

# Dell G7 7700

## 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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# Set up your Dell G7 7700

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

1. Connect the power adapter and press the power button.



**NOTE:** The battery may go into power-saving mode during shipment to conserve charge on the battery. Ensure that the power adapter is connected to your computer when it is turned on for the first time.

2. 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.

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

**Table 1. Locate Dell apps**

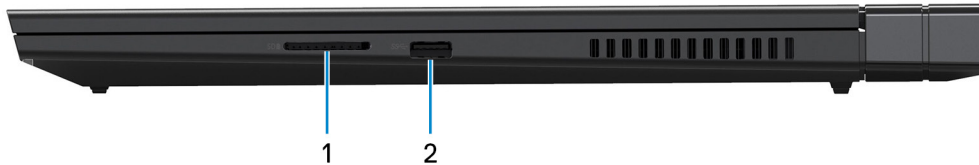
Resources	Description
	<p><b>My Dell</b></p> <p>Centralized location for key Dell applications, help articles, and other important information about your computer. It also notifies you about the warranty status, recommended accessories, and software updates if available.</p>
	<p><b>SupportAssist</b></p> <p>Proactively 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 <a href="http://www.dell.com/support">www.dell.com/support</a>.</p> <p><b>NOTE:</b> In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p>

**Table 1. Locate Dell apps(continued)**

Resources	Description
	<p><b>Dell Update</b></p> <p>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 <a href="https://www.dell.com/support/article/SLN305843">SLN305843</a> at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p>
	<p><b>Dell Digital Delivery</b></p> <p>Download software applications, which are purchased but not pre-installed on your computer. For more information about using Dell Digital Delivery, see the knowledge base article <a href="https://www.dell.com/support/article/153764">153764</a> at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p>

## Views of Dell G7 7700

### Right



#### 1. SD-card slot

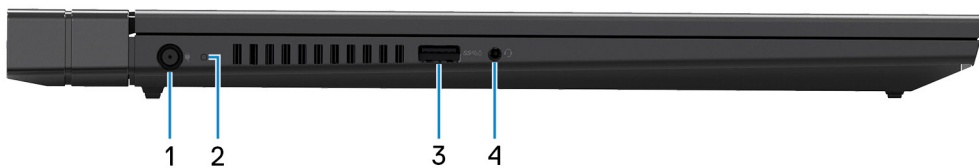
Reads from and writes to the SD card. The computer supports the following card types:

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

#### 2. USB 3.2 Gen 1 port

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

### Left



#### 1. Power-adaptor port

Connect a power adapter to provide power to your computer and charge the battery.

#### 2. Power and battery-status light/hard-drive activity light

Indicates the battery-charge status or the hard-drive activity.

**NOTE:** Press **Fn+H** to toggle between the power and battery-status light, and hard-drive activity light.

##### Hard-drive activity light (for computers shipped with a hard drive)

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

##### Power and battery-status light

Indicates the power and battery-charge status.

**Solid white** — Power adapter is connected and the battery has more than 5% charge.

**Amber** — Computer is running on battery and the battery has less than 5% charge.

##### Off

- Power adapter is connected and the battery is fully charged.
- Computer is running on battery and the battery has more than 5% charge.
- Computer is in sleep state, hibernation, or turned off.

#### 3. USB 3.2 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 your computer is turned off or in hibernate state, you must connect the power adapter to charge your devices using the PowerShare port. You must enable this feature in the BIOS setup program.

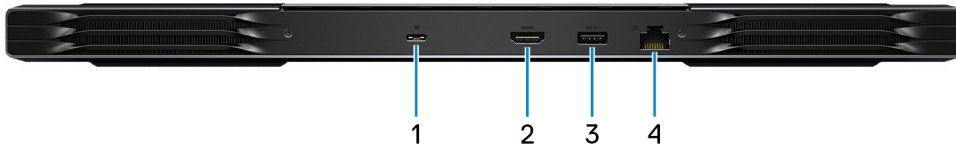
**NOTE:** Certain USB devices may not charge when the computer is turned off or in sleep state. In such cases, turn on the computer to charge the device.

#### 4. Headset port

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

## Back

### Computers shipped with NVIDIA GeForce GTX 1650 Ti



#### 1. USB 3.2 Gen 2 Type-C port with DisplayPort

Connect peripherals such as external storage devices, printers, and external displays. Provides data transfer rate of up to 10 Gbps. Supports DisplayPort 1.4 and also enables you to connect an external display using a USB Type-C to DisplayPort adapter.

**NOTE:** A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

#### 2. HDMI port

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

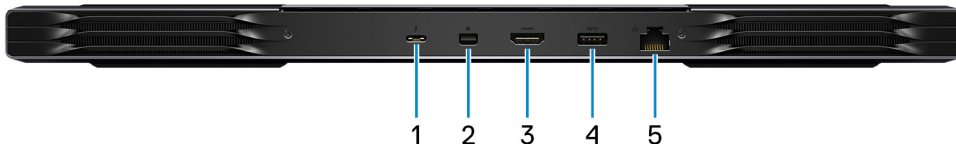
#### 3. USB 3.2 Gen 1 port

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

#### 4. Network port

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

### Computers shipped with NVIDIA GeForce GTX 1660 Ti, RTX 2060, RTX 2070, or RTX 2070 Super



#### 1. Thunderbolt 3 USB Type-C port

Connect peripherals such as external storage devices, printers, and external displays. Provides data transfer rate of up to 10 Gbps. Supports DisplayPort 1.4 and also enables you to connect an external display using a USB Type-C to DisplayPort adapter.

**NOTE:** A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

#### 2. Mini DisplayPort

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

#### 3. HDMI port

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

#### 4. USB 3.2 Gen 1 port

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

#### 5. Network port

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

# Base



## 1. Touchpad

Move your finger on the touchpad to move the mouse pointer. Tap to left-click and two finger tap to right-click.

## 2. Left-click area

Press to left-click.

## 3. Right-click area

Press to right-click.

## 4. Power button with optional fingerprint reader

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 4 seconds to force shut-down the computer.

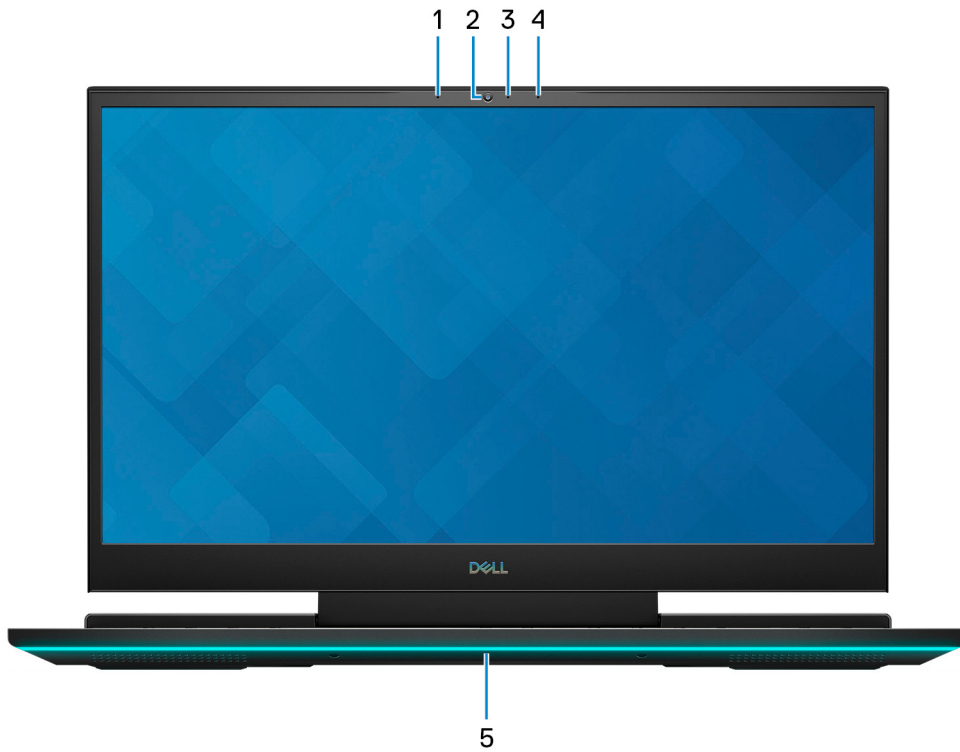
If the power button has a fingerprint reader, place your finger on the power button to log in.



**NOTE:** You can customize power-button behavior in Windows. For more information, see *Me and My Dell* at [www.dell.com/support/manuals](http://www.dell.com/support/manuals).



# Display



- 1. Left microphone**  
Provides digital sound input for audio recording and voice calls.
- 2. Camera**  
Enables you to video chat, capture photos, and record videos.
- 3. Camera-status light**  
Turns on when the camera is in use.
- 4. Right microphone**  
Provides digital sound input for audio recording and voice calls.
- 5. Dynamic chassis light**  
Dynamic lighting that can be controlled using the Alienware Command Center.

# Bottom



**1. Left speaker**

Provides audio output.

**2. Right speaker**

Provides audio output.

**3. 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.

# Specifications of Dell G7 7700

## Dimensions and weight

The following table lists the height, width, depth, and weight of your Dell G7 7700.

**Table 2. Dimensions and weight**

Description	Values
Height:	
Front height	19.30 mm (0.76 in.)
Rear height	20.70 mm (0.81 in.)
Width	398.20 mm (15.68 in.)
Depth	290 mm (11.42 in.)
Weight (maximum)	3.29 kg (7.25 lb)  <b>NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.</b>

## Processor

The following table lists the details of the processors supported by your Dell G7 7700.

**Table 3. Processor**

Description	Option one	Option two	Option three
Processor type	10 <sup>th</sup> Generation Intel Core i5-10300H	10 <sup>th</sup> Generation Intel Core i7-10750H	10 <sup>th</sup> Generation Intel Core i9-10885H
Processor wattage	45 W	45 W	45 W
Processor core count	4	6	8
Processor thread count	8	12	16
Processor speed	Up to 4.5 GHz	Up to 5 GHz	Up to 5.3 GHz
Processor cache	8 MB	12 MB	16 MB
Integrated graphics	Intel UHD Graphics	Intel UHD Graphics	Intel UHD Graphics

# Chipset

The following table lists the details of the chipset supported by your Dell G7 7700.

**Table 4. Chipset**

Description	Values
Chipset	HM470
Processor	10 <sup>th</sup> Generation Intel Core i5/i7/i9
DRAM bus width	64-bit
Flash EPROM	24 MB
PCIe bus	Up to Gen3

# Operating system

Your Dell G7 7700 supports the following operating systems:

- Windows 10 Home, 64-bit
- Windows 10 Professional, 64-bit

# Memory

The following table lists the memory specifications of your Dell G7 7700.

**Table 5. Memory specifications**

Description	Values
Memory slots	Two SODIMM slots
Memory type	Dual-channel DDR4
Memory speed	2933 MHz
Maximum memory configuration	32 GB
Minimum memory configuration	8 GB
Memory size per slot	4 GB, 8 GB, 16 GB
Memory configurations supported	<ul style="list-style-type: none"><li>• 8 GB, 2 x 4 GB, DDR4, 2933 MHz, SODIMM, dual-channel</li><li>• 16 GB, 2 x 8 GB, DDR4, 2933 MHz, SODIMM, dual-channel</li><li>• 32 GB, 2 x 16 GB, DDR4, 2933 MHz, SODIMM, dual-channel</li></ul>

# External ports

The following table lists the external ports of your Dell G7 7700.

**Table 6. External ports**

Description	Values
Network port	One RJ45 port

**Table 6. External ports(continued)**

Description	Values
USB ports	<ul style="list-style-type: none"> <li>One USB 3.2 Gen 1 port with PowerShare</li> <li>Two USB 3.2 Gen 1 ports</li> <li>One USB 3.2 Gen 2 Type-C port with Power Delivery and DisplayPort (only in computers shipped with NVIDIA GeForce GTX 1650Ti graphics card)</li> <li>One Thunderbolt 3 Type-C port (only in computers shipped with NVIDIA GeForce GTX 1660Ti, RTX 2060, RTX 2070, or RTX 2070 Super graphics card)</li> </ul> <p><b>NOTE:</b> Your computer supports either one USB 3.2 Gen 2 (Type-C) port with Power Delivery and DisplayPort or one Thunderbolt 3 port.</p>
Audio port	One headset (headphone and microphone combo) port
Video port	<ul style="list-style-type: none"> <li>One HDMI 2.0 port</li> <li>One Mini DisplayPort 1.4 (only in computers shipped with NVIDIA GeForce GTX 1660Ti, RTX 2060, RTX 2070, or RTX 2070 Super graphics card)</li> </ul>
Media-card reader	One SD-card slot
Docking port	Supported through USB Type-C port
Power-adaptor port	One 7.4 mm x 5.1 mm power-adaptor port
Security	Not supported

## Internal slots

The following table lists the internal slots of your Dell G7 7700.

**Table 7. Internal slots**

Description	Values
M.2	<ul style="list-style-type: none"> <li>One M.2 2230 slot for WiFi and Bluetooth combo card</li> <li>One M.2 2230/2280 slot for solid-state drive/Intel Optane memory (only in computers shipped with NVIDIA GeForce GTX 1650Ti graphics card)</li> <li>Two M.2 2230/2280 slots for solid-state drive (only in computers shipped with NVIDIA GeForce GTX 1660Ti, RTX 2060, RTX 2070, or RTX 2070 Super graphics card)</li> </ul> <p><b>NOTE:</b> To learn more about the features of different types of M.2 cards, see the knowledge base article <a href="https://www.dell.com/support/sln/SLN301626">SLN301626</a> at <a href="https://www.dell.com/support">www.dell.com/support</a>.</p>

# Communications

## Ethernet

**Table 8. Ethernet specifications**

Description	Values
Model number	<ul style="list-style-type: none"> <li>Realtek RTL8111H Gigabit ethernet controller (only in computers shipped with NVIDIA GeForce GTX 1650Ti graphics card)</li> <li>Killer E2500V2 PCI-e Gigabit ethernet controller (only in computers shipped with NVIDIA GeForce GTX 1660Ti, RTX 2060, RTX 2070, or RTX 2070 Super graphics card)</li> </ul>
Transfer rate	10/100/1000 Mbps

## Wireless module

**Table 9. Wireless module specifications**

Description	Options			
Model number	Killer 1650i	Intel AX201	Intel 9560	Qualcomm QCA61x4A (DW1820)
Transfer rate	Up to 2400 Mbps	Up to 2400 Mbps	Up to 1733 Mbps	Up to 867 Mbps
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz	2.4 GHz/5 GHz	2.4 GHz/5 GHz
Wireless standards	<ul style="list-style-type: none"> <li>WiFi 802.11a/b/g</li> <li>Wi-Fi 4 (WiFi 802.11n)</li> <li>Wi-Fi 5 (WiFi 802.11ac)</li> <li>Wi-Fi 6 (WiFi 802.11ax)</li> </ul>	<ul style="list-style-type: none"> <li>WiFi 802.11a/b/g</li> <li>Wi-Fi 4 (WiFi 802.11n)</li> <li>Wi-Fi 5 (WiFi 802.11ac)</li> <li>Wi-Fi 6 (WiFi 802.11ax)</li> </ul>	<ul style="list-style-type: none"> <li>WiFi 802.11a/b/g</li> <li>Wi-Fi 4 (WiFi 802.11n)</li> <li>Wi-Fi 5 (WiFi 802.11ac)</li> </ul>	<ul style="list-style-type: none"> <li>WiFi 802.11a/b/g</li> <li>Wi-Fi 4 (WiFi 802.11n)</li> <li>Wi-Fi 5 (WiFi 802.11ac)</li> </ul>
Encryption	<ul style="list-style-type: none"> <li>64-bit/128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul>	<ul style="list-style-type: none"> <li>64-bit/128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul>	<ul style="list-style-type: none"> <li>64-bit/128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul>	<ul style="list-style-type: none"> <li>64-bit/128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul>
Bluetooth	Bluetooth 5.1	Bluetooth 5.1	Bluetooth 5.0	Bluetooth 5.0

## Audio

The following table lists the audio specifications of your Dell G7 7700.

**Table 10. Audio specifications**

Description	Values
Audio controller	Realtek ALC3281 with Nahimic 3D Audio for Gamers
Stereo conversion	Supported
Internal audio interface	Intel High-Definition Audio (HDA) via HDMI

**Table 10. Audio specifications(continued)**

Description		Values
External audio interface		Headset combo connector/Digital-array microphone input on camera module
Number of speakers		Two
Internal-speaker amplifier		Supported (audio codec built-in amplifier)
External volume controls		Keyboard shortcut controls
Speaker output:		
	Average speaker output	2 W
	Peak speaker output	2.5 W
Subwoofer output		Not supported
Microphone		Dual-array microphones

## Storage

This section lists the storage options on your Dell G7 7700.

Your Dell G7 7700 supports various storage configurations, depending on the computer configuration ordered.

- If your computer is shipped with NVIDIA GeForce GTX 1650Ti graphics card, it has one of the following storage options:
  - One 2.5-inch hard drive (for computers shipped with 3-cell, 56 WHr battery)
  - One 2.5-inch hard drive and one Intel Optane Memory M10 (for computers shipped with 3-cell, 56 WHr battery)
  - One M.2 2230 or M.2 2280 solid-state drive (for computers shipped with 3-cell, 56 WHr or 6-cell, 97 WHr battery)

**NOTE:** The solid-state drive is secured to the system board by a solid-state drive bracket that is specific to the form factor of the solid-state drive. If you are replacing a solid-state drive, ensure that the new solid-state drive has the same form factor. For example, replace an M.2 2280 solid-state drive with an M.2 2280 solid-state drive.
- If your computer is shipped with NVIDIA GeForce GTX 1660Ti, RTX 2060, RTX 2070, or RTX 2070 Super graphics card, it has one of the following storage options:
  - Up to two M.2 2230 solid-state drives
  - Up to two M.2 2280 solid-state drives
  - One M.2 2230 solid-state drive and one M.2 2280 solid-state drive

**NOTE:** The solid-state drive is secured to the system board by a solid-state drive bracket that is specific to the form factor of the solid-state drive. If you are replacing a solid-state drive, ensure that the new solid-state drive has the same form factor. For example, replace an M.2 2280 solid-state drive with an M.2 2280 solid-state drive.

The primary drive of your Dell G7 7700 varies with the storage configuration. For computers:

- with an M.2 solid-state drive, the M.2 solid-state drive is the primary drive
- without an M.2 solid-state drive, the 2.5-inch hard drive is the primary drive

**Table 11. Storage specifications**

Storage type	Interface type	Capacity
2.5-inch hard drive <b>NOTE:</b> Applies only to computers shipped with NVIDIA GeForce GTX 1650Ti graphics card and 3-cell, 56 WHr battery)	SATA AHCI, up to 6 Gbps	Up to 2 TB

**Table 11. Storage specifications(continued)**

Storage type	Interface type	Capacity
M.2 2230/2280 solid-state drive	PCIe Gen3 x4 NVMe	Up to 1 TB (M.2 2230) and 2 TB (M.2 2280)
M.2 2280 Intel Optane memory	PCIe Gen3 x2 NVMe	Up to 32 GB

## 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:

- 7<sup>th</sup> Generation or higher Intel Core i3/i5/i7 processor
- Windows 10 64-bit version or higher (Anniversary Update)
- Latest version of Intel Rapid Storage Technology driver

**Table 12. Intel Optane memory**

Description	Values
Type	Storage accelerator
Interface	PCIe 3.0x2
Connector	M.2 2280
Configurations supported	32 GB
Capacity	32 GB

## Media-card reader

The following table lists the media cards supported by your Dell G7 7700.

**Table 13. Media-card reader specifications**

Description	Values
Media-card type	One SD card
Media-cards supported	<ul style="list-style-type: none"><li>• Secure Digital (SD)</li><li>• Secure Digital High Capacity (SDHC)</li><li>• Secure Digital Extended Capacity (SDXC)</li></ul>
<b>NOTE:</b> The maximum capacity supported by the media-card reader varies depending on the standard of the media card installed in your computer.	

## Keyboard

The following table lists the keyboard specifications of your Dell G7 7700.

**Table 14. Keyboard specifications**

Description	Values
Keyboard type	Four-zone RGB backlit keyboard



**Table 14. Keyboard specifications(continued)**

Description	Values
Keyboard layout	QWERTY
Number of keys	<ul style="list-style-type: none"> <li>· United States and Canada: 103 keys</li> <li>· United Kingdom: 104 keys</li> <li>· Japan: 107 keys</li> </ul>
Keyboard size	X=19.05 mm key pitch Y=19.05 mm key pitch
Keyboard shortcuts	<p>Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. To type the alternate character, press Shift and the desired key. To perform secondary functions, press the fn key and the desired key.</p> <p><b>NOTE: You can define the primary behavior of the function keys (F1–F12) changing Function Key Behavior in BIOS setup program.</b></p>

## Camera

The following table lists the camera specifications of your Dell G7 7700.

**Table 15. Camera specifications**

Description	Values
Number of cameras	One
Camera type	HD RGB camera
Camera location	Front
Camera sensor type	CMOS sensor technology
Camera resolution:	
Still image	0.92 megapixel
Video	1280 x 720 (HD) at 30 fps
Diagonal viewing angle:	74.9 degrees

## Touchpad

The following table lists the touchpad specifications of your Dell G7 7700.

**Table 16. Touchpad specifications**

Description	Values
Touchpad resolution:	
Horizontal	1349
Vertical	929
Touchpad dimensions:	

**Table 16. Touchpad specifications(continued)**

Description		Values
	Horizontal	115 mm (4.53 in.)
	Vertical	80 mm (3.15 in.)
Touchpad gestures		For more information about touchpad gestures available on Windows 10, see the Microsoft knowledge base article <a href="https://support.microsoft.com">4027871</a> at <a href="https://support.microsoft.com">support.microsoft.com</a> .

## Power adapter

The following table lists the power adapter specifications of your Dell G7 7700.

**Table 17. Power adapter specifications**

Description		Option one	Option two
Type		E4 130 W	E4 240 W
Connector dimensions:			
	External diameter	7.40 mm	7.40 mm
	Internal diameter	5.10 mm	5.10 mm
Input voltage		100 VAC–240 VAC	100 VAC–240 VAC
Input frequency		50 Hz–60 Hz	50 Hz–60 Hz
Input current (maximum)		<ul style="list-style-type: none"> <li>• 1.80 A</li> <li>• 2.50 A</li> </ul>	3.50 A
Output current (continuous)		6.70 A	12.31 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)


## Battery

The following table lists the battery specifications of your Dell G7 7700.

**Table 18. Battery specifications**

Description		Option one	Option two
Battery type		3-cell (56 WHr) "smart" lithium-ion	6-cell (97 WHr) "smart" lithium-ion
Battery voltage		11.40 VDC	11.40 VDC
Battery weight (maximum)		0.24 kg (0.53 lb)	0.34 kg (0.75 lb)
Battery dimensions:			
	Height	7.20 mm (0.28 in.)	7.20 mm (0.28 in.)

**Table 18. Battery specifications(continued)**

Description		Option one	Option two
	Width	71.80 mm (2.83 in.)	71.80 mm (2.83 in.)
	Depth	223.20 mm (8.79 in.)	330.50 mm (13.01 in.)
Temperature range:			
	Operating	0°C to 35°C (32°F to 95°F)	0°C to 35°C (32°F to 95°F)
	Storage	-40°C to 65°C (-40°F to 149°F)	-40°C to 65°C (-40°F to 149°F)
Battery operating time		Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Battery charging time (approximate)		<ul style="list-style-type: none"> <li>· 4 hours (when the computer is off)</li> <li>· 2 hours (ExpressCharge)</li> </ul>	4 hours (when the computer is off)
 <b>NOTE: Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see, <i>Me and My Dell</i> on <a href="http://www.dell.com/">www.dell.com/</a></b>			
Battery life span (approximate)		300 discharge/charge cycles	300 discharge/charge cycles
Coin-cell battery		CR2032	CR2032

## Display

The following table lists the display specifications of your Dell G7 7700.

**Table 19. Display specifications**

Description		Option one	Option two
Display type		Full High Definition (FHD)	Full High Definition (FHD)
Display-panel technology		Wide-Viewing Angle (WVA)	Wide-Viewing Angle (WVA)
Display-panel dimensions (active area):			
	Height	214.81 mm (8.46 in.)	214.81 mm (8.46 in.)
	Width	381.99 mm (15.04 in.)	381.99 mm (15.04 in.)
	Diagonal	438.16 mm (17.25 in.)	438.16 mm (17.25 in.)
Display-panel native resolution		1920 x 1080	1920 x 1080
Luminance (typical)		300 nits	300 nits
Megapixels		2.07	2.07
Color gamut		72% NTSC (Typical)	72% NTSC (Typical)
Pixels Per Inch (PPI)		127	127

**Table 19. Display specifications(continued)**

Description	Option one	Option two
Contrast ratio (min)	600 : 1	600 : 1
Response time (typ)	25 ms	19 ms
Refresh rate	60 Hz	144 Hz
Horizontal view angle	+/- 85 degrees	+/- 85 degrees
Vertical view angle	+/- 85 degrees	+/- 85 degrees
Pixel pitch	0.1989 mm	0.1989 mm
Power consumption (maximum)	8 W	8.50 W
Anti-glare vs glossy finish	Anti-glare	Anti-glare
Touch options	No	No

## Fingerprint reader (optional)

The following table lists the specifications of the optional fingerprint-reader of your Dell G7 7700.

**Table 20. Fingerprint reader specifications**

Description	Values
Fingerprint-reader sensor technology	Capacitive
Fingerprint-reader sensor resolution	500 dpi
Fingerprint-reader sensor area	5.5 mm x 4.5 mm
Fingerprint-reader sensor pixel size	80 x 64

## GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Dell G7 7700.

**Table 21. GPU—Integrated**

Controller	External display support	Memory size	Processor
Intel UHD Graphics	HDMI 1.4 port	Shared system memory	10 <sup>th</sup> Generation Intel Core i5/i7/i9

## GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Dell G7 7700.

**Table 22. GPU—Discrete**

Controller	External display support	Memory size	Memory type
NVIDIA GeForce GTX 1650 Ti	HDMI 2.0 port	4 GB	GDDR5

**Table 22. GPU—Discrete(continued)**

Controller	External display support	Memory size	Memory type
NVIDIA GeForce GTX 1660 Ti	<ul style="list-style-type: none"> <li>· HDMI 2.0 port</li> <li>· Mini DisplayPort 1.4 port</li> </ul>	6 GB	GDDR6
NVIDIA GeForce RTX 2060	<ul style="list-style-type: none"> <li>· HDMI 2.0 port</li> <li>· Mini DisplayPort 1.4 port</li> </ul>	6 GB	GDDR6
NVIDIA GeForce RTX 2070	<ul style="list-style-type: none"> <li>· HDMI 2.0 port</li> <li>· Mini DisplayPort 1.4 port</li> </ul>	8 GB	GDDR6
NVIDIA GeForce RTX 2070 Super	<ul style="list-style-type: none"> <li>· HDMI 2.0 port</li> <li>· Mini DisplayPort 1.4 port</li> </ul>	8 GB	GDDR6

## Operating and storage environment

This table lists the operating and storage specifications of your Dell G7 7700.

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

**Table 23. 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 (maximum)	-15.2 m to 3,048 m (-49.87 ft to 10,000 ft)	-15.2 m to 10,668 m (-49.87 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.

# Keyboard shortcuts

## Function keys

**NOTE:** Keyboard characters may differ depending on the keyboard language configuration. Keys used for shortcuts remain the same across all language configurations.




























Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. The symbol shown on the lower part of the key refers to the character that is typed out when the key is pressed. If you press **Shift** and the key, the symbol shown on the upper part of the key is typed out. For example, if you press **2**, **2** is typed out; if you press **Shift + 2**, **@** is typed out.

The keys **F1** to **F12** at the top row of the keyboard are function keys for multi-media control, as indicated by the icon at the bottom of the key. Press the function key to invoke the task represented by the icon. For example, pressing **F3** mutes the audio (refer to the table below).

However, if the function keys **F1** to **F12** are needed for specific software applications, multi-media functionality can be disabled by pressing **fn + Esc**. Subsequently, multi-media control can be invoked by pressing **fn** and the respective function key. For example, mute audio by pressing **fn + F3**.

**NOTE:** You can also define the primary behavior of the function keys (**F1** to **F12**) by changing **Function Key Behavior** in the BIOS setup program.

**Table 24. List of keyboard shortcuts**



















Function key	Redefined key (for multimedia control)	Behavior
	 + 	Toggle between enabling and disabling wireless connection
	 + 	Toggle between muting and unmuting audio
	 + 	Decrease volume
	 + 	Increase volume
	 + 	Toggle between enabling and disabling the Windows key
	 + 	Toggle between turning keyboard backlight on and off
	 + 	Switch to external display
	 + 	Decrease brightness
	 + 	Increase brightness

**Table 24. List of keyboard shortcuts(continued)**

Function key	Redefined key (for multimedia control)	Behavior
	 + 	Toggle between enabling and disabling the touchpad


The **fn** key is also used with selected keys on the keyboard to invoke other secondary functions.

**Table 25. List of keyboard shortcuts**

Function key	Behavior
 + 	Print screen
 + 	Insert
 + 	Toggle between power and battery-status light/hard-drive activity light
 + 	Toggle between scroll lock on and scroll lock off
 + 	Toggle between Break and Pause
 + 	Initiate system request
 + 	Open application menu
 + 	Toggle between locking and unlocking the <b>fn</b> key
 + 	Open the Emoji window

**G key**





**Table 26. G key**

Function key	Behavior
	Toggle between Windows power settings and the thermal setting for optimal gaming performance.

**Macro keys**

Macro keys can be configured to execute different gaming tasks.

Table 27. List of macro keys

Keys	Description
	<p data-bbox="807 427 927 454">Macro keys</p> <p data-bbox="807 456 1433 517"><b>NOTE:</b> You can configure modes and assign multiple tasks to the macro keys on the keyboard.</p>
	
	
	





# 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 28. Self-help resources**

Self-help resources	Resource location
Information about Dell products and services	<a href="http://www.dell.com">www.dell.com</a>
My Dell	
Tips	
Contact Support	In Windows search, type <code>Contact Support</code> , and press Enter.
Online help for operating system	<a href="http://www.dell.com/support/windows">www.dell.com/support/windows</a> <a href="http://www.dell.com/support/linux">www.dell.com/support/linux</a>
Troubleshooting information, user manuals, set up instructions, product specifications, technical help blogs, drivers, software updates, and so on.	<a href="http://www.dell.com/support">www.dell.com/support</a>
Dell knowledge base articles for a variety of computer concerns	<ol style="list-style-type: none"> <li>1. Go to <a href="http://www.dell.com/support">www.dell.com/support</a>.</li> <li>2. On the menu bar at the top of the Support page, select <b>Support &gt; Knowledge Base</b>.</li> <li>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.</li> </ol>
Learn and know the following information about your product: <ul style="list-style-type: none"> <li>• Product specifications</li> <li>• Operating system</li> <li>• Setting up and using your product</li> <li>• Data backup</li> <li>• Troubleshooting and diagnostics</li> <li>• Factory and system restore</li> <li>• BIOS information</li> </ul>	See <i>Me and My Dell</i> at <a href="http://www.dell.com/support/manuals">www.dell.com/support/manuals</a> . To locate the <i>Me and My Dell</i> relevant to your product, identify your product through one of the following: <ul style="list-style-type: none"> <li>• Select <b>Detect Product</b>.</li> <li>• Locate your product through the drop-down menu under <b>View Products</b>.</li> <li>• Enter the <b>Service Tag number</b> or <b>Product ID</b> in the search bar.</li> </ul>

## Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see [www.dell.com/contactdell](http://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.