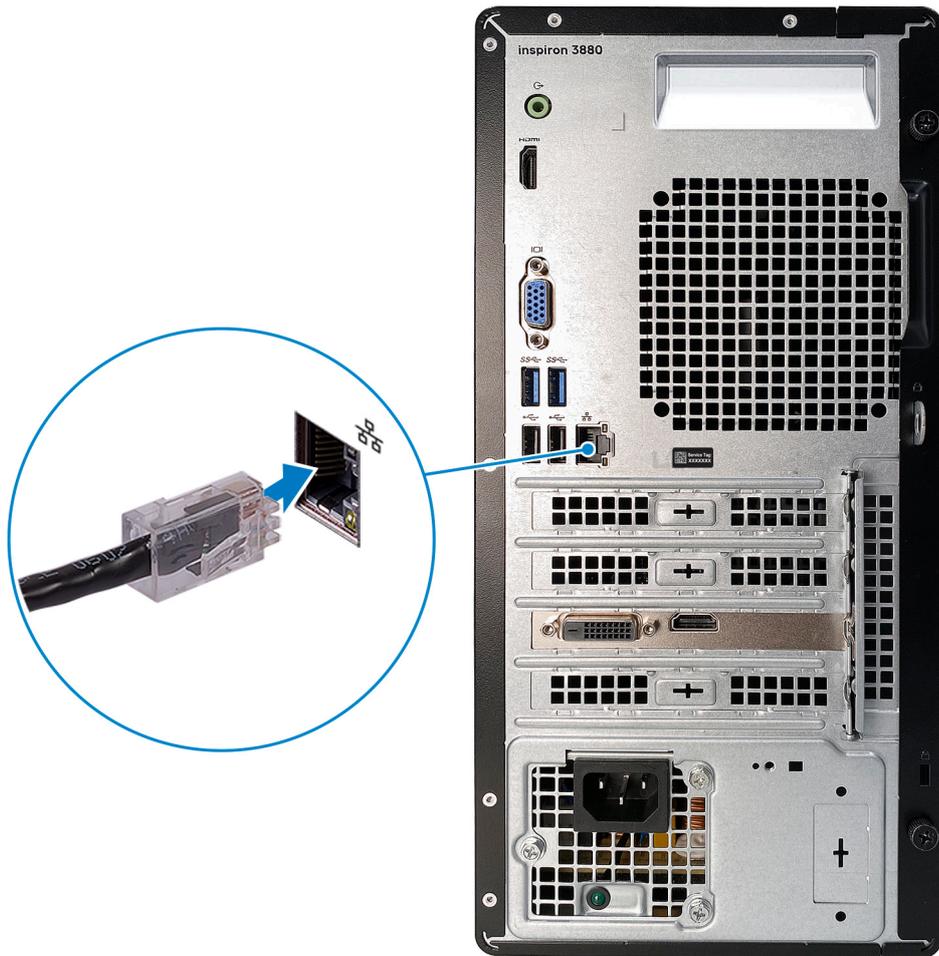
3. Connect the display.

ⓘ **NOTE:** If you ordered your computer with a discrete graphics card, the HDMI and VGA ports on the back panel of your computer are covered. Connect the display to the discrete graphics card.

4. Connect the power cable.
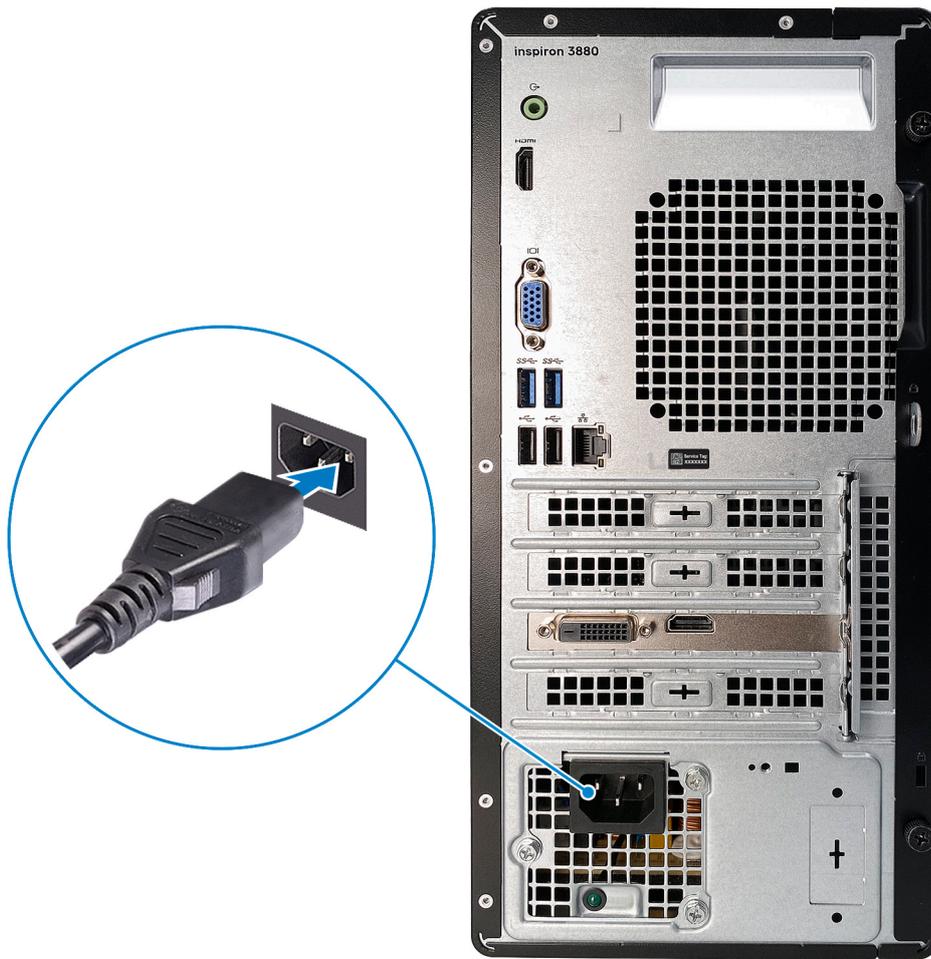
5. Press the power button.

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.

For Windows:

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
	My Dell 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.

Table 1. Locate Dell apps (continued)

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 *SupportAssist for Home PCs User's Guide* 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 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 Inspiron 3880

Front
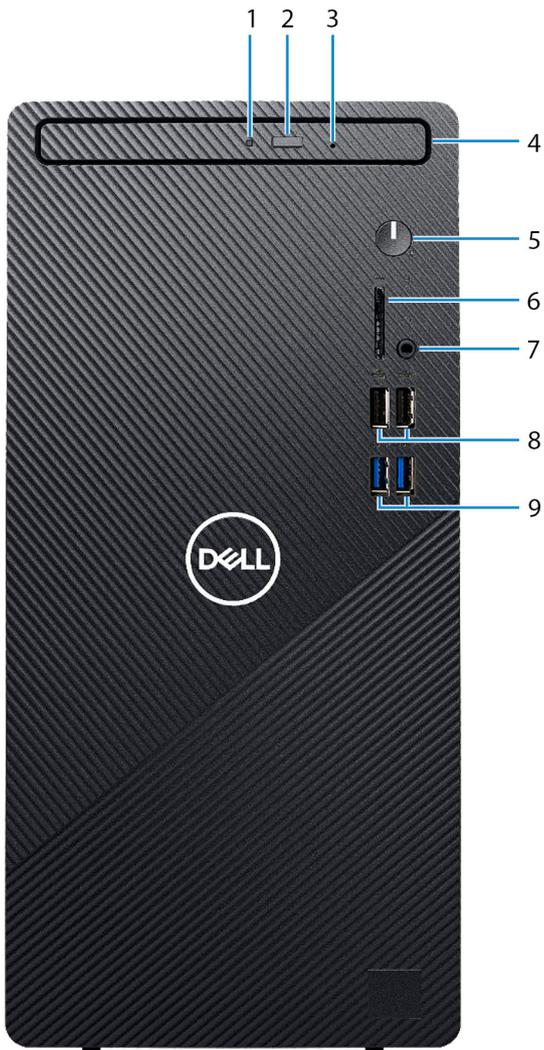
1. **Optical-drive activity light**

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

2. **Optical-drive eject button**

   Press to open the optical drive tray.

3. **Optical-drive emergency eject pinhole**

   If the optical-drive eject button fails, use the pinhole to eject the optical-drive tray manually.

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

4. **Optical drive**

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

5. **Power button**

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

When the computer is turned on, press the power button to put the computer into sleep state; press and hold the power button for 10 seconds 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. **SD-card slot**

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)

7. **Headset port**

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 ports (2)**

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

Back
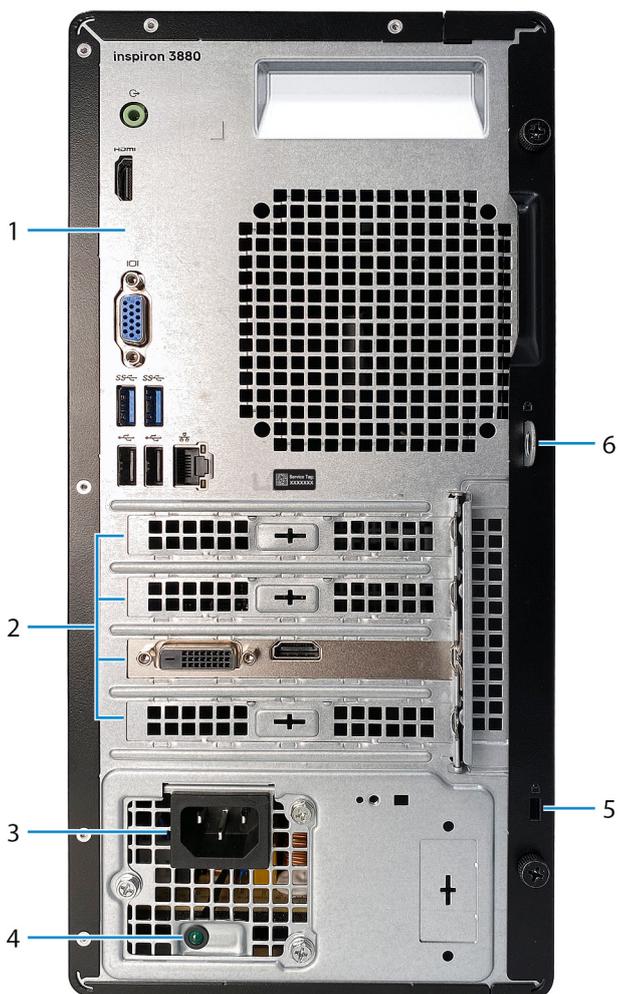
1. **Back panel**

   Connect USB, audio, video, and other devices.

2. **Expansion-card slots**

   Provide access to ports on any installed PCI Express cards.

3. **Power port**

   Connect a power cable to provide power to your computer.

4. **Power-supply diagnostics light**

   Indicates the power-supply state.

5. **Padlock rings**

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

6. **Security-cable slot (wedge-shaped)**

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

Back panel
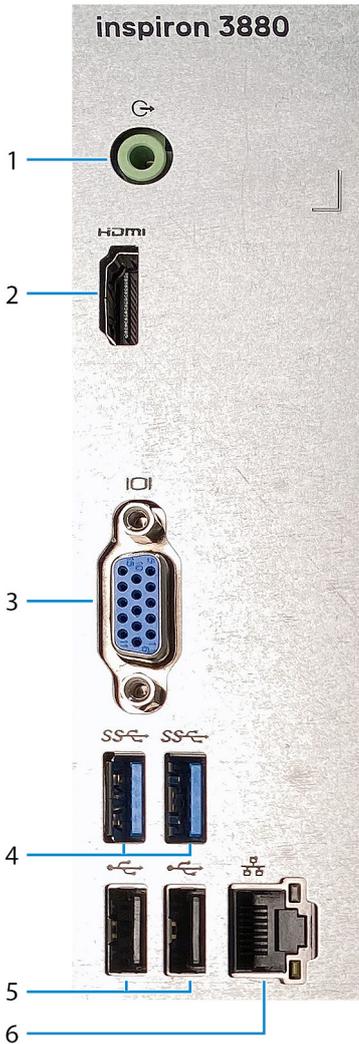
1. **Line-out port**

   Connect speakers.

2. **HDMI port**

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

   ⓘ **NOTE:** This port is not available for computers shipped with 10th Generation Intel Core i5-10400F and 10th Generation Intel Core i7-10700F processors.

3. **VGA port**

   Connect an external display or a projector.

   ⓘ **NOTE:** This port is not available for computers shipped with 10th Generation Intel Core i5-10400F and 10th Generation Intel Core i7-10700F processors.

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**

   Connect an Ethernet (RJ45) cable from a router or a broadband modem for network or Internet access.

Specifications of Inspiron 3880

Dimensions and weight

The following table lists the height, width, depth, and weight of your Inspiron 3880.

Table 2. Dimensions and weight

Description	Values
Height:	
Front height	324.30 mm (12.77 in.)
Rear height	324.30 mm (12.77 in.)
Width	154 mm (6.06 in.)
Depth	293 mm (11.54 in.)
Weight (maximum)	6.02 kg (13.27 lb) (i) **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 Inspiron 3880 .

Table 3. Processor

Description	Option one	Option two	Option three	Option four	Option five	Option six	Option seven	Option eight
Processor type	10th Generation Intel Celeron G5900	10th Generation Intel Celeron G5905	10th Generation Intel Pentium Gold G6400	10th Generation Intel Core i3-10100	10th Generation Intel Core i5-10400	10th Generation Intel Core i5-10400F	10th Generation Intel Core i7-10700	10th Generation Intel Core i7-10700F
Processor wattage	58 W	58 W	58 W	65 W	65 W	65 W	65 W	65 W
Processor core count	2	2	2	4	6	6	8	8
Processor thread count	2	2	4	8	12	12	16	16
Processor speed	3.4 GHz	3.5 GHz	4 GHz	Up to 4.3 GHz	Up to 4.3 GHz	Up to 4.3 GHz	Up to 4.8 GHz	Up to 4.8 GHz
Processor cache	2 MB	4 MB	4 MB	6 MB	12 MB	12 MB	16 MB	16 MB

Table 3. Processor (continued)

Description	Option one	Option two	Option three	Option four	Option five	Option six	Option seven	Option eight
Integrated graphics	Intel UHD Graphics 610	Intel UHD Graphics 610	Intel UHD Graphics 610	Intel UHD Graphics 630	Intel UHD Graphics 630	Not supported	Intel UHD Graphics 630	Not supported

Chipset

The following table lists the details of the chipset supported by your Inspiron 3880.

Table 4. Chipset

Description	Values
Chipset	Intel CML PCH-V B460
Processor	● 10th Generation Intel Core i3/i5/i7 ● 10th Generation Intel Core i5F/i7F ● 10th Generation Intel Pentium Gold ● 10th Generation Intel Celeron
DRAM bus width	64-bit
Flash EPROM	16 MB
PCIe bus	Up to Gen3

Operating system

Your Inspiron 3880 supports the following operating systems:

● Windows 11 Home, 64-bit
● Windows 11 Home National Academic, 64-bit
● Windows 11 Home in S-mode, 64-bit
● Windows 11 Pro, 64-bit
● Windows 11 Pro National Academic, 64-bit
● Windows 10 Home, 64-bit
● Windows 10 Home in S-mode, 64-bit
● Windows 10 Pro, 64-bit
● Ubuntu 20.04 LTS, 64-bit

Memory

The following table lists the memory specifications of your Inspiron 3880.

Table 5. Memory specifications

Description	Values
Memory slots	Two DIMM slots
Memory type	Dual-Channel DDR4
Memory speed	2666 MHz, 2933 MHz

Table 5. Memory specifications (continued)

Description	Values
	ⓘ **NOTE:** 2933 MHz speed memory modules are only available for computers shipped with 10th Generation Intel Core i7/i7F processors.
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	4 GB, 1 x 4 GB, DDR4, 2666 MHz to 2933 MHz 8 GB, 1 x 8 GB, DDR4, 2666 MHz to 2933 MHz 8 GB, 2 x 4 GB, dual-channel DDR4, 2666 MHz to 2933 MHz 16 GB, 1 x 16 GB, DDR4, 2666 MHz to 2933 MHz 16 GB, 2 x 8 GB, dual-channel DDR4, 2666 MHz to 2933 MHz 32 GB, 1 x 32 GB, DDR4, 2666 MHz to 2933 MHz 32 GB, 2 x 16 GB, dual-channel DDR4, 2666 MHz to 2933 MHz 64 GB, 2 x 32 GB, dual-channel DDR4, 2666 MHz to 2933 MHz

External ports

The following table lists the external ports of your Inspiron 3880.

Table 6. External ports

Description	Values
Network port	One RJ-45 port
USB ports	- Four USB 2.0 ports - Four USB 3.2 Gen 1 ports
Audio port	- One headset (headphone and microphone combo) port - One line-out port
Video port	- One HDMI 1.4 port - One VGA port ⓘ **NOTE:** These ports are not available for computers shipped with 10th Generation Intel Core i5-10400F and 10th Generation Intel Core i7-10700F processors.
Media-card reader	One SD-card slot
Security	- One padlock ring slot - One security-cable slot (wedge-shaped)

Internal slots

The following table lists the internal slots of your Inspiron 3880.

Table 7. Internal slots

Description	Values
PCIe	- One PCIe x16 expansion card slot. - One PCIe x1 expansion card slot.
SATA	- One SATA slot for optical-disk drive - One SATA slot for 3.5-inch hard-disk drive
M.2	- One M.2 2230 slot for WiFi and Bluetooth combo card - One M.2 slot for 2280 solid-state drive/Intel Optane or 2230 solid-state drive (i) **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.

Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Inspiron 3880.

Table 8. Ethernet specifications

Description	Values
Model number	Realtek 8111HSD
Transfer rate	10/100/1000 Mbps

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module specifications of your Inspiron 3880.

Table 9. Wireless module specifications

Description	Option one	Option two	Option three
Model number	Intel 3165	Intel 9260	Realtek RTL8723DE
Transfer rate	Up to 433 Mbps	Up to 433 Mbps	Up to 150 Mbps
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz	2.4 GHz
Wireless standards	- WiFi 802.11a/b/g - Wi-Fi 4 (WiFi 802.11n) - Wi-Fi 5 (WiFi 802.11ac)	- WiFi 802.11a/b/g - Wi-Fi 4 (WiFi 802.11n) - Wi-Fi 5 (WiFi 802.11ac)	- WiFi 802.11a/b/g - Wi-Fi 4 (WiFi 802.11n)
Encryption	64-bit/128-bit WEP - AES-CCMP - TKIP	64-bit/128-bit WEP - AES-CCMP - TKIP	64-bit/128-bit WEP - AES-CCMP - TKIP
Bluetooth	Bluetooth 4.2	Bluetooth 5	Bluetooth 4.2

Audio

The following table lists the audio specifications of your Inspiron 3880.

Table 10. Audio specifications

Description	Values
Audio controller	Realtek ALC3246
Stereo conversion	Supported
Internal audio interface	High definition audio interface
External audio interface	- One HDMI 1.4b port ⓘ **NOTE:** This port is not available for computers shipped with 10th Generation Intel Core i5-10400F and 10th Generation Intel Core i7-10700F processors. - One headset (headphone and microphone combo) port - One line-out port

Storage

This section lists the storage options on your Inspiron 3880.

Your Inspiron 3880 supports one of the following storage configurations:
- One 3.5-inch hard-disk drive
- One M.2 2230 solid-state drive
- One M.2 2230 solid-state drive + One 3.5-inch hard-disk drive

The primary drive of your Inspiron 3880 varies with the storage configuration. For computers:
- with a solid-state drive, the solid-state drive is the primary drive
- without a solid-state drive, the hard drive is the primary drive

Table 11. Storage specifications

Storage type	Interface type	Capacity
3.5-inch hard-disk drive	SATA AHCI, up to 6 Gbps	Up to 2 TB .
M.2 2230 solid-state drive	PCIe Gen3.0x4 NVMe, up to 32 Gbps	Up to 512 GB
9.5mm DVD+/-RW drive	SATA AHCI, up to 1.5 Gbps	One DVD+/-RW

Intel Optane memory

Intel Optane memory functions only as a storage accelerator. It neither replaces nor adds to the memory (RAM) installed on your computer.

ⓘ **NOTE:** Intel Optane memory is supported on computers that meet the following requirements:
- 7th Generation or higher Intel Core i3/i5/i7 processor
- Windows 10 64-bit version or higher
- Latest version of Intel Rapid Storage Technology driver

Table 12. Intel Optane memory

Description	Values
Type	Storage accelerator

Table 12. Intel Optane memory (continued)

Description	Values
Interface	PCIe Gen3.0 x2
Connector	M.2 2280
Configurations supported	16 GB or 32 GB
Capacity	Up to 32 GB

Media-card reader

The following table lists the media cards supported by your Inspiron 3880.

Table 13. Media-card reader specifications

Description	Values
Media-card type	One SD card slot
Media-cards supported	- Secure Digital (SD) - Secure Digital High Capacity (SDHC) - Secure Digital Extended Capacity (SDXC)
ⓘ **NOTE:** The maximum capacity supported by the media-card reader varies depending on the standard of the media card installed in your computer.	

Power supply

The following table lists the power supply specifications of your Inspiron 3880.

Table 14. Power supply specifications

Description		Option 1	Option 2
Type		200W Bronze	260W Bronze
Input voltage		90 VAC–264 VAC	90 VAC–264 VAC
Input frequency		47 Hz–63 Hz	47 Hz–63 Hz
Input current (maximum)		3.20 A	4.20 A
Output current (continuous)		Operating: • 12 VA: 16.5 A • 12 VB: 14 A Standby: • 12 VA: 0.5 A • 12 VB: 2.5 A	Operating: • 12 VA: 16.5 A • 12 VB: 16 A Standby: • 12 VA: 0.5 A • 12 VB: 2.5 A
Rated output voltage		12 VA, 12 VB	12 VA, 12 VB
Temperature range:			
	Operating	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)

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Inspiron 3880.

Table 15. GPU—Integrated

Controller	External display support	Memory size	Processor
Intel UHD Graphics 610	● One HDMI 1.4b port ● One VGA port	Shared system memory	10th Generation Intel Celeron/Pentium Gold
Intel UHD Graphics 630	● One HDMI 1.4b port ● One VGA port	Shared system memory	10th Generation Intel Core i3/i5/i7

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Inspiron 3880.

Table 16. GPU—Discrete

Controller	External display support	Memory size	Memory type
NVIDIA GeForce GT 730	● One HDMI 1.4 port ● One VGA port ● One DVI-D port	2 GB	GDDR5
NVIDIA GeForce GT 1030	● One HDMI 1.4 port ● One DVI-D port	2 GB	GDDR5

Operating and storage environment

This table lists the operating and storage specifications of your Inspiron 3880.

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

Table 17. 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)	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 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 18. 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 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.