Inspiron Gaming Desktop
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.**

Contents

Set up your computer

1   Connect the keyboard and mouse.

2   Connect to your network using a cable.

ⓘ | **NOTE: Alternatively, you can connect to a wireless network.**

3   Connect the display.

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

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 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

Proactively checks the health of your computer's hardware and software.

ⓘ │ NOTE: Renew or upgrade your warranty by clicking the warranty expiry date in SupportAssist.

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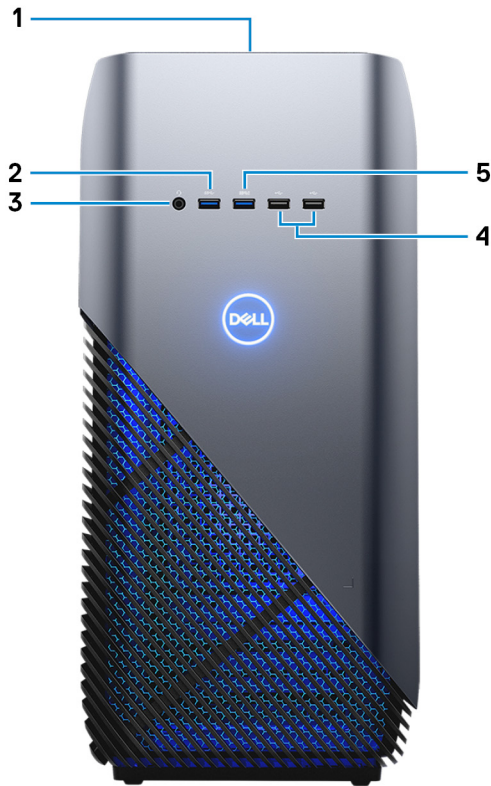
ⓘ **NOTE: This process may take up to an hour to complete.**

ⓘ **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.

Views

Front

1 **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 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.

2 **USB 3.1 Gen 1 port**

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

3 **Headset port**

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

4 **USB 2.0 ports (2)**

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

5   **USB 3.1 Gen 1 port with PowerShare**

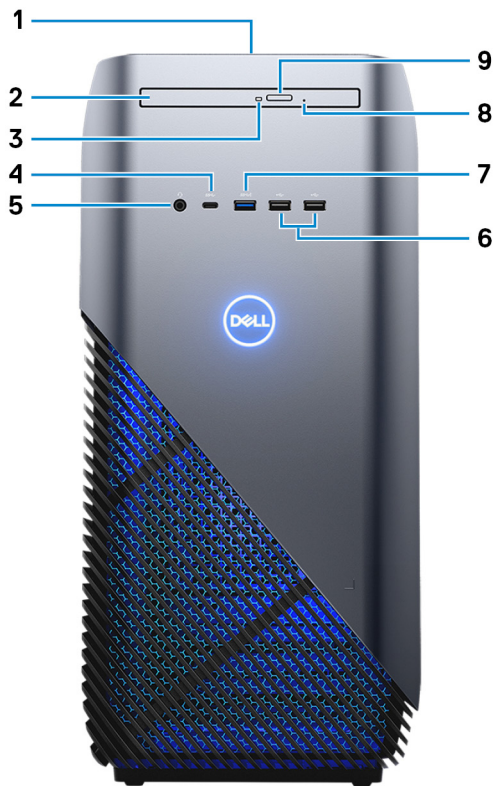Connect peripherals such as external storage devices and printers.

Provides data transfer speeds up to 5 Gbps. PowerShare enables you to charge your USB devices even when your computer is turned off.

> ⓘ **NOTE: If the charge on your computer's battery is less than 10 percent, you must connect the power adapter to charge your computer, and USB devices connected to the PowerShare port.**

> ⓘ **NOTE: If a USB device is connected to the PowerShare port before the computer is turned off or in hibernate state, you must disconnect and connect it again to enable charging.**

> ⓘ **NOTE: Certain USB devices may not charge when the computer is turned off or in sleep state. In such cases, turn on the computer to charge the device.**

Front (with optical drive)

1   **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 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.**

2 **Slim optical drive**

Reads from and writes to CDs, DVDs, and Blu ray discs.

3 **Optical-drive activity light**

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

4 **USB 3.1 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.**

5 **Headset port**

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

6 **USB 2.0 ports (2)**

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

7 **USB 3.1 Gen 1 port with PowerShare**

Connect peripherals such as external storage devices and printers.

Provides data transfer speeds up to 5 Gbps. PowerShare enables you to charge your USB devices even when your computer is turned off.

ⓘ **NOTE: If the charge on your computer's battery is less than 10 percent, you must connect the power adapter to charge your computer, and USB devices connected to the PowerShare port.**

ⓘ **NOTE: If a USB device is connected to the PowerShare port before the computer is turned off or in hibernate state, you must disconnect and connect it again to enable charging.**

ⓘ **NOTE: Certain USB devices may not charge when the computer is turned off or in sleep state. In such cases, turn on the computer to charge the device.**

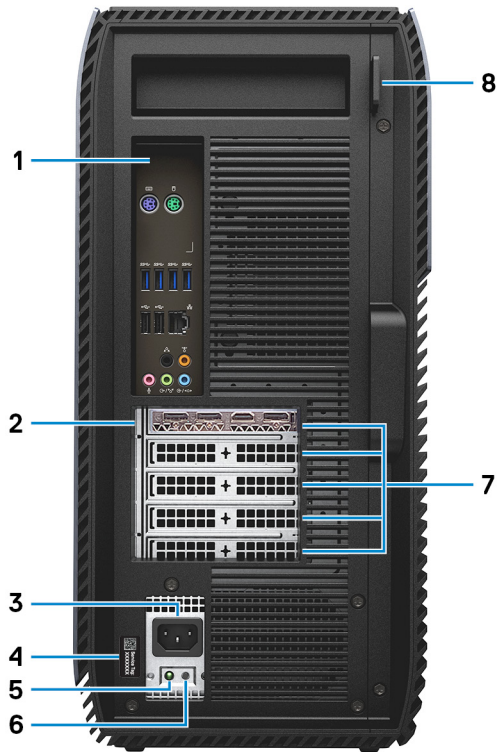8 **Optical-drive emergency eject pinhole**

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 at www.dell.com/support.**

9 **Optical-drive eject button**

Press to open the optical drive tray.

Back

1 **Back panel**

   Connect USB, audio, video, and other devices.

2 **Discrete graphics-card ports**

   Connect external displays to corresponding ports on the discrete graphics card.

3 **Power port**

   Connect a power cable to provide power to your computer.

4 **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.

5 **Power-supply diagnostics light**

   Indicates the power-supply state.

6 **Power-supply diagnostics button**

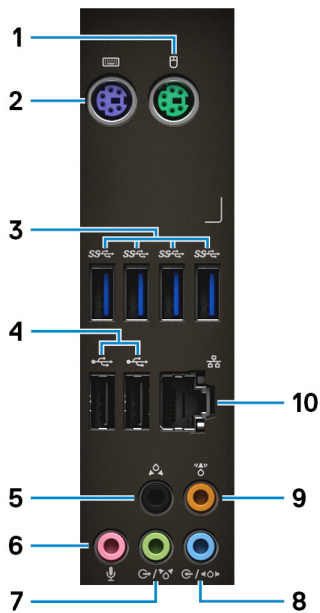   Press to check the power-supply state.

7 **Expansion-card slots (5)**

   Connect a PCI/PCI-Express card such as graphics, audio, or network card to enhance the capabilities of your computer.

8 **Padlock ring(s)**

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

Back panel

1 **PS/2 port (mouse)**

   Connect a PS/2 mouse.

2 **PS/2 port (keyboard)**

   Connect a PS/2 keyboard.

3 **USB 3.1 Gen 1 ports (4)**

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

4 **USB 2.0 ports (2)**

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

5 **Rear L/R surround port**

   Connect audio-output devices such as speakers and amplifiers. In a 5.1 speaker channel setup, connect the rear-left and rear-right speakers.

6 **Microphone port**

   Connect an external microphone to provide sound input.

7 **Line-out/Front L/R surround port**

   Connect audio-output devices such as speakers and amplifiers. If you have a surround-sound speaker system, connect the front-left and front-right speakers to this port.

8 **Line-in/Side L/R surround port**

   Connect recording or playback devices such as a microphone and CD player. If you have a surround-sound speaker system, connect the side-left and side-right speakers to this port.

9 **Center/subwoofer LFE surround port**

   Connect the subwoofer.

ⓘ **NOTE: For more information about speaker setup, refer to the documentation that shipped with the speakers.**

10   **Network port**

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

Specifications

Computer model

Inspiron 5676

Dimensions and weight

Table 2. Dimensions and weight

Height:	
Front	458.86 mm (18.07 in)
Rear	449.25 mm (17.69 in)
Width	216 mm (8.50 in)
Depth	437.53 mm (17.23 in)
Weight	13.742 kg (30.27 lb)

ⓘ **NOTE: The weight of your computer depends on the configuration ordered and the manufacturing variability.**

Processors

Table 3. Processors

Processors	AMD Ryzen 5 1400	AMD Ryzen 7 2700	AMD Ryzen 7 2700X
Wattage	65 W	65 W	95 W
Core count/Thread count	4/8	8/16	8/16
Speed	Up to 3.4 GHz Precision Boost	Up to 4.1 GHz Max Boost	Up to 4.3 GHz Max Boost
L2 Cache	2 MB	4 MB	4 MB
L3 Cache	8 MB	16 MB	16 MB
Integrated graphics	Not supported	Not supported	Not supported

Chipset

Table 4. Chipset

Chipset	AMD promontory X370
DRAM bus width	Not supported
Flash EPROM	16 MB
PCIe bus	PCIe Gen2
External bus frequency	PCIe Gen3x4

Operating system

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

Memory

Table 5. Memory specifications

Slots	Two UDIMM slots
Type	DDR4
Speed	2400 MHz
Maximum memory	32 GB
Minimum memory	8 GB
Memory size per slot	4 GB, 8 GB, and 16 GB
Configurations supported:	· 8 GB DDR4 at 2400 MHz (2 x 4 GB) · 16 GB DDR4 at 2400 MHz (2x 8 GB) · 32 GB DDR4 at 2400 MHz (2 x 16 GB)

Ports and connectors

Table 6. Ports and connectors

Front	
USB	· Two USB 2.0 ports · One USB 3.1 Gen 1 port (without optical drive) · One USB 3.1 Gen 1 (Type-C) port (with optical drive)

	• One USB 3.1 Gen 1 port with PowerShare
Audio	One headset port

Back

Network	One RJ-45 port
USB	• Two USB 2.0 ports • Four USB 3.1 Gen 1 ports
Audio	• One Microphone port • One rear L/R surround port • One line-out/front L/R surround port • One line-in/side L/R surround port • One center/subwoofer LFE surround port
Video	One HDMI-out 2.0 port
Memory card reader	Not supported
Micro subscriber identity module (uSIM) card	Not supported
Docking port	Not supported
Express card	Not supported
Power port	Not supported
Smart card reader	Not supported
Security	Padlock rings
Legacy ports	Two PS/2 ports

Internal

Expansion	• Two PCIe x16 slots • Two PCIe x1 slots
M.2	• One M.2 slot for Wi-Fi and Bluetooth combo card • Two PCIe/SATA M.2 2280 slots for solid-state drive

ⓘ **NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article SLN301626.**

Video

Table 7. Video specifications

Discrete graphics

Controller	External display support	Memory size	Memory Type
GT 1030	One DVI port and one HDMI port	2 GB	GDDR5
GTX 1050	One DVI port, one HDMI port, and one DisplayPort	2 GB	GDDR5
GTX 1060	One DVI port, one HDMI port, and three DisplayPort	3 GB	GDDR5
GTX 1060	One DVI port, one HDMI port, and three DisplayPort	6 GB	GDDR5
RX 560	One DVI port, one HDMI port, and one DisplayPort	2 GB	GDDR5
RX 570	One DVI port, one HDMI port, and three DisplayPort	4 GB	GDDR5
RX 580	One DVI port, one HDMI port, and three DisplayPort	4 GB	GDDR5
RX 580	One DVI port, one HDMI port, and three DisplayPort	8 GB	GDDR5

Audio

Table 8. Audio specifications

Type	Integrated 7.1 channel High Definition Audio
Controller	Realtek ALC3861
Internal interface	High-definition audio
External interface	7.1 channel output, Microphone-in, stereo headphones, and headset combo connector

Communications

Ethernet

Table 9. Ethernet specifications

Model number	Realtek RTL8111H Ethernet controller (integrated on system board)
Transfer rate	10/100/1000 Mbps

Wireless module

Model number	Qualcomm QCA9377 (DW1810)
Transfer rate	Up to 433 Mbps
Frequency bands supported	Dual band 2.4 GHz/5 GHz
Wireless standards	• Wi-Fi 802.11ac • Wi-Fi 802.11a/b/g/n
Encryption	• 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth	Bluetooth 4.1

Storage

Table 11. Storage specifications

Storage type	Interface type	Capacity
Two 3.5-inch hard drives	SATA AHCI 6 Gbps	Up to 2 TB
One 2.5-inch hard drive	SATA AHCI 6 Gbps	Up to 1 TB
Two M.2 2280 solid-state drives	• SATA AHCI 6 Gbps • PCIe NVMe up to 32 Gbps	Up to 512 GB

Power ratings

Table 12. Power ratings

Type	460 W
Input voltage	100 VAC to 240 VAC
Input frequency	50 Hz to 60 Hz
Input current	8.0 A
Temperature range	
Operating	5°C to 50°C (41°F to 122°F)
Storage	-40°C to 70°C (-40°F to 158°F)

Computer environment

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

Table 13. Computer environment

	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 (maximum)	−15.2 m to 3,048 m (−50 ft to 10,000 ft)	−15.2 m to 10,668 m (−50 ft to 35,000 ft)

* 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.

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 14. 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.**