


Dell G16 7630


Owner's Manual



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.

Chapter 1: Views of Dell G16 7630.....	6
Right.....	6
Left.....	6
Top.....	7
Front.....	8
Bottom.....	9
Back.....	9
Service Tag.....	10
Chapter 2: Set up your Dell G16 7630.....	11
Chapter 3: Specifications of Dell G16 7630.....	13
Dimensions and weight.....	13
Processor.....	13
Chipset.....	14
Operating system.....	15
Memory.....	15
External ports.....	15
Internal slots.....	16
Ethernet.....	16
Wireless module.....	16
Audio.....	17
Storage.....	17
Keyboard.....	18
Keyboard shortcuts.....	18
Camera.....	19
Touchpad.....	20
Power adapter.....	20
Battery.....	21
Display.....	22
GPU—Integrated.....	23
GPU—Discrete.....	23
Operating and storage environment.....	23
ComfortView Plus.....	24
Chapter 4: Working inside your computer.....	25
Safety instructions.....	25
Before working inside your computer.....	25
Safety precautions.....	26
Electrostatic discharge—ESD protection.....	26
ESD field service kit	27
Transporting sensitive components.....	28
After working inside your computer.....	28
BitLocker.....	28

Recommended tools.....	28
Screw list.....	28
Major components of Dell G16 7630.....	30

Chapter 5: Removing and installing Customer Replaceable Units (CRUs)..... 33

Base cover.....	33
Removing the base cover.....	33
Installing the base cover.....	36
Solid-state drive.....	38
Removing the solid-state drive.....	38
Installing the solid-state drive.....	40
Wireless card.....	41
Removing the wireless card.....	41
Installing the wireless card.....	42
Memory.....	44
Removing the memory module.....	44
Installing the memory module.....	44
Speakers.....	45
Removing the speakers.....	45
Installing the speakers.....	46
Rear cover.....	47
Removing the rear cover.....	47
Installing the rear cover.....	48

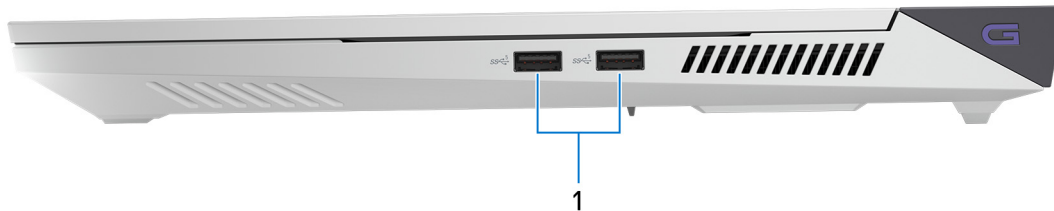
Chapter 6: Removing and installing Field Replaceable Units (FRUs)..... 50

Battery.....	50
Lithium-ion battery precautions.....	50
Removing the battery.....	50
Installing the battery.....	51
Touchpad.....	52
Removing the touchpad.....	52
Installing the touchpad.....	53
Display assembly.....	54
Removing the display assembly.....	54
Installing the display assembly.....	56
Keyboard-controller board.....	58
Removing the keyboard-controller board.....	58
Installing the keyboard-controller board.....	59
Power-adapter port.....	60
Removing the power-adapter port.....	60
Installing the power-adapter port.....	61
System board.....	62
Removing the system board	62
Installing the system board.....	65
USB board.....	68
Removing the USB board.....	68
Installing the USB board.....	69
Ethernet and audio board.....	70
Removing the ethernet and audio board.....	70

Installing the ethernet and audio board.....	71
Fan and heat-sink assembly.....	72
Removing the fan and heat-sink assembly.....	72
Installing the fan and heat-sink assembly.....	74
Power button.....	75
Removing the power button.....	75
Installing the power button.....	76
Palm-rest and keyboard assembly.....	77
Removing the palm-rest and keyboard assembly.....	77
Installing the palm-rest and keyboard assembly.....	78
Chapter 7: Software.....	80
Operating system.....	80
Drivers and downloads.....	80
Chapter 8: BIOS setup.....	81
Entering BIOS setup program.....	81
Navigation keys.....	81
One Time Boot menu.....	81
System setup options.....	82
Updating the BIOS.....	91
Updating the BIOS in Windows.....	91
Updating the BIOS using the USB drive in Windows.....	92
Updating the BIOS in Linux and Ubuntu.....	92
Updating the BIOS from the F12 One Time Boot menu.....	92
System and setup password.....	93
Assigning a system setup password.....	93
Deleting or changing an existing system setup password.....	93
Clearing CMOS settings.....	94
Clearing BIOS (System Setup) and System passwords.....	94
Chapter 9: Troubleshooting.....	95
Handling swollen Lithium-ion batteries.....	95
Locate the Service Tag or Express Service Code of your Dell computer	95
Dell SupportAssist Pre-boot System Performance Check diagnostics.....	96
Running the SupportAssist Pre-Boot System Performance Check.....	96
Built-in self-test (BIST).....	96
M-BIST.....	96
LCD Power rail test (L-BIST).....	97
LCD Built-in Self Test (BIST).....	97
System-diagnostic lights.....	98
Recovering the operating system.....	99
Real-Time Clock (RTC Reset).....	99
Backup media and recovery options.....	99
Wi-Fi power cycle.....	99
Drain residual flea power (perform hard reset).....	100
Chapter 10: Getting help and contacting Dell.....	101

Views of Dell G16 7630

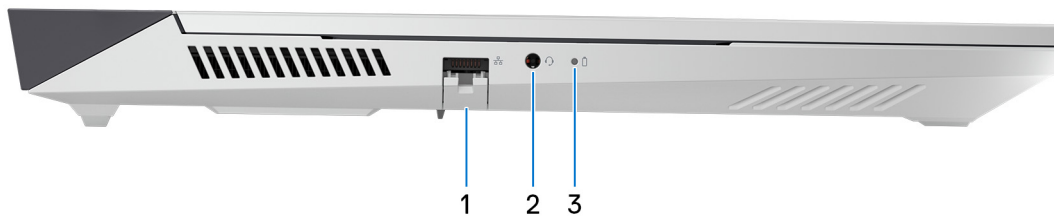
Right



1. USB 3.2 Gen 1 ports (2)

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

Left



1. Network port

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

2. Universal audio jack

Connect audio-output devices such as speakers, amplifiers, and so on.

3. Battery-status light

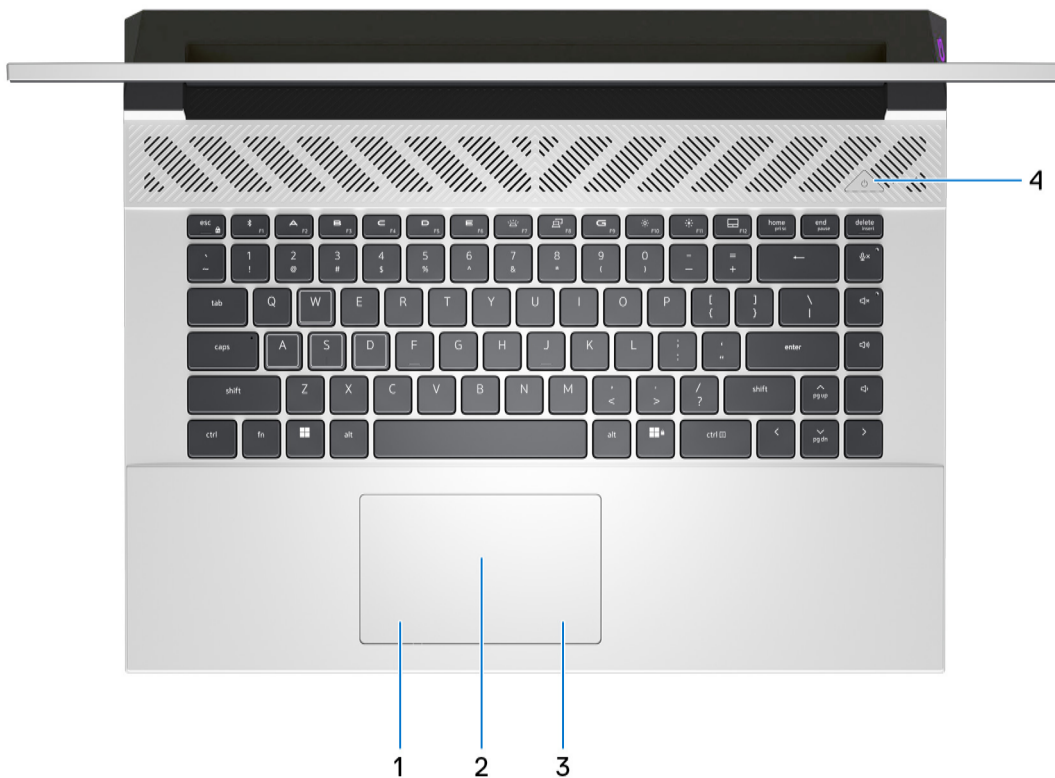
Indicates the battery-charge status.

Solid amber—Battery charge is low.

Blinking amber—Battery charge is critical.

Off—Battery is fully charged.

Top



1. Left-click area

Press to left-click.

2. Touchpad

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

3. Right-click area

Press to right-click.

4. 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.



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

Front



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.

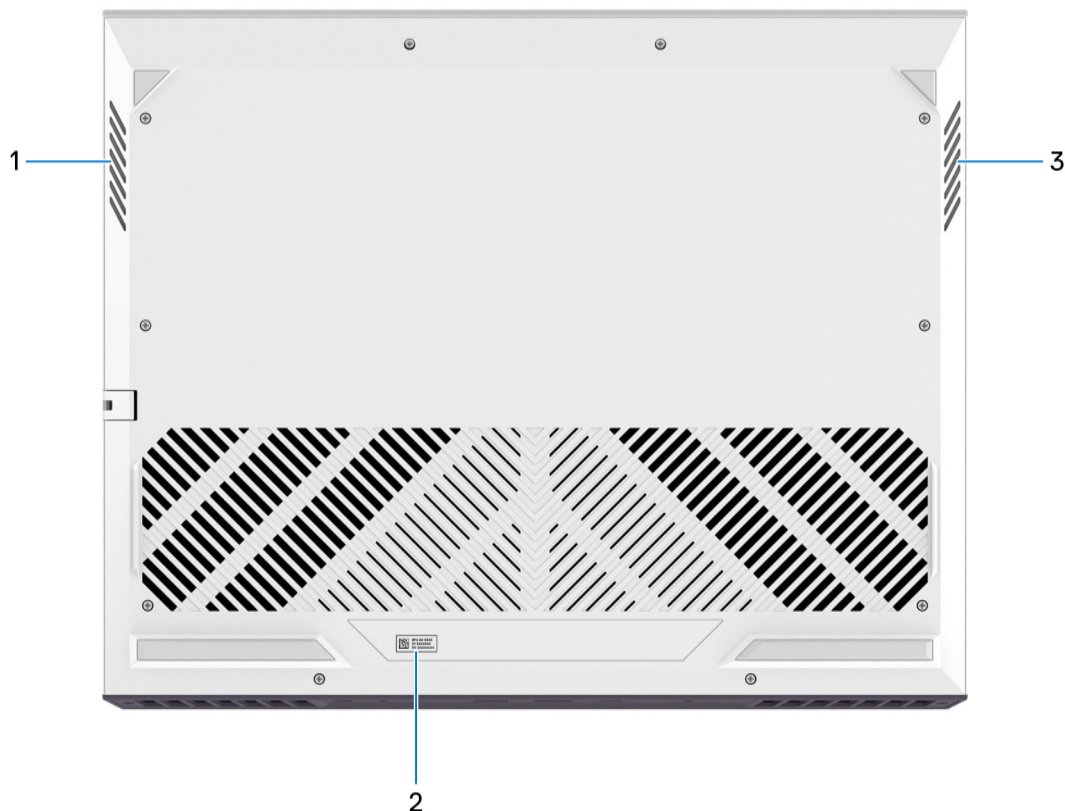
3. Camera-status light

Turns on when the camera is in use.

4. Right microphone

Provides digital sound input for audio recording and voice calls.

Bottom



1. Left speaker

Provides audio output.

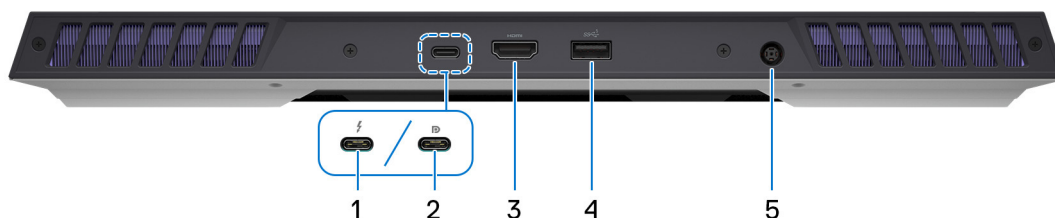
2. Service Tag label

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. Right speaker

Provides audio output.

Back



1. Thunderbolt 4.0 port with DisplayPort

Supports USB4, DisplayPort 1.4, Thunderbolt 4 and also enables you to connect to an external display using a display adapter. Provides data transfer rates of up to 40 Gbps for USB4 and Thunderbolt 4.

NOTE: This port is only available on computers shipped with an NVIDIA GeForce RTX 4070 graphics card.

NOTE: You can connect a Dell Docking Station to the Thunderbolt 4 ports. For more information, search in the Knowledge Base Resource at www.dell.com/support.

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

NOTE: USB4 is backward compatible with USB 3.2, USB 2.0, and Thunderbolt 3.

NOTE: Thunderbolt 4 supports two 4K displays or one 8K display.

2. USB 3.2 Gen 2 (Type-C) port with DisplayPort

Connect devices 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 display adapter.

NOTE: This port is only available on computers shipped with an NVIDIA GeForce RTX 3050/4050/4060 graphics card.

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

3. HDMI port

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

4. USB 3.2 Gen 1 port

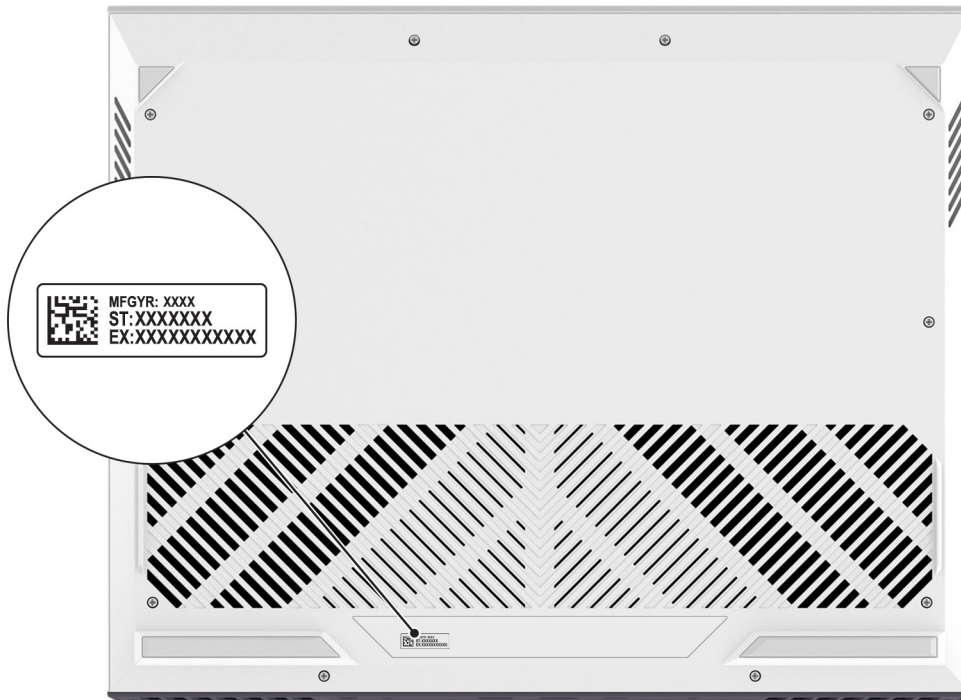
Connect devices such as external storage devices and printers. Provides data transfer speeds up to 5 Gbps.

5. Power-adapter port

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

Service Tag

The service tag is a unique alphanumeric identifier that allows Dell service technicians to identify the hardware components in your computer and access warranty information.



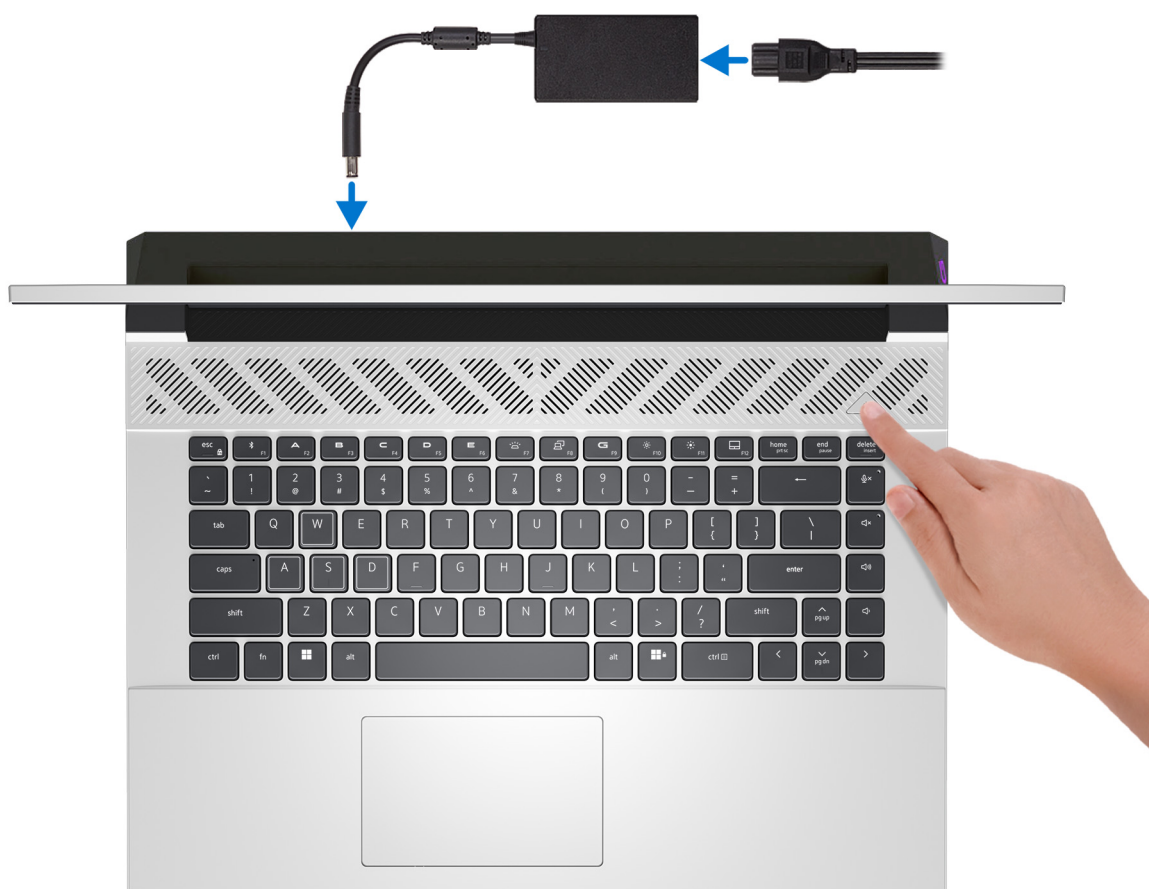
Set up your Dell G16 7630

About this task

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

Steps

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>My Dell</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>SupportAssist</p> <p>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 <i>SupportAssist for Home PCs User's Guide</i> at www.dell.com/serviceabilitytools. Click SupportAssist and then, click SupportAssist for Home PCs.</p> <p>NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p>
	<p>Dell Update</p> <p>Updates your computer with critical fixes and latest device drivers as they become available. For more information on using Dell Update, search in the Knowledge Base Resource at www.dell.com/support.</p>
	<p>Dell Digital Delivery</p> <p>Download software applications, which are purchased but not preinstalled on your computer. For more information on using Dell Digital Delivery, search in the Knowledge Base Resource at www.dell.com/support.</p>

Specifications of Dell G16 7630

Dimensions and weight

The following table lists the height, width, depth, and weight of your Dell G16 7630.



Table 2. Dimensions and weight

Description	Values
Height:	
Front height	20.20 mm (0.79 in.)
Rear height	24.90 mm (0.98 in.)
Width	356.98 mm (14.05 in.)
Depth	288.73 mm (11.37 in.)
Weight  NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.	2.73 kg (6.01 lb)

Processor

The following table lists the details of the processors supported by your Dell G16 7630.

Table 3. Processor

Description	Option one	Option two	Option three	Option four
Processor type	13 th Generation Intel Core Ci5-13450HX	13 th Generation Intel Core Ci7-13650HX	13 th Generation Intel Core Ci7-13700HX	13 th Generation Intel Core Ci9-13900HX
Processor wattage	55 W	55 W	55 W	55 W
Processor total core count	10	14	16	24
Performance-cores	6	6	8	8
Efficient-cores	4	8	8	16
Processor total thread counts	16	20	24	32
 NOTE: Intel® Hyper-Threading Technology is only available on Performance-cores.				
Performance-cores frequency				
Processor base frequency	2.40 GHz	2.60 GHz	2.10 GHz	2.20 GHz
Maximum turbo frequency	Up to 4.60 GHz	Up to 4.90 GHz	Up to 5 GHz	Up to 5.40 GHz
Efficient-cores frequency				
Processor base frequency	1.80 GHz	1.90 GHz	1.50 GHz	1.60 GHz
Maximum turbo frequency	3.40 GHz	3.60 GHz	3.70 GHz	3.90 GHz
 NOTE: Processor clock speeds and thermal design power differ according to the thermal mode selected in the My Dell app on your computer.				
Processor cache	20 MB	24 MB	30 MB	36 MB
Integrated graphics	Intel UHD Graphics	Intel UHD Graphics	Intel UHD Graphics	Intel UHD Graphics

Chipset

The following table lists the details of the chipset supported by your Dell G16 7630.

Table 4. Chipset

Description	Values
Chipset	HM770
Processor	13 th Generation Intel Core i5/i7/i9
DRAM bus width	64-bit
Flash EPROM	32 MB
PCIe bus	Up to Gen4

Operating system

Your Dell G16 7630 supports the following operating systems:

- Windows 11 Professional, 64-bit
- Windows 11 Home, 64-bit
- Ubuntu 20.04 LTS, 64-bit

Memory

The following table lists the memory specifications of your Dell G16 7630.

Table 5. Memory specifications

Description	Values
Memory slots	Two-SODIMM slots
Memory type	Dual-channel DDR5
Memory speed	4800
Maximum memory configuration	32 GB
Minimum memory configuration	8 GB
Memory size per slot	8GB, 16 GB
Memory configurations supported	<ul style="list-style-type: none">• 8 GB, 1 x 8 GB, DDR5, 4800 MHz• 16 GB, 1 x 16 GB, DDR5, 4800 MHz• 16 GB, 2 x 8 GB, DDR5, 4800 MHz, dual-channel• 32 GB, 2 x 16 GB, DDR5, 4800 MHz, dual-channel

External ports

The following table lists the external ports of your Dell G16 7630.

Table 6. External ports

Description	Values
Network port	One RJ-45 port
USB ports	<ul style="list-style-type: none">• Three USB 3.2 Gen 1 ports• One Thunderbolt 4 port with DisplayPort, for computers shipped with an NVIDIA GeForce RTX 4070 graphics card• One USB-C 3.2 Gen 2 port with DisplayPort, for computers shipped with an NVIDIA GeForce RTX 3050/4050/4060 graphics card
Audio port	One Universal audio jack
Video port	One HDMI 2.1 port
Media-card reader	Not applicable
Power-adaptor port	One 7.4 mm x 5.1 mm power-adaptor port

Table 6. External ports (continued)

Description	Values
Security-cable slot	Not supported

Internal slots

The following table lists the internal slots of your Dell G16 7630.

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 ● Two M.2 2230/2280 slots for solid-state drives (SSDs) in the following configurations: <ul style="list-style-type: none"> ○ One M.2 2230 SSD ○ One M.2 2280 SSD ○ Two M.2 2230 SSDs ○ Two M.2 2280 SSDs <p>NOTE: To learn more about the features of different types of M.2 cards, search in the Knowledge Base Resource at www.dell.com/support.</p>

Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Dell G16 7630.

Table 8. Ethernet specifications

Description	Values
Model number	<ul style="list-style-type: none"> ● Killer E3100 PCI-e Gigabit ethernet controller, for computers shipped with an NVIDIA GeForce RTX 4070 graphics card ● Realtek RTL8111H PCI-e Gigabit ethernet controller, for computers shipped with an RTX 3050/4050/4060 graphic card
Transfer rate	<ul style="list-style-type: none"> ● E3100: 100/1000 Mbps ● RTL8111H: 10/100/1000 Mbps

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module specifications of your Dell G16 7630.

Table 9. Wireless module specifications

Description	Option one	Option two	Option three
Model number	Intel AX201	Killer 1650i	Intel AX211
Transfer rate	Up to 2400 Mbps	Up to 2400 Mbps	Up to 2400 Mbps
Frequency bands supported	2.40 GHz/5 GHz	2.40 GHz/5 GHz	2.40 GHz/5 GHz/6 GHz

Table 9. Wireless module specifications (continued)

Description	Option one	Option two	Option three
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) • 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) • Wi-Fi 6E (WiFi 802.11ax)
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
Bluetooth	Bluetooth 5.2	Bluetooth 5.2	Bluetooth 5.3

Audio

The following table lists the audio specifications of your Dell G16 7630.

Table 10. Audio specifications

Description	Values
Audio controller	Realtek ALC3204
Stereo conversion	Supported
Internal audio interface	High definition audio
External audio interface	Universal audio jack
Number of speakers	Two
Internal-speaker amplifier	Supported
External volume controls	Keyboard shortcut controls
Speaker output:	
Average speaker output	2 W
Peak speaker output	2.5 W
Subwoofer output	Not supported
Microphone	Digital-array microphones in camera assembly

Storage

This section lists the storage options on your Dell G16 7630.

Table 11. Storage specifications

Storage type	Interface type	Capacity
M.2 2230 solid-state drive	PCIe NVMe Gen4 x4	Up to 1 TB
M.2 2280 solid-state drive	PCIe NVMe Gen4 x4	Up to 2 TB

Keyboard

The following table lists the keyboard specifications of your Dell G16 7630.

Table 12. Keyboard specifications

Description	Values
Keyboard type	<ul style="list-style-type: none"> One-zone RGB backlit keyboard Cherry RGB per key mechanical keyboard
Keyboard layout	QWERTY
Number of keys	<ul style="list-style-type: none"> United States and Canada: 85keys United Kingdom: 86 keys Japan: 89 keys
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 Fn and the desired key.</p> <p>NOTE: You can define the primary behavior of the function keys (F1–F12) changing Function Key Behavior in BIOS setup program.</p>

Keyboard shortcuts

NOTE: Keyboard characters may differ depending on the keyboard language configuration. Keys that are 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-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 F1 mutes the audio (refer to the table below).

However, if the function keys F1-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 + F1**.

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

Table 13. List of keyboard shortcuts

















Keys	Description
 + 	Launch Windows Connect to display connected Bluetooth devices
 + 	Adjust keyboard backlight brightness
 + 	Switch to external display

Table 13. List of keyboard shortcuts (continued)

Keys	Description
	Disable/enable Game Shift
	Decrease display brightness
	Increase display brightness
	Disable/enable touchpad





Your computer comes with pre-programmable macro keys that enable you to perform multiple actions with a single key press.

Table 14. List of Macro keys

Keys	Description
	Macro keys  NOTE: You can configure modes and assign multiple tasks for the macro keys on the keyboard.
	
	
	
	

Your computer comes with dedicated keys that enable you to control audio features of the computer with a single key press.

Table 15. List of keys to control audio features

Keys	Description
	Mute microphone
	Mute speakers
	Increase volume
	Decrease volume

Camera

The following table lists the camera specifications of your Dell G16 7630.

Table 16. Camera specifications

Description	Values
Number of cameras	One
Camera type	HD RGB camera
Camera location	Front camera

Table 16. Camera specifications (continued)

Description		Values
Camera sensor type		CMOS sensor technology
Camera resolution:		
	Still image	0.92 megapixel
	Video	1280 x 720 (HD) at 30 fps
Diagonal viewing angle:		78.6 degrees

Touchpad

The following table lists the touchpad specifications of your Dell G16 7630.

Table 17. Touchpad specifications

Description		Values
Touchpad resolution:		
	Horizontal	1229
	Vertical	749
Touchpad dimensions:		
	Horizontal	105 mm (4.13 in.)
	Vertical	65 mm (2.55 in.)
Touchpad gestures		For more information about touchpad gestures available on: <ul style="list-style-type: none"> Windows, see the Microsoft knowledge base article at support.microsoft.com Ubuntu, see ubuntu.com/support


Power adapter

The following table lists the power adapter specifications of your Dell G16 7630.

Table 18. Power adapter specifications

Description	Option one	Option two
Type	240 W	330 W
Connector dimensions:		
External diameter	7.40 mm (0.29 in.)	7.40 mm (0.29 in.)
Internal diameter	5.10 mm (0.20 in.)	5.10 mm (0.20 in.)
Power-adapter dimensions:		
Height	25.40 mm (1 in.)	43 mm (1.69 in.)
Width	100 mm (3.94 in.)	100 mm (3.94 in.)
Depth	200 mm (7.87 in.)	200 mm (7.87 in.)

Table 18. Power adapter specifications (continued)

Description		Option one	Option two
Input voltage		100 VAC x 240 VAC	100 VAC x 240 VAC
Input frequency		50 Hz x 60 Hz	50 Hz x 60 Hz
Input current (maximum)		3.50 A	4.40 A
Output current (continuous)		12.31 A	16.92 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)
 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.			

Battery

The following table lists the battery specifications of your Dell G16 7630.

Table 19. Battery specifications


Description		Option one	Option two
Battery type		6-cell, 56 WHr, Lithium-ion, ExpressChargeBoost	6-cell, 86 WHr, Lithium-ion, ExpressChargeBoost
Battery voltage		11.40 VDC	11.40 VDC
Battery weight (maximum)		0.25 Kg (0.56 lb)	0.34 kg (0.75 lb)
Battery dimensions:			
	Height	7.56 mm (0.30 in.)	7.56 mm (0.30 in.)
	Width	77.70 mm (3.06 in.)	77.70 mm (3.06 in.)
	Depth	295.20 mm (11.62 in.)	295.20 mm (11.62 in.)
Temperature range:			
	Operating	<ul style="list-style-type: none"> Charge: 0°C to 50°C (32°F to 122°F) Discharge: 0°C to 60°C (32°F to 140°F) 	<ul style="list-style-type: none"> Charge: 0°C to 50°C (32°F to 122°F) Discharge: 0°C to 60°C (32°F to 140°F)
	Storage	-20°C to 65°C (-4°F to 149°F)	-20°C to 65°C (-4°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"> Express Charge Method: 2 hours 	<ul style="list-style-type: none"> Express Charge Method: 2 hours
 NOTE: Control the charging time, duration, start and end time, and so			

Table 19. Battery specifications (continued)

Description	Option one	Option two
on using the Dell Power Manager application. For more information about Dell Power Manager, search in the Knowledge Base Resource at www.dell.com/support .	<ul style="list-style-type: none"> Standard Charge/Predominately AC User Charge Method: 3 hours Express Charge Boost Charge Method (Fast Charge for Initial 35%): From 0% up to 35% in as little as 20 minutes 	<ul style="list-style-type: none"> Standard Charge/Predominately AC User Charge Method: 3 hours Express Charge Boost Charge Method (Fast Charge for Initial 35%): From 0% up to 35% in as little as 20 minutes
Coin-cell battery	Not supported	Not supported
<p>⚠ 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.</p> <p>⚠ CAUTION: Dell recommends that you charge the battery regularly for optimal power consumption. If your battery charge is completely depleted, connect the power adapter, turn on your computer, and then restart your computer to reduce the power consumption.</p>		

Display

The following table lists the display specifications of your Dell G16 7630.

Table 20. Display specifications

Description	Option one	Option two
Display type	Quad High Definition Plus (QHD+)	Quad High Definition Plus (QHD+)
Touch options	No	No
Display-panel technology	Wide-viewing angle (WVA)	Wide-viewing angle (WVA)
Display-panel dimensions (active area):		
Height	215.42 mm (8.48 in.)	215.42 mm (8.48 in.)
Width	344.68 mm (13.57 in.)	344.68 mm (13.57 in.)
Diagonal	406.46 mm (16 in.)	406.46 mm (16 in.)
Display-panel native resolution	2560 x 1600	2560 x 1600
Luminance (typical)	300 nits	300 nits
Megapixels	4.10	4.10
Color gamut	100% sRGB (typical)	DCI P3 100% (typical)
Pixels Per Inch (PPI)	188.70 ppi	188.70 ppi
Contrast ratio (min.)	1000:1	1000:01
Response time (max.)	<ul style="list-style-type: none"> 9 ms (typical) 12 ms (maximum) 3 ms (Gray to Gray with Overdrive) 7 ms (Gray to Gray without Overdrive) 	<ul style="list-style-type: none"> 9 ms (typical) 12 ms (maximum) 3 ms (Gray to Gray with Overdrive) 7 ms (Gray to Gray without Overdrive)
Refresh rate	165 Hz	240 Hz

Table 20. Display specifications (continued)

Description	Option one	Option two
Horizontal view angle	+/- 85 degrees(min)	+/- 85 degrees(min)
Vertical view angle	+/- 85 degrees(min)	+/- 85 degrees(min)
Pixel pitch	0.13 x 0.13 mm	0.13 x 0.13 mm
Power consumption (maximum)	6 W	7.2 W
Anti-glare vs glossy finish	Anti-glare	Anti-glare

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Dell G16 7630.

Table 21. GPU—Integrated

Controller	Memory size	Processor
Intel UHD Graphics	Shared system memory	13 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 G16 7630.

Table 22. GPU—Discrete

Controller	Memory size	Memory type
NVIDIA GeForce RTX 3050	6 GB	GDDR6
NVIDIA GeForce RTX 4050	6 GB	GDDR6
NVIDIA GeForce RTX 4060	8 GB	GDDR6
NVIDIA GeForce RTX 4070	8 GB	GDDR6

Operating and storage environment

This table lists the operating and storage specifications of your Dell G16 7630.


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†

Table 23. Computer environment (continued)


Description	Operating	Storage
Altitude range	-15.2 m to 3048 m (4.64 ft to 5518.4 ft)	-15.2 m to 10668 m (4.64 ft to 19234.4 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.

ComfortView Plus

 **WARNING: Prolonged exposure to blue light from the display may lead to long-term effects such as eye strain, eye fatigue, or damage to the eyes.**

Blue light is a color in the light spectrum which has a short wavelength and high energy. Chronic exposure to blue light, particularly from digital sources, may disrupt sleep patterns and cause long-term effects such as eye strain, eye fatigue, or damage to the eyes.

The display on this computer is designed to minimize blue light and complies with TÜV Rheinland's requirement for low blue light displays.

Low blue light mode is enabled at the factory, so no further configuration is necessary.

To reduce the risk of eye strain, it is also recommended that you:

- Position the display at a comfortable viewing distance between 20 and 28 inches (50 and 70 cm) from your eyes.
- Blink frequently to moisten your eyes, wet your eyes with water, or apply suitable eye drops.
- Look away from your display, and gaze at a distant object at 20 ft (609.60 cm) away for at least 20 seconds during each break.
- Take an extended break for 20 minutes every two hours.