Alienware Aurora R15
Setup and Specifications

Regulatory Model: D30M
Regulatory Type: D30M004
October 2022
Rev. A00

ALIENWARE

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

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

1. Connect the wired keyboard and mouse to suitable ports. To connect a wireless keyboard and mouse, see the instructions on how to connect in the documentation that ships with the wireless keyboard and mouse.

2. Connect to your network using an Ethernet cable.
   Wired network:

Wireless network:

Alternatively, connect an external antenna during setup, to improve the memory performance and connect to the wireless network while setting up your operating system. For more information on how to connect and placement of antenna, see the *Antenna Installation Guide* at www.dell.com/support.

3. Connect the display. For more information about setting up the display, see the documentation that is shipped with your display.

NOTE: Connect the display to the discrete graphics card of your computer.

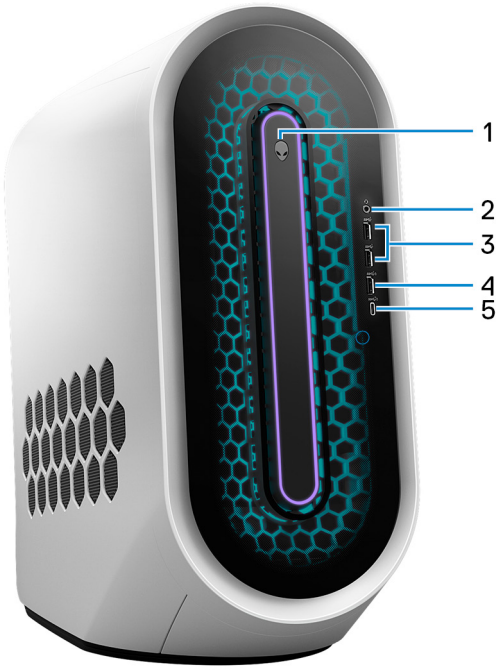
4. Connect the power cable to the computer and then connect it to the wall outlet.

CAUTION: If you are using a 1350 W Power-Supply Unit (PSU), connect the power cable to a Power Distribution Unit (PDU) 16 A, and then connect the PDU to the wall outlet.

5. Press the power button at the front of computer to turn on the computer.

Views of Alienware Aurora R15

Front



1. **Power button (Alien head)**

   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.

   When the computer is turned on, press the power button to put the computer into sleep state; press and hold the power button for four 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.

2. **Headset port**

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

3. **USB 3.2 Gen 1 ports (2)**

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

4. **USB 3.2 Gen 1 port with PowerShare**

   Connect devices such as external storage devices and printers.

   Provides data transfer speeds up to 5 Gbps. PowerShare enables you to charge connected USB devices.

   NOTE: Deep Sleep is enabled by default. Disable Deep Sleep at the BIOS setup to enable PowerShare feature on your computer.

   NOTE: PowerShare enables you to charge your USB devices even when your computer is turned off.

5. **USB 3.2 Gen 2 Type-C port with PowerShare**

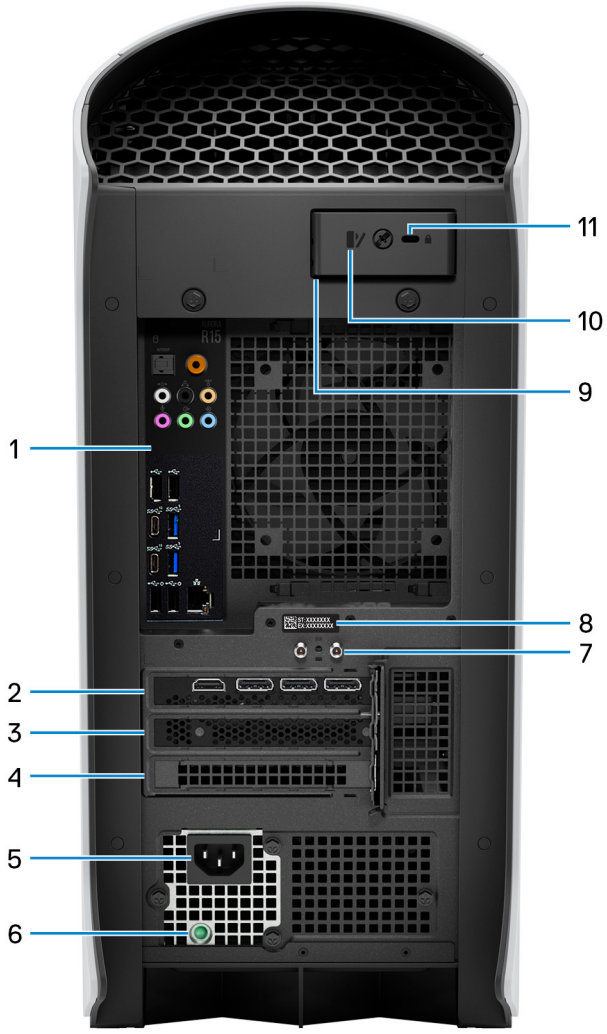
   Connect devices such as external storage devices and printers.

   Provides data transfer speed up to 10 Gbps. Supports Power Delivery that enables two-way power supply between devices. Provides up to 15 W power output that enables faster charging. PowerShare enables you to charge connected USB devices.

NOTE: Deep Sleep is enabled by default. Disable Deep Sleep at the BIOS setup to enable PowerShare feature on your computer.

NOTE: PowerShare enables you to charge your USB devices even when your computer is turned off.

Back



1. **Back panel**

   Connect USB, audio, video, and other devices.

2. **PCI-Express X16**

   Connect a PCI-Express graphics card for optimal graphics performance.

3. **PCI-Express X4 slot**

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

4. **PCI-Express X4 slot**

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

5. **Power-adapter port**

   Connect a power adapter to provide power to your computer.

6. **Power-supply diagnostics light**

Indicates the power-supply state.

7. **Integrated external SMA antenna connectors**

   Connect the external antenna to improve the memory performance of your computer.

8. **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.

9. **Padlock rings**

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

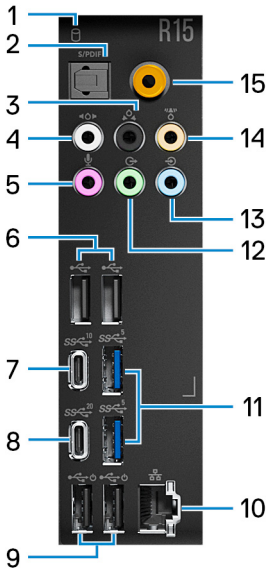
10. **Side panel release latch**

    Pull the latch to quickly release the side panel from your computer.

11. **Security-cable slot (for Kensington locks)**

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

Back panel



1. **Hard-drive activity light**

   The activity light turns on when the computer reads from or writes to the hard drive.

2. **Optical S/PDIF port**

   Connect an amplifier, speakers, or a TV for digital audio output through an optical cable.

3. **Rear L/R surround port**

   Connect audio-output devices such as speakers and amplifiers. In a 5.1 or 7.1 speaker channel setup, connect the rear-left and rear-right speakers.

4. **Side L/R surround port**

   Connect audio-output devices such as speakers and amplifiers. In a 7.1 speaker channel setup, connect the side-left and side-right speakers.

5. **Microphone port**

   Connect an external microphone to provide sound input.

6. **USB 2.0 ports (2)**

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

7. **USB 3.2 Gen 2 Type-C port**

   Connect devices such as external storage devices and printers.

   Provides data transfer speeds up to 10 Gbps.

8. **USB 3.2 Gen 2x2 Type-C port**

   Connect devices such as external storage devices and printers. Provides data transfer speeds up to 20 Gbps.

9. **USB 2.0 ports with Smart Power On (2)**

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

   NOTE: Deep Sleep is enabled by default. Disable Deep Sleep at the BIOS setup to enable Smart Power On feature on your computer.

   NOTE: Smart Power On is the ability to wake a system from S0ix, S4, and S5 sleep states with a move of a mouse or press of a key on the keyboard.

   NOTE: This port does not support video/audio streaming or power delivery.

10. **Network port (with lights)**

    Connect an Ethernet (RJ-45) cable from a router or a broadband modem for network or Internet access.

    The two lights next to the connector indicate the connectivity status and network activity.

11. **USB 3.2 Gen 1 ports (2)**

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

12. **Front L/R surround line-out port**

    Connect audio-output devices such as speakers and amplifiers. In a 2.1 speaker channel setup, connect the left and right speakers. In a 5.1 or a 7.1 speaker channel setup, connect the front-left and front-right speakers.

13. **Line-in port**

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

14. **Center/subwoofer LFE surround port**

    Connect the center speaker or the subwoofer.

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

15. **Coaxial S/PDIF port**

    Connect an amplifier, speakers, or a TV for digital audio output through a coaxial cable.

Specifications of Alienware Aurora R15

Dimensions and weight

The following table lists the height, width, depth, and weight of your Alienware Aurora R15.

Table 1. Dimensions and weight

Description	Values
Height:	
Front height	510 mm (20.08 in.)
Rear height	510 mm (20.08 in.)
Width	225 mm (8.86 in.)
Depth	• 529 mm (20.83 in.) (without cable cover) • 589 mm (23.19 in.) (with cable cover)
Weight (maximum)	16.87 kg (37.19 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 Alienware Aurora R15.

Table 2. Processor

Description	Option one	Option two	Option three	Option four	Option five	Option six
Processor type	13th Generation Intel Core i5-13600K	13th Generation Intel Core i5-13600KF	13th Generation Intel Core i7-13700K	13th Generation Intel Core i7-13700KF	13th Generation Intel Core i9-13900K	13th Generation Intel Core i9-13900KF
Processor wattage	125 W	125 W	125 W	125 W	125 W	125 W
Processor total core count	14	14	16	16	24	24
Performance-cores	6	6	8	8	8	8
Efficient-cores	8	8	8	8	16	16
Processor total thread counts **NOTE:** Intel® Hyper-Threading Technology is only available on Performance-cores.	20	20	24	24	32	32
Processor speed	3.50 GHz to 5.10 GHz	3.50 GHz to 5.10 GHz	3.40 GHz to 5.40 GHz	3.40 GHz to 5.40 GHz	3 GHz to 5.80 GHz	3 GHz to 5.80 GHz
Performance-cores frequency						
Processor base frequency	3.50 GHz	3.50 GHz	3.40 GHz	3.40 GHz	3 GHz	3 GHz
Maximum turbo frequency (single core)	5.10 GHz	5.10 GHz	5.40 GHz	5.40 GHz	5.80 GHz	5.80 GHz
Efficient-cores frequency						
Processor base frequency	2.60 GHz	2.60 GHz	2.50 GHz	2.50 GHz	2.20 GHz	2.20 GHz
Maximum turbo frequency	3.90 GHz	3.90 GHz	4.20 GHz	4.20 GHz	4.30 GHz	4.30 GHz
Processor cache	24 MB	24 MB	30 MB	30 MB	36 MB	36 MB
Integrated graphics	Intel UHD Graphics 770	Not applicable	Intel UHD Graphics 770	Not applicable	Intel UHD Graphics 770	Not applicable

Chipset

The following table lists the details of the chipset supported by your Alienware Aurora R15.

Table 3. Chipset

Description	Values
Chipset	Intel Z690
Processor	13th Generation Intel Core i5/i7/i9
DRAM bus width	128-bit
Flash EPROM	32 MB
PCIe bus	Up to Gen5

Operating system

Your Alienware Aurora R15 supports the following operating systems:

- Windows 11 Pro, 64-bit
- Windows 11 Home, 64-bit

Memory

The following table lists the memory specifications of your Alienware Aurora R15.

Table 4. Memory specifications

Description	Values
Memory slots	Two
Memory type	DDR5
Memory speed	Up to 4800 MHz/5200 MHz (XMP)
Maximum memory configuration	64 GB
Minimum memory configuration	8 GB
Memory size per slot	8 GB, 16 GB, and 32 GB
Memory configurations supported	• 8 GB, 1 x 8 GB, DDR5, 4800 MHz • 16 GB, 1x 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 • 64 GB, 2 x 32 GB, DDR5, 4800 MHz, dual-channel • 16 GB, 1 x 16 GB, DDR5, 5200 MHz, XMP • 32 GB, 2 x 16 GB, DDR5, 5200 MHz, dual-channel, XMP • 64 GB, 2 x 32 GB, DDR5, 5200 MHz, dual-channel, XMP

Ports and connectors

The following table lists the external and internal ports available on your Alienware Aurora R15.

Table 5. Ports and connectors

Description	Values
External:	
Network	One RJ-45 port
USB	**Front ports** • Two USB 3.2 Gen 1 ports • One USB 3.2 Gen 1 port with PowerShare • One USB 3.2 Gen 2 Type-C port with PowerShare **Rear ports** • Two USB 2.0 ports • Two USB 2.0 ports with Smart Power On • One USB 3.2 Gen 2 Type-C port • Two USB 3.2 Gen 1 ports • One USB 3.2 Gen 2x2 Type-C port
Audio	• One headset port - 3.5 mm Universal audio jack • One optical S/PDIF port - Optical • One coaxial S/PDIF port - RCA • One audio input/microphone port - 3.5 mm, 6 stack • One line-in port - 3.5 mm, 6 stack • One center/subwoofer LFE surround port - 3.5 mm, 6 stack • One front L/R surround line-out port - 3.5 mm, 6 stack • One rear L/R surround port - 3.5 mm, 6 stack • One side L/R surround port - 3.5 mm, 6 stack
Video	Supported through discrete GPU
Media-card reader	Not supported
Power port	110 V/220 V
Security	• One security-cable slot (wedge-shaped) • One padlock slot
Internal:	
PCIe expansion card slots	• One PCIe x16 mechanical/x16 electrical Gen5 slot • Two PCIe Gen3 x4 slots
mSATA	Not supported
SATA	Two
M.2	• One M.2 2230 slot for WiFi and Bluetooth combo card • Two M.2 2230/2280 card slots for solid-state drive **NOTE:** To learn more about the features of different types of M.2 cards, see the knowledge base article 000144170.

Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Alienware Aurora R15.

Table 6. Ethernet specifications

Description	Values
Model number	Killer E3100G Ethernet controller integrated on the system board
Transfer rate	10/100/1000/2500 Mbps

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module specifications of your Alienware Aurora R15.

Table 7. Wireless module specifications

Description	Option one	Option two	Option three
Model number	Intel AX210	Intel Killer AX1675x	Realtek RTL8852BE
Transfer rate	Up to 2400 Mbps	Up to 2400 Mbps	Up to 1201 Mbps
Frequency bands supported	2.4 GHz/5 GHz/6 GHz	2.4 GHz/5 GHz/6 GHz	2.4 GHz/5 GHz
Wireless standards	• WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) • Wi-Fi 6E (WiFi 802.11ax)	• WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) • Wi-Fi 6E (WiFi 802.11ax)	• WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) • Wi-Fi 6 (WiFi 802.11ax)
Encryption	• 64-bit/128-bit WEP • AES-CCMP • TKIP	• 64-bit/128-bit WEP • AES-CCMP • TKIP	• 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth	Bluetooth 5.2	Bluetooth 5.2	Bluetooth 5.2

Storage

This section lists the storage options on your Alienware Aurora R15.

Your Alienware Aurora R15 supports one of the following storage configurations:

- Up to two M.2 2230 or M.2 2280 PCIe NVMe solid-state drives
- Up to two M.2 2230 or M.2 2280 PCIe NVMe solid-state drives + one 3.5-inch hard drive

The SSD slot 1 of your computer is the primary drive.

Table 8. Storage specifications

Storage type	Interface type	Capacity
One M.2 2230 solid-state drive	PCIe Gen3 x4 NVMe, up to 64 Gbps	Up to 256 GB
One M.2 2280 solid-state drive	PCIe Gen4 x4 NVMe, up to 64 Gbps	Up to 4 TB
One 3.5-inch hard drive	SATA AHCI 6 Gbps	Up to 2 TB
Two 2.5-inch hard drives	SATA AHCI 6 Gbps	Up to 2 TB

Table 8. Storage specifications (continued)

Storage type	Interface type	Capacity
NOTE: 3.5-inch hard drive can be changed to two 2.5-inch hard drives by purchasing the conversion kit from Dell sales agent.		

Video

The following table lists the detailed discrete graphics specifications of your Alienware Aurora R15.

Table 9. Discrete graphics specifications

Discrete graphics							
Controller	**Number of cards**	**External display support**	**Memory size**	**Memory type**	**PCIe version**	**Power consumption**	**Recommended PSU**
AMD Radeon RX 6500 XT	1	One DisplayPort 1.4 ports, One HDMI 2.1 port	4 GB	GDDR6	4	100 W	>= 400 W
AMD Radeon RX 6600 XT	1	Three DisplayPort 1.4 ports, One HDMI 2.1 port	8 GB	GDDR6	4	162.50 W	>= 500 W
AMD Radeon RX 6700 XT	1	Three DisplayPort 1.4 ports, One HDMI 2.1 port	12 GB	GDDR6	4	230 W	>= 650 W
AMD Radeon RX 6800 XT	1	Three DisplayPort 1.4 ports, One HDMI 2.1 port	16 GB	GDDR6	4	300 W	>= 750 W
AMD Radeon RX 6900 XT	1	Three DisplayPort 1.4 ports, One HDMI 2.1 port	16 GB	GDDR6	4	300 W	>= 750 W
NVIDIA GeForce RTX 3050	1	Three DisplayPort 1.4 ports, One HDMI 2.1 port	8 GB	GDDR6	4	120 W	>= 500 W
NVIDIA GeForce RTX 3060	1	Three DisplayPort 1.4 ports, One HDMI 2.1 port	12 GB	GDDR6	4	170 W	>= 500 W

Table 9. Discrete graphics specifications (continued)

Discrete graphics							
Controller	**Number of cards**	**External display support**	**Memory size**	**Memory type**	**PCIe version**	**Power consumption**	**Recommended PSU**
NVIDIA GeForce RTX 3060 Ti	1	Three DisplayPort 1.4 ports, One HDMI 2.1 port	8 GB	GDDR6	4	200 W	>= 650 W
NVIDIA GeForce RTX 3070	1	Three DisplayPort 1.4 ports, One HDMI 2.1 port	8 GB	GDDR6	4	220 W	>= 650 W
NVIDIA GeForce RTX 3070 Ti	1	Three DisplayPort 1.4 ports, One HDMI 2.1 port	8 GB	GDDR6X	4	290 W	>= 750 W
NVIDIA GeForce RTX 3080	1	Three DisplayPort 1.4 ports, One HDMI 2.1 port	10 GB	GDDR6X	4	320 W	>= 750 W
NVIDIA GeForce RTX 3080 Ti	1	Three DisplayPort 1.4 ports, One HDMI 2.1 port	12 GB	GDDR6X	4	350 W	>= 750 W
NVIDIA GeForce RTX 3090	1	Three DisplayPort 1.4 ports, One HDMI 2.1 port	24 GB	GDDR6X	4	350 W	>= 750 W
NVIDIA GeForce RTX 3090 Ti	1	Three DisplayPort 1.4 ports, One HDMI 2.1 port	24 GB	GDDR6X	4	450 W	>= 1000 W
NVIDIA GeForce RTX 4090 **NOTE:** For computers shipped with NVIDIA GeForce RTX 4090 graphics	1	Three DisplayPort 1.4 ports, One HDMI 2.1 port	24 GB	GDDR6X	4	450 W	>= 1000 W

Table 9. Discrete graphics specifications (continued)

Discrete graphics							
Controller	**Number of cards**	**External display support**	**Memory size**	**Memory type**	**PCIe version**	**Power consumption**	**Recommended PSU**
card in Australia and New Zealand, you must mandatorily use 15 A power adapter.							

Video port resolution

The following table lists the video port resolution for your Alienware Aurora R15.

Table 10. Video port resolution

Graphics card	Video ports	Maximum supported resolution
AMD Radeon RX 6500 XT	• One DisplayPort 1.4a[1] • One HDMI 2.1 port	• DisplayPort - 8K at 120 Hz (DSC) • HDMI - 8K at 60 Hz (DSC)
AMD Radeon RX 6600 XT	• Three DisplayPort 1.4a[1] • One HDMI 2.1 port	• DisplayPort - 8K at 120 Hz (DSC) • HDMI - 8K at 60 Hz (DSC)
AMD Radeon RX 6700 XT	• Three DisplayPort 1.4a[1] • One HDMI 2.1 port	• DisplayPort - 8K at 120 Hz (DSC) • HDMI - 8K at 60 Hz (DSC)
AMD Radeon RX 6800 XT	• Three DisplayPort 1.4a[1] • One HDMI 2.1 port	• DisplayPort - 8K at 120 Hz (DSC) • HDMI - 8K at 60 Hz (DSC)
AMD Radeon RX 6900 XT	• Three DisplayPort 1.4a[1] • One HDMI 2.1 port	• DisplayPort - 8K at 120 Hz (DSC) • HDMI - 8K at 60 Hz (DSC)
NVIDIA GeForce RTX 3050	• Three DisplayPort 1.4a[1] • One HDMI 2.1 port	• Maximum pixel clock[2]: Up to 2660 megapixels per second • Maximum raw bandwidth[3]: 32.40 Gbps **DisplayPort:** • 7680 x 4320 at 120 Hz[4] • 7680 x 4320 at 60 Hz[5] • 7680 x 4320 at 60 Hz[6] • 5120 x 3200 at 60 Hz[7] • 5120 x 2880 at 60 Hz[7] **HDMI:** • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 3060	• Three DisplayPort 1.4a[1] • One HDMI 2.1 port	**DisplayPort:** • 7680 x 4320 at 120 Hz[4]

Table 10. Video port resolution (continued)

Graphics card	Video ports	Maximum supported resolution
		• 7680 x 4320 at 60 Hz[5] • 7680 x 4320 at 60 Hz[6] • 5120 x 3200 at 60 Hz[7] • 5120 x 2880 at 60 Hz[7] **HDMI:** • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 3060 Ti	• Three DisplayPort 1.4a[1] • One HDMI 2.1 port	**DisplayPort:** • 7680 x 4320 at 120 Hz[4] • 7680 x 4320 at 60 Hz[5] • 7680 x 4320 at 60 Hz[6] • 5120 x 3200 at 60 Hz[7] • 5120 x 2880 at 60 Hz[7] **HDMI:** • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 3070	• Three DisplayPort 1.4a[1] • One HDMI 2.1 port	**DisplayPort:** • 7680 x 4320 at 120 Hz[4] • 7680 x 4320 at 60 Hz[5] • 7680 x 4320 at 60 Hz[6] • 5120 x 3200 at 60 Hz[7] • 5120 x 2880 at 60 Hz[7] **HDMI:** • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 3070 Ti	• Three DisplayPort 1.4a[1] • One HDMI 2.1 port	**DisplayPort:** • 7680 x 4320 at 120 Hz[4] • 7680 x 4320 at 60 Hz[5] • 7680 x 4320 at 60 Hz[6] • 5120 x 3200 at 60 Hz[7] • 5120 x 2880 at 60 Hz[7] **HDMI:** • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 3080	• Three DisplayPort 1.4a[1] • One HDMI 2.1 port	**DisplayPort:** • 7680 x 4320 at 120 Hz[4] • 7680 x 4320 at 60 Hz[5] • 7680 x 4320 at 60 Hz[6] • 5120 x 3200 at 60 Hz[7] • 5120 x 2880 at 60 Hz[7] **HDMI:** • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz

Table 10. Video port resolution (continued)

Graphics card	Video ports	Maximum supported resolution
NVIDIA GeForce RTX 3080 Ti	• Three DisplayPort 1.4a[1] • One HDMI 2.1 port	**DisplayPort:** • 7680 x 4320 at 120 Hz[4] • 7680 x 4320 at 60 Hz[5] • 7680 x 4320 at 60 Hz[6] • 5120 x 3200 at 60 Hz[7] • 5120 x 2880 at 60 Hz[7] **HDMI:** • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 3090	• Three DisplayPort 1.4a[1] • One HDMI 2.1 port	**DisplayPort:** • 7680 x 4320 at 120 Hz[4] • 7680 x 4320 at 60 Hz[5] • 7680 x 4320 at 60 Hz[6] • 5120 x 3200 at 60 Hz[7] • 5120 x 2880 at 60 Hz[7] **HDMI:** • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 3090 Ti	• Three DisplayPort 1.4a[1] • One HDMI 2.1 port	**DisplayPort:** • 7680 x 4320 at 120 Hz[4] • 7680 x 4320 at 60 Hz[5] • 7680 x 4320 at 60 Hz[6] • 5120 x 3200 at 60 Hz[7] • 5120 x 2880 at 60 Hz[7] **HDMI:** • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz
NVIDIA GeForce RTX 4090	• Three DisplayPort 1.4a[1] • One HDMI 2.1 port	**DisplayPort:** • 7680 x 4320 at 120 Hz[4] • 7680 x 4320 at 60 Hz[5] • 7680 x 4320 at 60 Hz[6] • 5120 x 3200 at 60 Hz[7] • 5120 x 2880 at 60 Hz[7] **HDMI:** • 7680 x 4320 at 60 Hz • 3840 x 2160 at 120 Hz • 4096 x 2160 at 120 Hz

[1] DisplayPort 1.2 certified, DisplayPort 1.3/1.4 ready.

[2] Depending on GPU resources applied to the port.

[3] Maximum raw bandwidth represents the raw bandwidth of four lanes of HBR3.

[4] Requires two DisplayPort 1.4a links and DSC compression.

[5] Requires either a single DisplayPort 1.4a link with DSC compression or two DP links with no compression.

[6] Using DSC compression.

[7] Uncompressed.

Audio

The following table lists the audio specifications of your Alienware Aurora R15.

Table 11. Audio specifications

Description	Values
Audio type	Integrated 7.1 channel audio with S/PDIF port
Audio controller	Realtek ALC1220
Internal audio interface	High-definition audio
External audio interface	• 7.1 audio 6-connector stack of retaskable audio ports • Optical S/PDIF • Coaxial S/PDIF • Headset

Power ratings

The following table lists the power rating specifications of Alienware Aurora R15.

Table 12. Power ratings

Description	Option one	Option two
Type	750 W SFFX Platinum	1350 W SFFX Platinum
Input voltage	90 VAC - 264 VAC	90 VAC - 264 VAC
Input frequency	47 Hz - 63 Hz	47 Hz - 63 Hz
Input current (maximum)	10 A	• 16 A • 15 A **NOTE:** For computers shipped with NVIDIA GeForce RTX 4090 graphics card in Australia and New Zealand, you must mandatorily use 15 A power adapter.
Output current (continuous)	**Operating:** • 12 VA - 36 A • 12 VB - 27 A • 12 VC - 36 A **Standby:** • 12 VA - 1.50 A • 12 VB - 5 A • 12 VC - 0 A	**Operating:** • 12 VA - 42 A • 12 VB - 36 A • 12 VC - 72 A **Standby:** • 12 VA - 1.50 A • 12 VB - 5 A • 12 VC - 0 A
Rated output voltage	• 12 VA • 12 VB • 12 VC	• 12 VA • 12 VB • 12 VC
Temperature range		
Operating	5°C to 45°C (41°F to 113°F)	5°C to 45°C (41°F to 113°F)

Table 12. Power ratings (continued)

Description		Option one	Option two
	Storage	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)

Operating and storage environment

This table lists the operating and storage specifications of your Alienware Aurora R15.

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

Table 13. Computer environment

Description	Operating	Storage
Temperature range	10°C to 35°C (50°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	20% to 80% (non-condensing)	5% to 95% (non-condensing)
Vibration (maximum)*	0.26 GRMS	1.37 GRMS
Shock (maximum)	40 G for 2 ms with a change in velocity of 20 in./s (51 cm/s)†	105 G for 2 ms with a change in velocity of 52.50 in./s (133 cm/s)†
Altitude range	-15.20 m to 3,048 m (-49.87 ft to 10,000 ft)	-15.20 m to 10,668 m (-49.87 ft to 35,000 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.

Alienware Command Center

Alienware Command Center (AWCC) provides a single interface to customize and enhance the gaming experience. The AWCC dashboard displays most recently played or added games, and provides game-specific information, themes, profiles, and access to computer settings. You can quickly access settings such as game-specific profiles and themes, lighting, macros, and audio that are critical to the gaming experience.

AWCC also supports AlienFX 2.0. AlienFX enables you to create, assign, and share game-specific lighting maps to enhance the gaming experience. It also enables you to create your own individual lighting effects and apply them to the computer or attached peripherals. AWCC embeds Peripheral Controls to ensure a unified experience and the ability to link these settings to your computer or game.

This computer features the following AlienFX lighting zones:

- Alienhead power button
- Bezel ring
- Bezel ambient
- Alienware wordmark (only on certain configurations)
- Internal chassis (only on certain configurations)
- Liquid cooler pump (only on certain configurations)
- Fan (only on certain configurations)

NOTE: Information about the location of AlienFX lighting zones on your computer is available in AWCC.

AWCC supports the following features:

- FX: Create and manage the AlienFX zones.
- Fusion: Includes the ability to adjust game-specific Power Management, Sound Management, and Thermal Management features.
- Peripheral Management: Enables peripherals to appear in and be managed in Alienware Command Center. Supports key peripheral settings and associates with other functions such as profiles, macros, AlienFX, and game library.

AWCC also supports Sound Management, Thermal Controls, CPU, GPU, Memory (RAM) monitoring. For more information about AWCC, see the *Alienware Command Center Online Help* or search in the Knowledge Base Resource at www.dell.com/support.

Getting help and contacting Alienware

Self-help resources

You can get information and help on Alienware products and services using these online self-help resources:

Table 14. Alienware products and online self-help resources

Self-help resources	Resource location
Information about Alienware products and services	www.alienware.com
My Dell app	
Tips	
Contact Support	In Windows search, type **Contact Support**, and press **Enter**.
Online help for operating system	www.dell.com/support/windows
Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals and documents.	Your Alienware computer is uniquely identified by a Service Tag or Express Service Code. To view relevant support resources for your Dell computer, enter the Service Tag or Express Service Code at www.dell.com/support. For more information on how to find the Service Tag for your computer, see Locate the Service Tag on your computer.
VR Support	www.dell.com/VRsupport
Videos providing step-by-step instructions to service your computer	www.youtube.com/alienwareservices

Contacting Alienware

To contact Alienware for sales, technical support, or customer service issues, see www.alienware.com.

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.