

# TECHNICAL SPECIFICATIONS

## m16 R2



### Chassis Details

#### System Dimensions

Height (rear): 23.5mm (0.93 in.)  
Height (front): 19.99 mm (0.79 in.)  
Height (peak): 23.5mm (0.93 in.)  
Length: 249.4mm (9.82 in)  
Width: 363.9mm (14.33 in)

Starting weight: 2.55kg (5.62 lbs)  
Max weight: 2.61kg (5.75 lbs)

#### Exterior Chassis Color and Finish

Dark Metallic Moon anodized aluminum

#### Chassis Features

Featuring the Alienware Legend 3.0 industrial design language  
Perimeter foot enables increased bottom side airflow aiding system and gaming performance  
Reformed V-rail edges aid in daily use providing an ergonomic approach to using the laptop  
All configurations are certified for Dolby Vision and Dolby Atmos technologies  
Engineered with Alienware Cryo-Tech™ Cooling technology  
Constructed with copper alloy thermal components

#### Display Options

16" QHD+ (2560 x 1600) 240Hz, 3ms, ComfortView Plus, NVIDIA G-SYNC and AMD FreeSync + Dynamic Display Switching, 100% sRGB color gamut

#### Additional Display Specifications

300-nits brightness  
1000:1 contrast ratio  
Anti-glare coating  
3ms Grey-to-Grey response time (with overdrive) / 7ms Grey-to-Grey response time (without overdrive)

#### Battery Detail

Lithium Ion (90 Whr, 6-cell) Battery

#### Integrated Camera

Alienware FHD (1920 x 1080 resolution) camera with dual-array microphones and Windows Hello IR support

#### AlienFX Lighting Detail

Logo on lid, touch pad border, and power button  
Programmable with up to 16.8 million distinct colors

#### Keyboard Options

Alienware M Series 1-zone AlienFX keyboard (Standard)  
1.8mm key travel  
Includes Anti-ghost technology  
Alienware M Series per-key AlienFX RGB keyboard  
1.8mm key travel  
Includes N-key rollover technology

#### Touchpad Detail

Multi-touch gesture touchpad with integrated scrolling and a 1-zone AlienFX border

#### Power Adapter Options

280W (standard) 7.4mm Barrel AC Adapter  
240W Small Form Factor GaN 7.4mm Barrel AC Adapter

#### Core and Compute Details

Intel® Core™ Ultra 7 processor 155H (24MB cache, 16 cores, 1.40 to 4.80 GHz P-Core)  
Intel® Core™ Ultra 9 processor 185H (24MB cache, 16 cores, 2.30 to 5.10 GHz P-Core)

### Graphics\* Options

NVIDIA® GeForce RTX™ 4050 mobile graphics, 6GB GDDR6  
Max TGP: 135W  
Dynamic Boost (full speed): 15W  
Base clock: 2370 MHz  
Boost clock: 2370 MHz  
NVIDIA® GeForce RTX™ 4060 mobile graphics, 8GB GDDR6  
Max TGP: 135W  
Dynamic Boost (full speed): 15W  
Base clock: 2295 MHz  
Boost clock: 2370 MHz  
NVIDIA® GeForce RTX™ 4070 mobile graphics, 8GB GDDR6  
TGP: 140W  
Dynamic Boost (full speed): 10W  
Base clock: 2070 MHz  
Boost clock: 2175 MHz

### Memory\* Options

8GB Dual-Channel DDR5 5600MHz (China only)  
16GB (8GB x2) Dual-Channel DDR5 5600MHz  
16GB Dual-Channel DDR5 5600MHz (China only)  
32GB (16GB x2) Dual-Channel DDR5 5600MHz  
32GB Dual-Channel DDR5 5600MHz (China only)  
64GB (32GB x2) Dual-Channel DDR5 5600MHz

### Memory Slots

2x DDR5 SO-DIMMs

### Storage\* Options

#### SINGLE STORAGE CONFIGURATIONS

512GB PCIe NVMe M.2 SSD  
1TB PCIe NVMe M.2 SSD  
2TB PCIe NVMe M.2 SSD  
4TB PCIe NVMe M.2 SSD

#### DUAL STORAGE CONFIGURATIONS

2TB (2x 1TB PCIe NVMe M.2 SSD)  
4TB (2x 2TB PCIe NVMe M.2 SSD)  
8TB (2x 4TB PCIe NVMe M.2 SSD)

RAID 0 is supported by the system and is offered as a dual storage shipping configurations.

### Wireless Options

Intel® Killer™ AX1675 Wi-Fi 6E 2x2 and Bluetooth 5.3 Wireless card  
Intel® BE202 2x2 and Bluetooth 5.4 Wireless Card with Wifi 7 capabilities\*\*

### External Chassis Connections

#### Left

(1x) RJ-45  
(1x) Global headset jack

#### Back

(1x) Power/DC-in Port  
(1x) Type-C (Thunderbolt 4.0 , USB 4 Gen 2, 15W (3A/5V) Power Delivery and DisplayPort 1.4 to iGPU) Port  
(1x) Type-C (USB 3.2 Gen 2, DisplayPort 1.4 to dGPU) Port  
(1x) HDMI 2.1 to dGPU Output Port

#### Right

(1x) microSD Card Reader  
(1x) Type-A USB 3.2 Gen 1 Port with PowerShare technology  
(1x) Type-A USB 3.2 Gen 1 Port

### Software

#### Operating System Options (Varies by Region)

Windows® 11 (64-bit) (Standard)  
Windows® 11 Pro (64-bit)

#### Alienware Command Center

Brand new architecture with redesigned UI/UX  
Intuitive dashboard navigates all features, including thermals, system performance, overclocking, and themes  
- Game Library to manage titles from multiple services  
- AlienFX supports full RGB values up to 16.8 million colors, keybinds and calibration settings on peripherals  
- Power Management pre-sets or manual controls

\*SSDs are user-replaceable for up to 8TB of total SSD storage. Users should purchase the SSD bracket kit available on dell.com.

\*\*Wifi 7 enabled after software update in 2024. Operating system and compatible router required. Router requires a separate purchase. Wifi 6E and above connectivity is only available in [select locations](#). Check availability with your service provider.