Alienware x16 R1
Setup and Specifications

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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.

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Set up your Alienware x16 R1

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.



2. Connect the USB Type-C Ethernet dongle to the Thunderbolt 4 port of your computer for wired network (optional).

   NOTE: Depending on the configuration ordered, this computer may be shipped with a USB Type-C Ethernet dongle.



Views of Alienware x16 R1

Front



1. **Left microphone**

   Provides digital sound input for audio recording and voice calls.

2. **Infrared emitter**

   Emits infrared light, which enables the infrared camera to sense and track motion.

3. **Infrared camera**

   Enhances security when paired with Windows Hello face authentication.

4. **Camera**

   Enables you to video chat, capture photos, and record videos.

5. **Camera-status light**

   Turns on when the camera is in use.

6. **Right microphone**

   Provides digital sound input for audio recording and voice calls.

Top



1. **Power button**

   Press to turn on the computer if it is turned off, in sleep state, or in hibernate state.

   Press to put the computer in sleep state if it is turned on.

   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.

2. **Right speaker**

   Provides audio output.

3. **Right-click button**

   Press to right-click.

4. **Left-click button**

   Press to left-click.

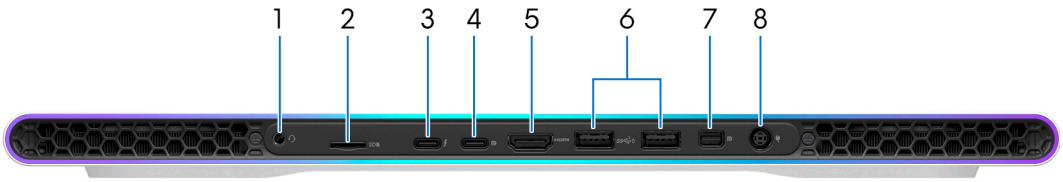
5. **Touchpad**

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

6. **Left speaker**

   Provides audio output.

Back



1. **Headset port**

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

2. **microSD-card slot**

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

   - microSecure Digital (microSD)
   - microSecure Digital High Capacity (microSDHC)
   - microSecure Digital Extended Capacity (microSDXC)

3. **Thunderbolt 4.0 port with Power Delivery and 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: 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.

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

5. **HDMI 2.1 port**

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

6. **USB 3.2 Gen 1 port with PowerShare (2)**

   Connect devices 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.

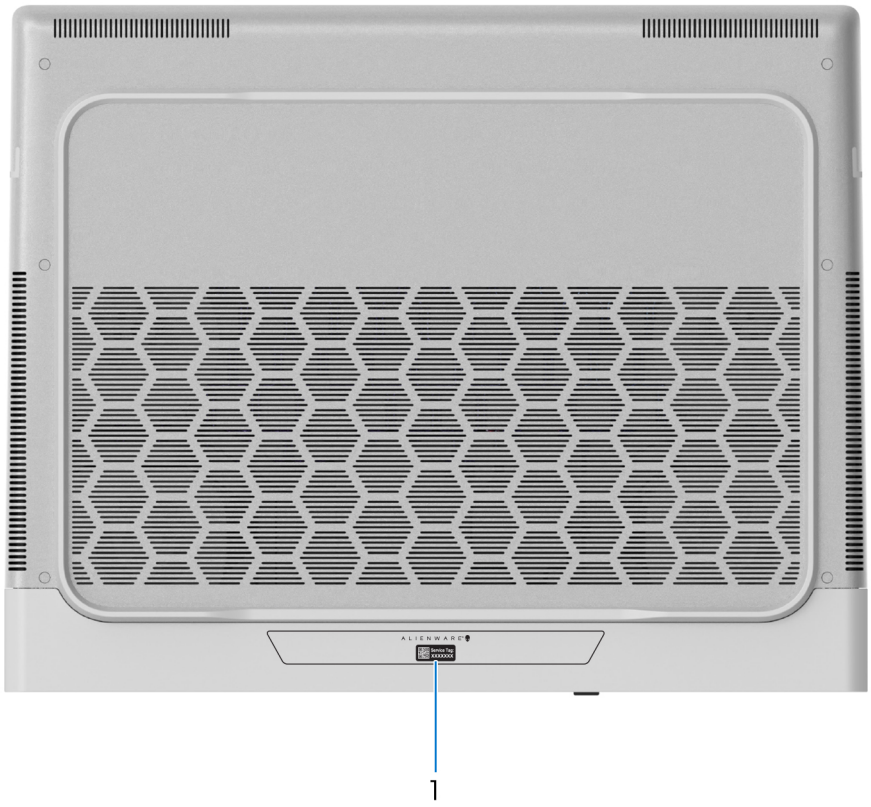
7. **Mini DisplayPort**

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

8. **Power-adapter port**

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

Bottom



1. **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 Alienware x16 R1

Dimensions and weight

The following table lists the height, width, depth, and weight of your Alienware x16 R1.

Table 1. Dimensions and weight

Description	Values
Height:	
Front height	18.57 mm (0.73 in.)
Rear height	18.57 mm (0.73 in.)
Width	364.81 mm (14.36 in.)
Depth	289.98 mm (11.41 in.)
Weight **NOTE:** The weight of your computer depends on the configuration ordered and manufacturing variability.	2.72 kg (6 lb) - maximum

Processor

The following table lists the details of the processors supported by your Alienware x16 R1.

Table 2. Processor

Description	Option one	Option two	Option three
Processor type	13th Generation Intel Core i7-13620H	13th Generation Intel Core i7-13700H	13th Generation Intel Core i9-13900HK
Processor wattage	45 W	45 W	45 W
Processor total core count	10	14	14
Performance-cores	6	6	6
Efficient-cores	4	8	8
Processor total thread counts **NOTE:** Intel® Hyper-Threading Technology is only available on Performance-cores.	16	20	20
Processor speed	Up to 4.90 GHz Turbo	Up to 5 GHz Turbo	Up to 5.40 GHz Turbo
Performance-cores frequency			
Processor base frequency	2.40 GHz	2.40 GHz	2.60 GHz
Maximum turbo frequency	4.90 GHz	5 GHz	5.40 GHz
Processor cache	24 MB	24 MB	24 MB

Table 2. Processor (continued)

Description	Option one	Option two	Option three
Integrated graphics	Intel UHD Graphics	Intel UHD Graphics	Intel UHD Graphics

Chipset

The following table lists the details of the chipset supported by your Alienware x16 R1.

Table 3. Chipset

Description	Values
Chipset	Integrated in the processor
Processor	13th Generation Intel Core i9
DRAM bus width	128 bits
Flash EPROM	32 MB
PCIe bus	Gen4

Operating system

Your Alienware x16 R1 supports the following operating systems:

- Windows 11 Home (64-bit)
- Windows 11 Pro (64-bit)

Memory

The following table lists the memory specifications of your Alienware x16 R1.

Table 4. Memory specifications

Description	Values
Memory slots	Onboard memory
Memory type	Dual-channel LPDDR5
Memory speed	• 5200 MHz • 6000 MHz • 6400 MHz
Maximum memory configuration	32 GB
Minimum memory configuration	16 GB
Memory configurations supported	• 16 GB LPDDR5 at 5200 MHz • 16 GB LPDDR5 at 6000 MHz • 16 GB LPDDR5 at 6400 MHz • 32 GB LPDDR5 at 6000 MHz

External ports

The following table lists the external ports on your Alienware x16 R1.

Table 5. External ports

Description	Values
USB ports	• Two USB 3.2 Gen 1 ports with PowerShare • One USB-C 3.2 Gen 2 port with DisplayPort • One Thunderbolt 4 port with Power Delivery and DisplayPort
Audio port	One headset port - 3.5 mm Universal audio jack
Video port/ports	• One HDMI 2.1 port • One mini Displayport
Media-card reader	One microSD-card slot
Power-adapter port	One 7.40 mm x 5.10 mm DC-in
Security-cable slot	Not supported

Internal slots

The following table lists the internal slots of your Alienware x16 R1.

Table 6. Internal slots

Description	Values
M.2	• One M.2 2230 slot for WiFi and Bluetooth combo card • Two M.2 2230/2280 slots for solid-state drive **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.

Wireless module

The following table lists the Wireless Local Area Network (WLAN) modules supported on your Alienware x16 R1.

Table 7. Wireless module specifications

Description	Option one	Option two
Model number	Killer AX1675i	Killer AX1690i
Transfer rate	Up to 2400 Mbps	Up to 2974 Mbps
Frequency bands supported	2.4 GHz/5 GHz/6 GHz	2.4 GHz/5 GHz/6 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)

Table 7. Wireless module specifications (continued)

Description	Option one	Option two
	NOTE: Wi-Fi 6 is supported in regions where Wi-Fi 6E is unavailable.	**NOTE:** Wi-Fi 6 is supported in regions where Wi-Fi 6E is unavailable.
Encryption	• 64-bit/128-bit WEP • AES-CCMP • TKIP	• 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth	Bluetooth 5.3	Bluetooth 5.3

Audio

The following table lists the audio specifications of your Alienware x16 R1.

Table 8. Audio specifications

Description		Values
Audio controller		Realtek ALC3281
Stereo conversion		Supported
Internal audio interface		High definition audio interface
External audio interface		• Universal Audio Jack • HDMI 2.1 port
Number of speakers		6
Internal-speaker amplifier		Not supported
External volume controls		Keyboard shortcut controls
Speaker output:		
	Average speaker output	2 W
	Peak speaker output	3 W
Subwoofer output		Supported
Microphone		Digital-array microphones in camera assembly

Storage

This section lists the storage options on your Alienware x16 R1.

Your alienware x16 R1 supports two M.2 2230/2280 solid-state drives. The primary drive of your alienware x16 R1 is slot 1.

Table 9. Storage specifications

Storage type	Interface type	Capacity
Two M.2 2230/2280 solid-state drives	PCIe NVMe Gen4 x4, up to 64 Gbps	Up to 4 TB

Media-card reader

The following table lists the media cards supported by your Alienware x16 R1.

Table 10. Media-card reader specifications

Description	Values
Media-card type	One microSD card slot
Media-cards supported	• Micro Secure Digital (mSD) • Micro Secure Digital High Capacity (mSDHC) • Micro Secure Digital Extended Capacity (mSDXC)
NOTE: 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 Alienware x16 R1.

Table 11. Keyboard specifications

Description	Values
Keyboard type	• Cherry backlit keyboard • RGB per-key backlit keyboard
Keyboard layout	QWERTY
Number of keys	• English US, English International, Canada Bilingual MUI, Korean: 85 keys • German, UK, Spanish Latin America, French European: 86 keys • Japanese: 89 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 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.

Camera

The following table lists the camera specifications of your Alienware x16 R1.

Table 12. Camera specifications

Description	Values
Number of cameras	One

Table 12. Camera specifications (continued)

Description		Values
Camera type		FHD RGB+IR camera
Camera location		Front camera
Camera sensor type		CMOS sensor technology
Camera resolution:		
	Still image	2.07 megapixels
	Video	1920 x 1080 (FHD) at 30 fps
Infrared camera resolution:		
	Still image	0.23 megapixels
	Video	640 x 360 at 30 fps
Diagonal viewing angle:		
	Camera	80 degrees
	Infrared camera	86.6 degrees

Touchpad

The following table lists the touchpad specifications of your Alienware x16 R1.

Table 13. Touchpad specifications

Description		Values
Touchpad resolution:		
	Horizontal	1217
	Vertical	681
Touchpad dimensions:		
	Horizontal	112 mm (4.41 in.)
	Vertical	65 mm (2.56 in.)
Touchpad gestures		For more information about touchpad gestures available on Windows, see the Microsoft knowledge base article at support.microsoft.com.

Power adapter

The following table lists the power adapter specifications of your Alienware x16 R1.

Table 14. Power adapter specifications

Description	Option one	Option two
Type	SFF 240 W	SFF 330 W

Table 14. Power adapter specifications (continued)

Description		Option one	Option two
Connector dimensions:			
	External diameter	7.40 mm (0.30 in.)	7.40 mm (0.30 in.)
	Internal diameter	5.10 mm (0.20 in.)	5.10 mm (0.20 in.)
Power-adapter dimensions:			
	Height	23 mm (0.91 in.)	25.40 mm (1 in.)
	Width	78 mm (3.07 in.)	86 mm (3.38 in.)
	Depth	152 mm (5.98 in.)	184 mm (7.24 in.)
Input voltage		100 VAC–240 VAC	100 VAC–240 VAC
Input frequency		50 Hz–60 Hz	50 Hz–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 Alienware x16 R1.

Table 15. Battery specifications

Description		Values
Battery type		6-cell "smart" lithium-ion
Battery voltage		11.40 VDC
Battery weight (maximum)		0.74 lb (0.33 kg)
Battery dimensions:		
	Height	6.35 mm (0.25 in.)
	Width	79.90 mm (3.15 in.)
	Depth	334.50 mm (13.17 in.)
Temperature range:		
	Operating	• Charging: 0°C to 50°C (32°F to 122°F)

Table 15. Battery specifications (continued)

Description		Values
		• Discharging: 0°C to 60°C (32°F to 140°F)
	Storage	-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.
Battery charging time (approximate) **NOTE:** Control the charging time, duration, start and end time, and so 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.		• 0% to 35% in 20 minutes (Express Charge Boost) • 2 hours (Express charge) • 3 hours (Standard charge)
Coin-cell battery		Not supported
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. **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.**		

Display

The following table lists the display specifications of your Alienware x16 R1.

Table 16. Display specifications

Description		Option one	Option two
Display type		16-inch, Quad High Definition plus (QHD+)	16-inch, 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	344.67 mm (13.56 in.)	344.67 mm (13.56 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		4.1 megapixels	4.1 megapixels
Color gamut		sRGB 100% (typical)	DCI P3 100% (typical)
Pixels Per Inch (PPI)		188.7	188.7
Contrast ratio (min.)		1000:1	1000:1

Table 16. Display specifications (continued)

Description	Option one	Option two
Response time (max.)	• 9 ms (typical), 12 ms (maximum) • 3 ms gray to gray (with over drive) • 7 ms gray to gray (without over drive)	• 9 ms (typical), 12 ms (maximum) • 3 ms gray to gray (with over drive) • 7 ms gray to gray (without over drive)
Refresh rate	165 Hz	240 Hz
Horizontal view angle	+/- 85 degrees	+/- 85 degrees
Vertical view angle	+/- 85 degrees	+/- 85 degrees
Pixel pitch	0.134 mm	0.134 mm
Power consumption (maximum)	6 W	7.20 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 Alienware x16 R1.

Table 17. GPU—Integrated

Controller	Memory size	Processor
Intel UHD Graphics	Shared system memory	13th Generation Intel Core i7/i9

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Alienware x16 R1.

Table 18. GPU—Discrete

Controller	Memory size	Memory type
NVIDIA GeForce RTX 4080	12 GB	GDDR6

External display support

The following table lists the external display support for your Alienware x16 R1.

Table 19. External display support

Graphics card	Supported external displays with laptop display enabled	Supported external displays with laptop display disabled
NVIDIA GeForce RTX 4080	2	2
Intel UHD Graphics	2	2

Operating and storage environment

This table lists the operating and storage specifications of your Alienware x16 R1.

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

Table 20. 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 range	-15.2 m to 3048 m (-49.87 ft to 10000 ft)	-15.2 m to 10668 m (-49.87 ft to 35000 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.

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 disable/enable performance boost (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, disable/enable performance boost 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 21. List of keyboard shortcuts

Keys	Description
FN + F1	Disable/enable Performance Boost
FN + F7	Adjust keyboard backlight brightness
FN + F8	Switch to external display
FN + F9	Disable/enable Bluetooth
FN + F10	Decrease display brightness
FN + F11	Increase display brightness
FN + F12 T-PAD	Disable/enable touchpad

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

Table 22. List of Macro keys

Keys	Description
F2	Macro keys **NOTE:** You can configure modes and assign multiple tasks for the macro keys on the keyboard.
F3	
F4	
F5	
F6	

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

Table 23. List of keys to control audio features

Keys	Description
	Mute microphone
	Mute speakers
	Increase volume
	Decrease volume

Dell low blue light display

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.

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:

- Keyboard
- Alien head power button
- Alien head LED on the back of the display

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 24. 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.
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.