

Specifications of Dell G7 15 7500

Dimensions and weight

The following table lists the height, width, depth, and weight of your Dell G7 15 7500.

Table 2. Dimensions and weight

Description	Values
Height:	
Front height	18.33 mm (0.72 in.)
Rear height	18.80 mm (0.74 in.)
Width	357.20 mm (14.06 in.)
Depth	267.70 mm (10.54 in.)
Weight (maximum)	2.56 kg (5.64 lb) NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.

Processor

The following table lists the details of the processors supported by your Dell G7 15 7500.

Table 3. Processor

Description	Option one	Option two	Option three
Processor type	10 th Generation Intel Core i5-10300H	10 th Generation Intel Core i7-10750H	10 th 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 4.50 GHz	Up to 5 GHz	Up to 5.30 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 15 7500.

Table 4. Chipset

Description	Values
Chipset	HM470
Processor	10 th 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 15 7500 supports the following operating systems:

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

Memory

The following table lists the memory specifications of your Dell G7 15 7500.

Table 5. Memory specifications

Description	Values
Memory slots	Two SODIMM slots
Memory type	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">• 8 GB DDR4 at 2933 MHz (2 x 4 GB), dual-channel• 12 GB DDR4 at 2933 MHz (1 x 4 GB + 1 x 8 GB)• 16 GB DDR4 at 2933 MHz (2 x 8 GB), dual-channel• 32 GB DDR4 at 2933 MHz (2 x 16 GB), dual-channel

External ports

The following table lists the external ports of your Dell G7 15 7500.

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"> One USB 3.2 Gen 1 port with PowerShare Two USB 3.2 Gen 1 ports One USB 3.2 Gen 2 Type-C port with Power Delivery and DisplayPort Alt-Mode (only on computers that are shipped with graphics card NVIDIA GeForce GTX 1650Ti) One Thunderbolt 3 USB 3.2 Gen 2 Type-C port (only on computers that are shipped with NVIDIA GeForce GTX 1660 Ti or NVIDIA GeForce RTX 2060 or NVIDIA GeForce RTX 2070 with Max-Q Design) <p>NOTE: Your computer supports either one USB 3.2 Gen 2 Type-C port with Power Delivery and DisplayPort Alt-Mode or one Thunderbolt 3 port depending on the configuration.</p>
Audio port	One headset (headphone and microphone combo) port
Video port	<ul style="list-style-type: none"> One HDMI 2.0 port One Mini DisplayPort 1.4 (only on computers shipped with NVIDIA GeForce GTX 1660 Ti or NVIDIA GeForce RTX 2060 or NVIDIA GeForce RTX 2070 with Max-Q Design)
Media-card reader	One SD-card slot
Docking port	Supported through USB Type-C port
Power-adaptor port	One 7.40 mm x 5.10 mm power-adaptor port
Security	Not supported

Internal slots

The following table lists the internal slots of your Dell G7 15 7500.

Table 7. Internal slots

Description	Values
M.2	<ul style="list-style-type: none"> One M.2 2230 slot for WiFi and Bluetooth combo card One M.2 2230/2280 slots for solid-state drive/Intel Optane storage <p>NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article SLN301626 at www.dell.com/support.</p>

Communications

Ethernet

Table 8. Ethernet specifications

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

Wireless module

Table 9. Wireless module specifications

Description	Options			
Model number	Killer 1650i	Intel 9560	Intel AX201	Qualcomm QCA61x4A
Transfer rate	Up to 2400 Mbps	Up to 1733 Mbps	Up to 2400 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">• 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)	<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)
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	<ul style="list-style-type: none">• 64-bit/128-bit WEP• AES-CCMP• TKIP
Bluetooth	Bluetooth 5.1	Bluetooth 5.0	Bluetooth 5.1	Bluetooth 5.0

Audio

The following table lists the audio specifications of your Dell G7 15 7500.

Table 10. Audio specifications

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

Table 10. Audio specifications (continued)

Description		Values
External audio interface		Universal audio jack
Number of speakers		Two
Internal-speaker amplifier		Supported (audio codec integrated 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 15 7500.

Your Dell G7 15 7500 supports one of the following storage options:

- One M.2 2230/2280 solid-state drive
- One M.2 Intel Optane Memory H10 with solid-state storage

Table 11. Storage specifications

Storage type	Interface type	Capacity
M.2 2230 solid-state drive	PCIe Gen3 x4 NVMe, up to 32 Gbps	Up to 256 GB
M.2 2230 solid-state drive	PCIe Gen3 x4 NVMe, up to 32 Gbps	Up to 512 GB
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 256 GB
M.2 2280 solid-state drive	PCIe Gen3 x4 NVMe, up to 32 Gbps	Up to 512 GB
M.2 2280 solid-state drive	PCIe Gen3 x4 NVMe, up to 32 Gbps	Up to 1 TB

Intel Optane Memory H10 with Solid State Storage (optional)

Intel Optane Memory technology utilizes 3D XPoint memory technology and functions as a non-volatile storage cache/accelerator and/or storage device depending on the Intel Optane Memory installed in your computer.

Intel Optane Memory H10 with Solid State Storage functions as both a non-volatile storage cache/accelerator (enabling enhanced read/write speeds for hard-drive storage) and a solid-state storage solution. It neither replaces nor adds to the memory (RAM) installed on your computer.

Table 12. Intel Optane Memory H10 with Solid State Storage specifications

Description	Values
Interface	PCIe 3 x4 NVMe

Table 12. Intel Optane Memory H10 with Solid State Storage specifications (continued)

Description	Values
	<ul style="list-style-type: none"> One PCIe 3 x2 for Optane memory One PCIe 3 x2 for solid-state storage
Connector	M.2
Form factor	2280
Capacity (Intel Optane memory)	Up to 32 GB
Capacity (solid-state storage)	Up to 512 GB

NOTE: Intel Optane Memory H10 with Solid State Storage is supported on computers that meet the following requirements:

- 9th Generation or higher Intel Core i3/i5/i7 processors
- Windows 10 64-bit version or higher (Anniversary Update)
- Intel Rapid Storage Technology driver version 15.9.1.1018 or higher

Media-card reader

The following table lists the media cards supported by your Dell G7 15 7500.

Table 13. Media-card reader specifications

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

Keyboard

The following table lists the keyboard specifications of your Dell G7 15 7500.

Table 14. Keyboard specifications

Description	Values
Keyboard type	Four-zone RGB backlit keyboard
Keyboard layout	QWERTY
Number of keys	<ul style="list-style-type: none"> United States and Canada: 82 keys United Kingdom: 83 keys Japan: 86 keys
Keyboard size	X =19.05 mm key pitch Y =19.05 mm key pitch
Keyboard shortcuts	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

Table 14. Keyboard specifications (continued)

Description	Values
	and the desired key. To perform secondary functions, press Fn and the desired key. NOTE: You can define the primary behavior of the function keys (F1–F12) changing Function Key Behavior in BIOS setup program. For more information, see Keyboard shortcuts .

Camera

The following table lists the camera specifications of your Dell G7 15 7500.

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 15 7500.

Table 16. Touchpad specifications

Description	Values
Touchpad resolution:	
Horizontal	1349
Vertical	929
Touchpad dimensions:	
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 4027871 at support.microsoft.com .

Power adapter

The following table lists the power adapter specifications of your Dell G7 15 7500.

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"> • 1.80 A • 2.50 A 	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 15 7500.

Table 18. Battery specifications

Description		Option one	Option two
Battery type		3-cell (56 WHr) "smart" lithium-ion	6-cell (86 WHr) "smart" lithium-ion
Battery voltage		13.20 VDC	<ul style="list-style-type: none"> • 13.20 VDC • 13.35 VDC
Battery weight (maximum)		0.26 kg (0.57 lb)	0.34 kg (0.75 lb)
Battery dimensions:			
	Height	7.56 mm (0.30 in.)	7.56 mm (0.30 in.)
	Width	295.20 mm (11.62 in.)	295.20 mm (11.62 in.)
	Depth	77.70 mm (3.06 in.)	77.70 mm (3.06 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)

Table 18. Battery specifications (continued)

Description	Option one	Option two
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) i 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 www.dell.com.	<ul style="list-style-type: none"> • 4 hours (when the computer is off) • 2 hours (ExpressCharge) 	4 hours (when the computer is off)
Coin-cell battery	CR2032	CR2032

Display

The following table lists the display specifications of your Dell G7 15 7500.

Table 19. Display specifications

Description	Option one	Option two	Option three
Display type	Full High Definition (FHD)	Full High Definition (FHD)	Ultra High Definition (UHD)
Display-panel technology	Wide-Viewing Angle (WVA)	Wide-Viewing Angle (WVA)	OLED
Display-panel dimensions (active area):			
Height	193.60 mm (7.62 in.)	193.60 mm (7.62 in.)	193.62 mm (7.62 in.)
Width	344.16 mm (13.55 in.)	344.16 mm (13.55 in.)	344.22 mm (13.55 in.)
Diagonal	394.87 mm (15.55 in.)	394.87 mm (15.55 in.)	394.94 mm (15.55 in.)
Display-panel native resolution	1920 x 1080	1920 x 1080	3840 x 2160
Luminance (typical)	300 nits	300 nits	400 nits
Megapixels	2.07	2.07	3.29
Color gamut	72% NTSC (Typical)	100% sRGB (Typical)	DCI-P3
Pixels Per Inch (PPI)	141	141	282
Contrast ratio (typ)	800:1	1000:1	100K:1
Response time (max)	19 ms	3 ms	2 ms
Refresh rate	144 Hz	300 Hz	60 Hz
Horizontal view angle	80 degrees (minimum)	80 degrees (minimum)	80 degrees (minimum)
Vertical view angle	80 degrees (minimum)	80 degrees (minimum)	80 degrees (minimum)
Pixel pitch	0.18 mm	0.18 mm	0.09 mm
Power consumption (maximum)	7.80 W	6.30 W	17.30 W

Table 19. Display specifications (continued)

Description	Option one	Option two	Option three
Anti-glare vs glossy finish	Anti-glare	Anti-glare	TrueLife
Touch options	No	No	No

Fingerprint reader (optional)

The following table lists the specifications of the optional fingerprint-reader of your Dell G7 15 7500.

Table 20. Fingerprint reader specifications

Description	Values
Fingerprint-reader sensor technology	Capacitive
Fingerprint-reader sensor resolution	500 dpi
Fingerprint-reader sensor area	11.92 mm x 7.42 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 15 7500.

Table 21. GPU—Integrated

Controller	External display support	Memory size	Processor
Intel UHD Graphics	HDMI 2.0 port	Shared system memory	10 th 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 15 7500.

Table 22. GPU—Discrete

Controller	External display support	Memory size	Memory type
NVIDIA GeForce GTX 1650 Ti	HDMI 2.0 port	4 GB	GDDR6
NVIDIA GeForce GTX 1660 Ti	<ul style="list-style-type: none"> · HDMI 2.0 port · Mini DisplayPort 1.4 port 	6 GB	GDDR6
NVIDIA GeForce RTX 2060	<ul style="list-style-type: none"> · HDMI 2.0 port · Mini DisplayPort 1.4 port 	6 GB	GDDR6
NVIDIA GeForce RTX 2070 with Max-Q Design	<ul style="list-style-type: none"> · HDMI 2.0 port · Mini DisplayPort 1.4 port 	8 GB	GDDR6

Operating and storage environment

This table lists the operating and storage specifications of your Dell G7 15 7500.

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.

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