

Inspiron 3670

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.

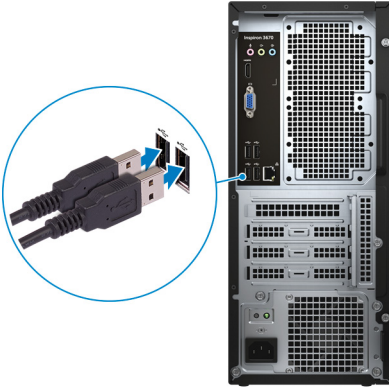
© 2018 Dell Inc. or its subsidiaries. All rights reserved. Dell, EMC, and other trademarks are trademarks of Dell Inc. or its subsidiaries. Other trademarks may be trademarks of their respective owners.

1 Set up your computer.....	4
2 Create a USB recovery drive for Windows.....	7
3 Views.....	8
Front.....	8
Back.....	9
Back panel.....	10
4 Specifications.....	12
Computer model.....	12
System information.....	12
Dimensions and weight.....	12
Operating system.....	12
Memory.....	12
Ports and connectors.....	13
Communications.....	13
Wireless.....	13
Audio.....	14
Storage.....	14
Intel Optane memory.....	14
Media-card reader.....	14
Power ratings.....	15
Video.....	15
Computer environment.....	16
5 Intel Optane memory.....	17
Enabling Intel Optane memory.....	17
Disabling Intel Optane memory.....	17
6 Getting help and contacting Dell.....	18
Self-help resources.....	18
Contacting Dell.....	18



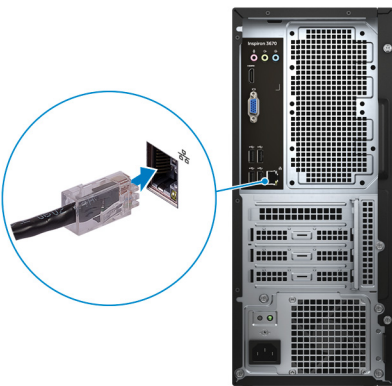
Set up your computer

- 1 Connect the keyboard and mouse.



NOTE: For setup instructions, see the documentation shipped with the keyboard and mouse.

- 2 Connect the network cable—Optional.



- 3 Connect the display.



NOTE: If you ordered your computer with a discrete graphics card, 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 configuring the Ubuntu install, see the knowledge base article [SLN151664](https://www.dell.com/support/article/SLN151664) 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



Dell Product Registration

Register your computer with Dell.



Dell Help & Support

Access help and support for your computer.

SupportAssist

Pro-actively checks the health of your computer's hardware and software. The SupportAssist OS Recovery tool troubleshoots issues with the operating system. For more information, see the SupportAssist documentation at www.dell.com/support.



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.



Dell Digital Delivery

Download software applications, which are purchased but not pre-installed on your computer.

- 8 Create recovery drive for Windows.

NOTE: It is recommended to create a recovery drive to troubleshoot and fix problems that may occur with Windows.

For more information, see [Create a USB recovery drive for Windows](#).

Create a USB recovery drive for Windows

Create a recovery drive to troubleshoot and fix problems that may occur with Windows. An empty USB flash drive with a minimum capacity of 16 GB is required to create the recovery drive.

NOTE: This process may take up to an hour to complete.

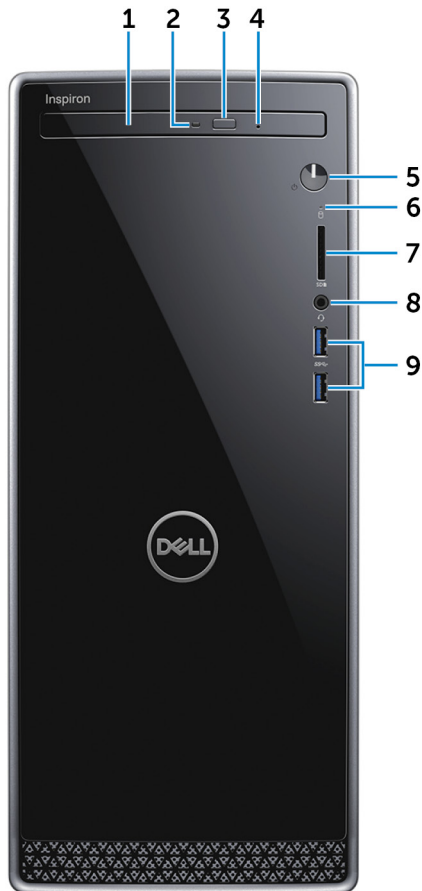
NOTE: The following steps may vary depending on the version of Windows installed. Refer to the [Microsoft support site](#) for latest instructions.

- 1 Connect the USB flash drive to your computer.
- 2 In Windows search, type *Recovery*.
- 3 In the search results, click **Create a recovery drive**.
The **User Account Control** window is displayed.
- 4 Click **Yes** to continue.
The **Recovery Drive** window is displayed.
- 5 Select **Back up system files to the recovery drive** and click **Next**.
- 6 Select the **USB flash drive** and click **Next**.
A message appears, indicating that all data in the USB flash drive will be deleted.
- 7 Click **Create**.
- 8 Click **Finish**.

For more information about reinstalling Windows using the USB recovery drive, see the *Troubleshooting* section of your product's *Service Manual* at www.dell.com/support/manuals.



Front



1 **Optical drive**

Reads from and writes to CDs and DVDs.

2 **Optical-drive activity light**

Turns on when the computer reads from or writes to the optical disc.

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.

NOTE: For more information about manually ejecting optical-drive trays, see the knowledge base article [SLN301118](https://www.dell.com/support) 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 sleep state if it is turned on.

Press and hold for 4 seconds to force shut-down the computer.

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

6 Hard-drive activity light

Turns on when the computer reads from or writes to the hard drive.

7 SD-card slot

Reads from and writes to the SD card.

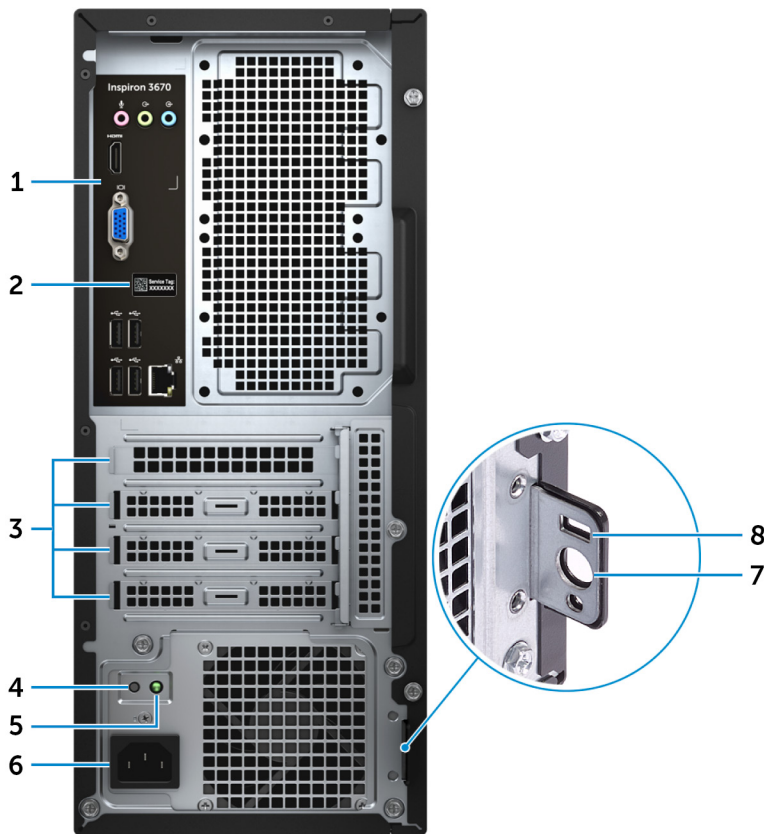
8 Headphone/speaker port

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

9 USB 3.1 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 **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.

3 **Expansion-card slots**

Provide access to ports on any installed PCI Express cards.

4 **Power-supply diagnostics button**

Press to check the power-supply state.

5 **Power-supply diagnostics light**

Indicates the power-supply state.

6 **Power port**

Connect a power cable to provide power to your computer.

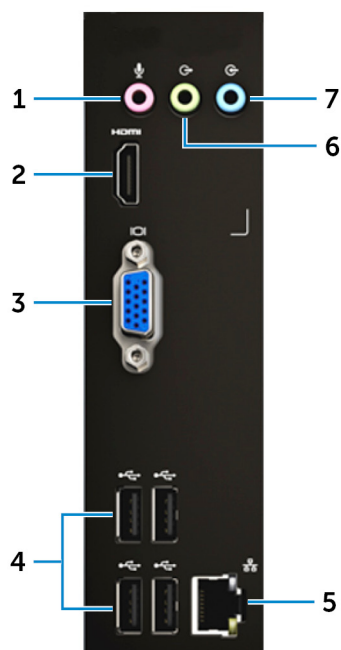
7 **Padlock ring(s)**

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

8 **Security-cable slot (for Kensington locks)**

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

Back panel



1 **Microphone port**

Connect an external microphone to provide sound input.

2 **HDMI port**

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

3 **VGA port**

Connect an external display or a projector.

4 **USB 2.0 ports (4)**

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

5 **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.

6 **Line-out port**

Connect speakers.

7 **Line-in port**

Connect recording or playback devices such as a microphone or CD player.



Specifications

Computer model

Inspiron 3670

System information

Table 2. System information

Processor	<ul style="list-style-type: none"> 8th Generation Intel Core i3/i5/i7 Intel Pentium Gold Core Intel Celeron G Core
Chipset	Intel B360

Dimensions and weight

Table 3. Dimensions and weight

Height	373.70 mm (14.71 in)
Width	160 mm (6.30 in)
Depth	294 mm (11.57 in)
Weight	5.90 kg (13 lbs)

NOTE: The weight of your computer varies depending on the configuration ordered and the manufacturing variability.

Operating system

- Windows 10 Home (64-bit)
- Windows 10 Professional (64-bit)
- Ubuntu

Memory

Table 4. Memory specifications

Slots	Two UDIMM slots
Type	Dual-channel DDR4
Speed	2400 MHz and 2666 MHz
Configurations supported	

Per memory module slot

4 GB, 8 GB, and 16 GB

Total memory

4 GB, 8 GB, 12 GB, 16 GB, 24 GB, and 32 GB

Ports and connectors

Table 5. Ports and connectors

External:

Front

USB	Two USB 3.1 Gen 1 ports
Audio/Video	One headset (headphone and microphone combo) port

Back

Network	One RJ-45 port
USB	Four USB 2.0 ports
Audio/Video	<ul style="list-style-type: none">• One microphone port• One line-in port• One line-out port• One HDMI-out port• One VGA port

Table 6. Ports and connectors

Internal:

M.2 card	<ul style="list-style-type: none">• One M.2 2230 slot for wireless and bluetooth combo card• One M.2 2230/2280 slot for Solid-State Drive (SSD)/Intel Optane memory
----------	--

Communications

Table 7. Supported communications

Ethernet	10/100/1000 Mbps controller integrated on the system board
Wireless	<ul style="list-style-type: none">• intel 9462 1x1ac + Bluetooth 5.0 (802.11ac + Bluetooth 5.0, 1x1)• intel 9560 2x2ac + Bluetooth 5.0 (802.11ac + Bluetooth 5.0, 2x2)• DW 1707 + Bluetooth 4.0 (802.11b/g/n + Bluetooth 4.0, 1x1)

Wireless

Table 8. Wireless

Type	DW1707	Intel 9462 1x1ac	Intel 9560 2x2ac
Transfer rate (maximum)	150 Mbps	305 Mbps/326 Mbps	1204 Mbps/1220 Mbps
Frequency bands	2.4 GHz	2.4 GHz/5 GHz	2.4 GHz/5 GHz



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 	<ul style="list-style-type: none"> • 64-bit/128-bit WEP • AES-CCMP • TKIP
------------	--	--	--

Audio

Table 9. Audio specifications

Controller	Realtek ALC3820-CG
------------	--------------------

Storage

Table 10. Storage specifications

Type	Interface	Capacity
One 3.5-inch Hard-Disk Drive (HDD)	SATA AHCI, Up to 6 Gbps	Up to 2 TB
Up to two 2.5-inch Hard-Disk Drives (HDD)	SATA AHCI, Up to 6 Gbps	Up to 1 TB
One M.2 2280 Solid-State Drive (SSD)	PCIe 3 x4 NVME, Up to 32 Gbps	Up to 512 GB
One Optical Disk Drive (ODD)	SATA, up to 3 Gbps	N/A

Intel Optane memory

Intel Optane memory functions as a storage accelerator. It accelerates the computer and any type of SATA-based storage media such as hard drives and solid-state drives (SSDs).

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(Anniversary Update)
- Intel Rapid Storage Technology driver version 15.5.xxxx or higher

Table 11. Intel Optane memory

Interface	PCIe Gen 3 x4, NVMe
Connector	M.2
Configurations supported	16 GB and 32 GB

NOTE: For more information about enabling or disabling the Intel Optane memory, see [Enabling Intel Optane memory](#) or [Disabling Intel Optane memory](#).

Media-card reader

Table 12. Media-card reader specifications

Type	One SD-card slot
Cards supported	<ul style="list-style-type: none"> • SD • SD High Capacity (SDHC)

- SD Extended Capacity (SDXC)
- MultiMediaCard (MMC)

Power ratings

Table 13. Power ratings

Type	290 W APFC		290 W Bronze		365 W Gold	
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)	•	90 VAC/5.4 A	•	90 VAC/5.4 A	•	90 VAC/5 A
	•	180 VAC/2.7 A	•	180 VAC/2.7 A	•	180 VAC/2.5 A
Output current (continuous)	•	12 VA/14 A	•	12 VA/14 A	•	12 VA/14 A
	•	12 VB/16 A	•	12 VB/16 A	•	12 VB/18 A
	•	12 VSB/1.6 A	•	12 VSB/1.6 A	•	12 VC/11 A
	•		•		•	12 VSB/1.6 A
	<i>ⓘ</i> NOTE: Maximum continuous DC output power will not exceed 290 W		<i>ⓘ</i> NOTE: Maximum continuous DC output power will not exceed 290 W		<i>ⓘ</i> NOTE: Maximum continuous DC output power will not exceed 365 W	
Rated output voltage	•	12 VA	•	12 VA	•	12 VA
	•	12 VB	•	12 VB	•	12 VB
	•	12 VSB	•	12 VSB	•	12 VC
					•	12 VSB
Temperature range: Operating	5°C to 50°C (41°F to 122°F)		5°C to 50°C (41°F to 122°F)		5°C to 50°C (41°F to 122°F)	
Temperature range: 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)	

Video

Table 14. Video specifications

Type	Controller	Memory
Integrated	Intel UHD Graphics 630 for 8 th Generation Intel Core processors	Shared system memory
	Intel UHD Graphics 610 for Pentium and Celeron processors	Shared system memory
Discrete	NVIDIA GeForce GT 710	2 GB
	NVIDIA GeForce GTX 1030	2 GB
	NVIDIA GeForce GTX 1050	2 GB
	NVIDIA GeForce GTX 1050 TI	4 GB
	NVIDIA GeForce GTX 1060	3 GB



Computer environment

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

Table 15. Computer environment

	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) NOTE: Maximum dew point temperature = 26°C	5% to 95% (non-condensing) NOTE: Maximum dew point temperature = 33°C
Vibration (maximum)*	0.26 GRMS	1.37 GRMS
Shock (maximum)	40 G†	105 G‡

* 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.

‡ Measured using a 2 ms half-sine pulse when the hard-drive head is in parked position.

Intel Optane memory

Enabling Intel Optane memory

- 1 On the taskbar, click the search box, and then type `Intel Rapid Storage Technology`.
- 2 Click **Intel Rapid Storage Technology**.
The **Intel Rapid Storage Technology** window is displayed.
- 3 On the **Status** tab, click **Enable** to enable the Intel Optane memory.
- 4 On the warning screen, select a compatible fast drive, and then click **Yes** to continue enabling Intel Optane memory.
- 5 Click **Intel Optane memory** > **Reboot** to complete enabling your Intel Optane memory.

 **NOTE:** Applications may take up to three subsequent launches after enablement to see the full performance benefits.

Disabling Intel Optane memory

 **CAUTION:** Do not try to remove the Intel Rapid Storage Technology driver after disabling Intel Optane memory, it will result in a blue screen error. The Intel Rapid Storage Technology user interface can be removed without uninstalling the driver.

 **NOTE:** Disabling Intel Optane memory is required before removing the SATA storage device accelerated by the Intel Optane memory or the Intel Optane memory module from the system.

- 1 On the taskbar, click the search box, and then type `Intel Rapid Storage Technology`.
- 2 Click **Intel Rapid Storage Technology**.
The **Intel Rapid Storage Technology** window is displayed.
- 3 On the **Intel Optane memory** tab, click **Disable** to disable the Intel Optane memory.
- 4 Click **Yes** if you accept the warning.
The disabling progress is displayed.
- 5 Click **Reboot** to complete disabling your Intel Optane memory and restart your computer.

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 16. Self-help resources

Information about Dell products and services

www.dell.com

Dell Help & Support 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

Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on.

www.dell.com/support

Dell knowledge base articles for a variety of computer concerns.

- 1 Go to www.dell.com/support.
- 2 Type the subject or keyword in the **Search** box.
- 3 Click **Search** to retrieve the related articles.

Learn and know the following information about your product:

- Product specifications
- Operating system
- Setting up and using your product
- Data backup
- Troubleshooting and diagnostics
- Factory and system restore
- BIOS information

See *Me and My Dell* at www.dell.com/support/manuals.

To locate the *Me and My Dell* relevant to your product, identify your product through one of the following:

- Select **Detect Product**.
- Locate your product through the drop-down menu under **View Products**.
- Enter the **Service Tag number** or **Product ID** in the search bar.

Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see www.dell.com/contactdell.

NOTE: Availability varies by country and product, and some services may not be available in your country.

NOTE: If you do not have an active internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.