


# Alienware m16 R1 AMD Setup and Specifications

## Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

# Contents

<b>Chapter 1: Set up your Alienware m16 R1 AMD</b> .....	<b>4</b>
<b>Chapter 2: Views of Alienware m16 R1 AMD</b> .....	<b>5</b>
Display.....	5
Left.....	6
Top.....	6
Back.....	7
Bottom.....	8
<b>Chapter 3: Specifications of Alienware m16 R1 AMD</b> .....	<b>9</b>
Dimensions and weight.....	9
Processor.....	9
Chipset.....	10
Operating system.....	10
Memory.....	10
External ports.....	11
Internal slots.....	11
Ethernet.....	12
Wireless module.....	12
Audio.....	12
Storage.....	13
Media-card reader.....	13
Keyboard.....	14
Camera.....	14
Touchpad.....	15
Power adapter.....	15
Battery.....	16
Display.....	17
GPU—Integrated.....	18
GPU—Discrete.....	18
External display support.....	18
Operating and storage environment.....	18
<b>Chapter 4: Keyboard shortcuts</b> .....	<b>20</b>
<b>Chapter 5: Low blue light</b> .....	<b>22</b>
<b>Chapter 6: Alienware Command Center</b> .....	<b>23</b>
<b>Chapter 7: Getting help and contacting Alienware</b> .....	<b>24</b>

# Set up your Alienware m16 R1 AMD

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

Connect the power adapter and press the power button.



# Views of Alienware m16 R1 AMD

## Display



- 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.

# Left



## 1. Network port

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

## 2. 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 your USB devices even when your computer is turned off.

**(i) 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.

**(i) 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.

## 3. Universal audio jack

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

# Top



### 1. Touchpad

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

### 2. Left-click area

Press to left-click.

### 3. Right-click area

Press to right-click.

### 4. Power button (Alien head)

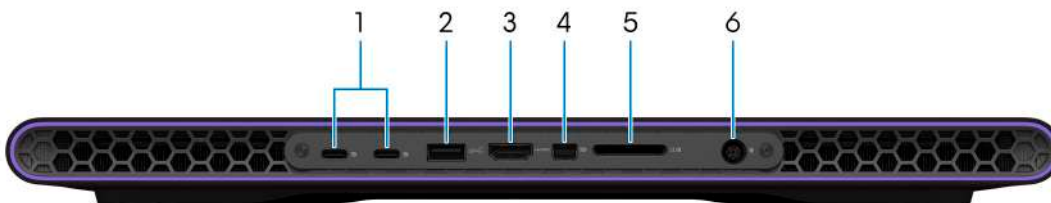
Press to turn on the computer if it is turned off, in sleep state, or in hibernate state.

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

When the computer is turned on, press and hold the power button for four seconds to force shut-down the computer.

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

## Back



### 1. 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.

### 2. USB 3.2 Gen 1 port

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

### 3. HDMI 2.1 port

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

### 4. Mini-DisplayPort

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

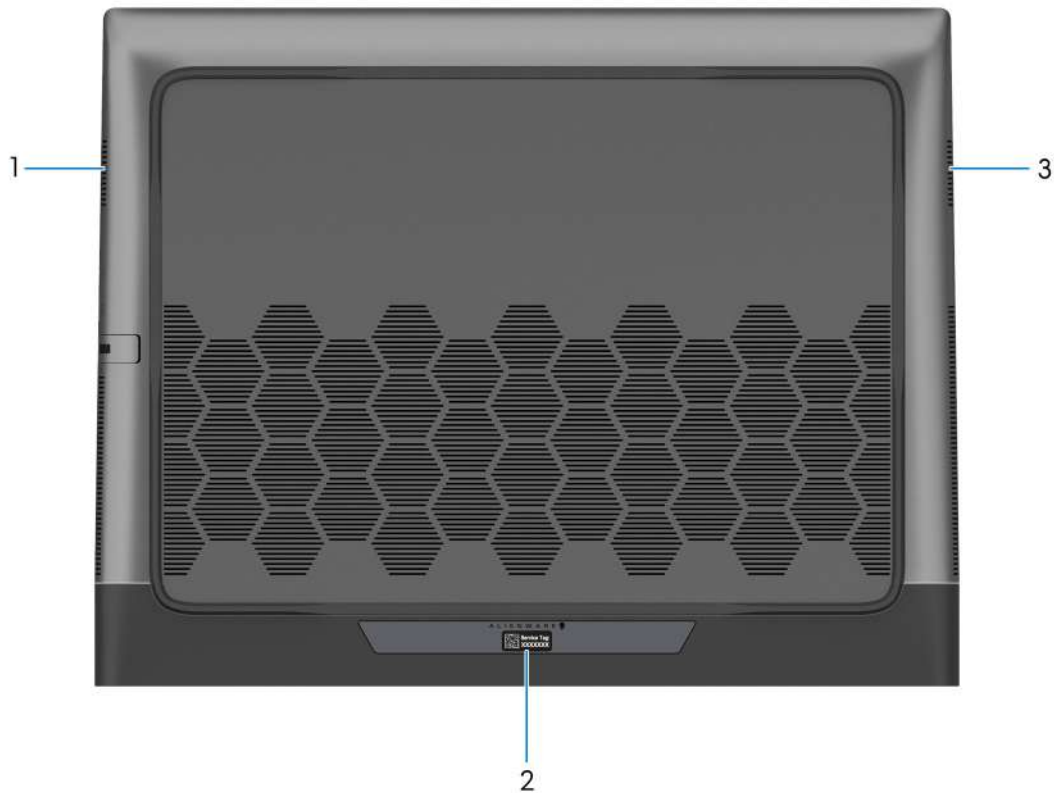
### 5. SD-card slot

Reads from and writes to the SD card.

### 6. Power-adapter port

Connect a power adapter to provide power to your computer.

# 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.




# Specifications of Alienware m16 R1 AMD

## Dimensions and weight

The following table lists the height, width, depth, and weight of your Alienware m16 R1 AMD.


**Table 1. Dimensions and weight**

Description	Values
Height:	
Front height	23.10 mm (0.91 in.)
Rear height	23 mm (0.90 in.)
Width	368.90 mm (14.52 in.)
Depth	289.90 mm (11.41 in.)
Weight  <b>NOTE:</b> The weight of your computer depends on the configuration ordered and manufacturing variability.	3.30 kg (7.28 lb)

## Processor

The following table lists the details of the processors supported by your Alienware m16 R1 AMD.

**Table 2. Processor**

Description	Option one	Option two	Option three
Processor type	AMD Ryzen R7 7745HX	AMD Ryzen R9 7845HX	AMD Ryzen R9 7945HX
Processor wattage	55 W	55 W	55 W
Processor total core count	8	12	16
Performance-cores	8	12	16
Processor total thread counts  <b>NOTE:</b> Intel® Hyper-Threading Technology is only available on Performance-cores.	16	24	32
Processor speed	Up to 5.10 GHz	Up to 5.20 GHz	Up to 5.40 GHz
Performance-cores frequency			
Processor base frequency	3.60 GHz	3 GHz	2.50 GHz
Maximum turbo frequency	5.10 GHz	5.20 GHz	5.40 GHz
Processor cache	32 MB	64 MB	64 MB
Integrated graphics	AMD Radeon 610M	AMD Radeon 610M	AMD Radeon 610M

# Chipset

The following table lists the details of the chipset supported by your Alienware m16 R1 AMD.

**Table 3. Chipset**

Description	Values
Chipset	AMD Ryzen 7/9
Processor	Integrated in the processor
DRAM bus width	64-bit
Flash EPROM	32 MB
PCIe bus	Up to Gen 4.0

# Operating system


Your Alienware m16 R1 AMD supports the following operating systems:

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

# Memory

The following table lists the memory specifications of your Alienware m16 R1 AMD.

**Table 4. Memory specifications**

Description	Values
Memory slots	Two-SODIMM slots
Memory type	DDR5
Memory speed	4800 MT/s, 5200 MT/s  <b>NOTE:</b> The memory configuration varies depending on the country or region the computer is purchased in.
Maximum memory configuration	64 GB
Minimum memory configuration	16 GB
Memory size per slot	8 GB, 16 GB and 32 GB
Memory configurations supported	<ul style="list-style-type: none"><li>• 16 GB, 2 x 8 GB, DDR5, 4800 MT/s/5200 MT/s, dual-channel</li><li>• 32 GB, 2 x 16 GB, DDR5, 4800 MT/s/5200 MT/s, dual-channel</li><li>• 64 GB, 2 x 32 GB, DDR5, 4800 MT/s/5200 MT/s, dual-channel</li></ul>

# External ports

The following table lists the external ports of your Alienware m16 R1 AMD.

**Table 5. External ports**

Description	Values
Network port	One RJ-45 port
USB ports	<ul style="list-style-type: none"> <li>• One USB 3.2 Gen 1 port</li> <li>• One USB 3.2 Gen 1 port with PowerShare</li> <li>• Two USB 3.2 Gen 2 Type-C ports with DisplayPort for computers shipped with NVIDIA GeForce RTX 4080, RTX 4090, and AMD RX 7600M XT graphics card</li> <li>• One USB 3.2 Gen 2 Type-C ports with DisplayPort and one USB 3.2 Gen 2 Type-C ports for computers shipped with NVIDIA GeForce RTX 4060/4070 graphics card</li> </ul>
Audio port	One universal audio jack (RCA, 3.5 mm)
Video port	<ul style="list-style-type: none"> <li>• One HDMI 2.1 port</li> <li>• One mini-DisplayPort</li> </ul>
Media-card reader	One SD-card slot
Power-adaptor 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 m16 R1 AMD.

**Table 6. Internal slots**

Description	Values
M.2	<ul style="list-style-type: none"> <li>• One M.2 2230 and two M.2 2280 solid-state drive slots, for computers shipped with NVIDIA GeForce RTX 4080, RTX 4090, and AMD RX 7600M XT graphics card</li> <li>• Two M.2 2280 solid-state drive slots, for computers shipped with NVIDIA GeForce RTX 4060/4070 graphics card</li> </ul> <p><b>NOTE:</b> To learn more about the features of different types of M.2 cards, search in the Knowledge Base Resource at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p>

# Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Alienware m16 R1 AMD.

**Table 7. Ethernet specifications**

Description	Values
Model number	Realtek RTL8125 integrated Ethernet controller, for computers shipped with NVIDIA GeForce RTX 4060/4070/4080/4090, and AMD RX 7600M XT graphics card
Transfer rate	2.50 Gbps for Realtek RTL8125 Gigabit Ethernet controller

# Wireless module

The following table lists the Wireless Local Area Network (WLAN) modules that are supported on your Alienware m16 R1 AMD.

**Table 8. Wireless module specifications**

Description	Option one	Option two
Model number	Qualcomm WCN6856-DBS	MediaTek MT7922
Transfer rate	Up to 3571 Mbps	Up to 2400 Mbps
Frequency bands supported	2.4 GHz/ 5 GHz/ 6 GHz	2.4 GHz/ 5 GHz/ 6 GHz
Wireless standards	<ul style="list-style-type: none"> <li>• WiFi 802.11a/b/g</li> <li>• Wi-Fi 4 (WiFi 802.11n)</li> <li>• Wi-Fi 5 (WiFi 802.11ac)</li> <li>• Wi-Fi 6E (WiFi 802.11ax)</li> </ul>	<ul style="list-style-type: none"> <li>• WiFi 802.11a/b/g</li> <li>• Wi-Fi 4 (WiFi 802.11n)</li> <li>• Wi-Fi 5 (WiFi 802.11ac)</li> <li>• Wi-Fi 6E (WiFi 802.11ax)</li> </ul>
Encryption	<ul style="list-style-type: none"> <li>• 64-bit/128-bit WEP</li> <li>• AES-CCMP</li> <li>• TKIP</li> </ul>	<ul style="list-style-type: none"> <li>• 64-bit/128-bit WEP</li> <li>• AES-CCMP</li> <li>• TKIP</li> </ul>
Bluetooth wireless card	Bluetooth 5.3 wireless card	Bluetooth 5.3 wireless card
	<p><b>NOTE:</b> The version of the Bluetooth wireless card may vary depending on the operating system that is installed on your computer.</p>	

# Audio

The following table lists the audio specifications of your Alienware m16 R1 AMD.

**Table 9. Audio specifications**

Description	Values
Audio controller	Realtek ALC3254
Stereo conversion	Supported
Internal audio interface	High definition audio interface
External audio interface	<ul style="list-style-type: none"> <li>• One universal audio jack (RCA, 3.5 mm)</li> <li>• One HDMI 2.1 port</li> </ul>

**Table 9. Audio specifications (continued)**

Description		Values
Number of speakers		2
Internal-speaker amplifier		Supported
External volume controls		Keyboard shortcut controls
Speaker output:		
	Average speaker output	2 W
	Peak speaker output	4 W
Subwoofer output		Not supported
Microphone		Digital-array microphones in camera assembly

## Storage

This section lists the storage options on your Alienware m16 R1 AMD.

Your Alienware m16 R1 AMD supports the following storage configuration:

- One M.2 2230 and two M.2 2280 solid-state drive slots, for computers shipped with NVIDIA GeForce RTX 4080, RTX 4090, and AMD RX 7600M XT graphics card
- Two M.2 2280 solid-state drive slots, for computers shipped with NVIDIA GeForce RTX 4060/4070 graphics card

The primary drive of your Alienware m16 R1 AMD varies with the storage configuration. The primary drive of your computer is the M.2 2280 drive where the operating system is installed.


**Table 10. Storage specifications**

Storage type	Interface type	Capacity
M.2 2230 solid-state drive	PCIe Gen4 x4 NVMe, up to 64 Gbps	Up to 512 GB
M.2 2280 solid-state drive	PCIe Gen4 x4 NVMe, up to 64 Gbps	Up to 4 TB

## Media-card reader

The following table lists the media cards supported by your Alienware m16 R1 AMD.

**Table 11. Media-card reader specifications**

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

# Keyboard

The following table lists the keyboard specifications of your Alienware m16 R1 AMD.

**Table 12. Keyboard specifications**

Description	Values
Keyboard type	<ul style="list-style-type: none"> <li>1-zone RGB keyboard</li> <li>RGB per key</li> <li>RGB per key, backlit Cherry mechanical keyboard</li> </ul>
Keyboard layout	QWERTY
Number of keys	<ul style="list-style-type: none"> <li>United States and Canada: 85 keys</li> <li>United Kingdom: 86 keys</li> <li>Japan: 89 keys</li> </ul>
Keyboard size	X=19.05 mm key pitch Y=19.05 mm key pitch
Keyboard shortcuts	<p>Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. To type the alternate character, press Shift and the desired key. To perform secondary functions, press Fn and the desired key.</p> <p><b>NOTE:</b> You can define the primary behavior of the function keys (F1–F12) changing <b>Function Key Behavior</b> in BIOS setup program.</p> <p>For more information, see <a href="#">Keyboard shortcuts</a>.</p>

# Camera

The following table lists the camera specifications of your Alienware m16 R1 AMD.

**Table 13. Camera specifications**

Description	Values
Number of cameras	One
Camera type	<ul style="list-style-type: none"> <li>One FHD RGB camera, for computers shipped with a 165 Hz QHD+ display</li> <li>One FHD-RGB Infrared camera, for computers shipped with a 240 Hz QHD+ and 480 Hz FHD+ display</li> </ul>
Camera location	Front camera
Camera sensor type	CMOS sensor technology
Camera resolution:	
Still image	2.07 megapixel
Video	1920 x 1080 (FHD) at 30 fps
Infrared camera resolution:	
Still image	0.23 megapixel

**Table 13. Camera specifications (continued)**

Description		Values
	Video	640 x 360 at 30 fps
Diagonal viewing angle:		
	Camera	<ul style="list-style-type: none"> <li>FHD RGB: 82 degrees</li> <li>FHD-RGB Infrared: 80 degrees</li> </ul>
	Infrared camera	86.6 degrees

## Touchpad

The following table lists the touchpad specifications of your Alienware m16 R1 AMD.

**Table 14. Touchpad specifications**

Description		Values
Touchpad resolution:		
	Horizontal	>300 DPI
	Vertical	749
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 <a href="https://support.microsoft.com">support.microsoft.com</a> .


## Power adapter

The following table lists the power adapter specifications of your Alienware m16 R1 AMD.

**Table 15. Power adapter specifications**

Description	Option one	Option two
Type	330 W AC adapter	330 W SFF AC adapter
Connector dimensions:		
	External diameter	7.40 mm
	Internal diameter	5.10 mm
Power-adapter dimensions:		
	Height	43 mm (1.69 in.)
	Width	100 mm (3.94 in.)
	Depth	200 mm (7.87 in.)
Input voltage	100 VAC–240 VAC	100 VAC–240VAC


**Table 15. Power adapter specifications (continued)**

Description		Option one	Option two
Input frequency		50 Hz–60 Hz	50 Hz–60 Hz
Input current (maximum)		4.40 A	4.40 A
Output current (continuous)		16.92 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)
 <b>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.</b>			

## Battery

The following table lists the battery specifications of your Alienware m16 R1 AMD.

**Table 16. Battery specifications**

Description		Values
Battery type		6-cell lithium-ion (86 Wh)
Battery voltage		11.40 VDC
Battery weight (maximum)		0.34 kg (0.75 lb)
Battery dimensions:		
	Height	7.56 mm (0.30 in.)
	Width	295.20 mm (11.62 in.)
	Depth	77.70 mm (3.06 in.)
Temperature range:		
	Operating	<ul style="list-style-type: none"> <li>Charging: 0°C to 50°C (32°F to 122°F)</li> <li>Discharging: 0°C to 60°C (32°F to 140°F)</li> </ul>
	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)  <b>NOTE:</b> 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 <a href="http://www.dell.com/support">www.dell.com/support</a> .		<ul style="list-style-type: none"> <li>Standard charging: 3 hours, when computer is turned off</li> <li>ExpressCharge: 2 hours, when computer is turned off</li> <li>ExpressChargeBoost: 20 minutes, from 0% up to 35% when computer is turned off</li> </ul>
Coin-cell battery		None



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

Description	Values
⚠	<b>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.</b>
⚠	<b>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.</b>

## Display

The following table lists the display specifications of your Alienware m16 R1 AMD.

**Table 17. Display specifications**

Description	Option one	Option two	Option three
Display type	16-inch, Quad High Definition plus (QHD+)	16-inch, Quad High Definition plus (QHD+)	16-inch, Full High Definition plus (FHD+)
Display-panel technology	Wide Viewing Angle (WVA)	Wide Viewing Angle (WVA)	Wide Viewing Angle (WVA)
Display-panel dimensions (active area):			
Height	215.42 mm	215.42 mm	215.42 mm
Width	344.68 mm	344.68 mm	344.68 mm
Diagonal	406.46 mm	406.46 mm	406.46 mm
Display-panel native resolution	2560 x 1600	2560 x 1600	1920 x 1200
Luminance (typical)	300 nits	300 nits	300 nits
Megapixels	4.1	4.1	2.3
Color gamut (typical)	sRGB 100%	DCI-P3 100%	DCI-P3 100%
Pixels Per Inch (PPI)	188.70	188.70	141.50
Contrast ratio (typical)	1000:1	1000:1	1000:1
Response time (typical)	<ul style="list-style-type: none"> <li>With Overdrive: 3 ms</li> <li>Without Overdrive: 7 ms</li> </ul>	<ul style="list-style-type: none"> <li>With Overdrive: 3 ms</li> <li>Without Overdrive: 7 ms</li> </ul>	<ul style="list-style-type: none"> <li>With Overdrive: 3 ms</li> <li>Without Overdrive: 7 ms</li> </ul>
Refresh rate	165 Hz	240 Hz	480 Hz
Horizontal view angle (typical)	+/- 85 degrees	+/- 85 degrees	+/- 85 degrees
Vertical view angle (typical)	+/- 85 degrees	+/- 85 degrees	+/- 85 degrees
Pixel pitch	0.13 mm	0.13 mm	0.18 mm
Power consumption (maximum)	6 W	7.2 W	6.75 W
Anti-glare vs glossy finish	Anti-glare	Anti-glare	Anti-glare
Touch options	Not supported	Not supported	Not supported

**Table 17. Display specifications (continued)**

Description	Option one	Option two	Option three
Adaptive sync support	G-SYNC, AdaptiveSync, FreeSync	G-SYNC, AdaptiveSync, FreeSync	G-SYNC, AdaptiveSync, FreeSync

## GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Alienware m16 R1 AMD.

**Table 18. GPU—Integrated**

Controller	Memory size	Processor
AMD Radeon 610M	Shared system memory	AMD Ryzen R7/R9

## GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Alienware m16 R1 AMD.

**Table 19. GPU—Discrete**

Controller	Memory size	Memory type
NVIDIA GeForce RTX 4060	8 GB	GDDR6
NVIDIA GeForce RTX 4070	8 GB	GDDR6
NVIDIA GeForce RTX 4080	12 GB	GDDR6
NVIDIA GeForce RTX 4090	16 GB	GDDR6
AMD Radeon RX 7600M XT	8 GB	GDDR6

## External display support

The following table lists the external display support for your Alienware m16 R1 AMD.

**Table 20. External display support**


Graphics card	Supported external displays with laptop display enabled	Supported external displays with laptop display disabled
<ul style="list-style-type: none"> <li>• AMD Radeon RX 7600M XT</li> <li>• NVIDIA GeForce RTX 4060</li> <li>• NVIDIA GeForce RTX 4070</li> <li>• NVIDIA GeForce RTX 4080</li> <li>• NVIDIA GeForce RTX 4090</li> </ul>	<ul style="list-style-type: none"> <li>• 2</li> <li>• 2</li> <li>• 2</li> <li>• 2</li> <li>• 2</li> </ul>	<ul style="list-style-type: none"> <li>• 2</li> <li>• 2</li> <li>• 2</li> <li>• 2</li> <li>• 2</li> </ul>

## Operating and storage environment

This table lists the operating and storage specifications of your Alienware m16 R1 AMD.

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

**Table 21. 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)	5% to 95% (non-condensing)
Vibration (maximum)*	0.66 GRMS	Not applicable
Shock (maximum)	140 G†	Not applicable
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)
 <b>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.</b>		

\* 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 **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 disables/enables 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 22. List of keyboard shortcuts**

Keys	Description
	Disable/enable Performance Boost
	Adjust keyboard backlight brightness
	Switch to external display
	Disable/enable Bluetooth
	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 23. List of Macro keys**

Keys	Description
	Macro keys <b>NOTE:</b> 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 24. List of keys to control audio features**

Keys	Description
	Mute microphone
	Mute speakers
	Increase volume
	Decrease volume

# Low blue light

 **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
- stadium
- AlienHead power button
- AlienHead 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](http://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 25. Alienware products and online self-help resources**

Self-help resources	Resource location
Information about Alienware products and services	<a href="http://www.alienware.com">www.alienware.com</a>
My Dell app	
Tips	
Contact Support	In Windows search, type <b>Contact Support</b> , and press <b>Enter</b> .
Online help for operating system	<a href="http://www.dell.com/support/windows">www.dell.com/support/windows</a>
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 <a href="http://www.dell.com/support">www.dell.com/support</a> .  For more information on how to find the Service Tag for your computer, see <a href="#">Locate the Service Tag on your computer</a> .
Videos providing step-by-step instructions to service your computer	<a href="http://www.youtube.com/alienwareservices">www.youtube.com/alienwareservices</a>

## Contacting Alienware

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