

ALIENWARE m15 R7



ALIENWARE'S MOST POWERFUL 15-INCH LAPTOP

Facts and Details:

- The Alienware m15 R7 has the most powerful graphics on any 15" Alienware laptop has the highest TDP of any 15" Alienware laptop in history.*
- Alienware M Series laptops are fundamentally about prioritizing power and pure watts to its components with the idea of having gamers experience their favorite games with high frame rates and graphics settings maximized.
- The Alienware m15 R7 has updated its Alienware Cryo-tech architecture. The newly developed thermal technology has more, thinner, and wider fan blades than the m15 R5 or R6. Configurations built with the NVIDIA GeForce RTX 3060 or above now include updated fans with a 37.5% thinner blade thickness**, 2.3x more total blades across GPU and CPU fans**, larger and up to 59mm fan blades**.
- m15 R7 now delivers up to 1.3x more airflow** with an 87% improvement in internal airflow obstruction**. This means critical components are receiving more air with less effort.
- Each configuration also includes our patent-pending Smart Fan control technology where each individual fan can independently spin-up, slow-down or remain steady according to various sensors within the system.
- Using a complex, yet well defined and confidential set of parameters, gamers can select from five uniquely Tailored Power States according to their needs including : Full Speed (max power), Performance mode (graphics priority), Balanced mode (balanced CPU/GPU), battery save mode, and Quiet mode (acoustics priority).
- Features three keyboard options with a 1.8mm key travel spanning a 1-zone AlienFX backlit keyboard, to a per-key AlienFX backlit keyboard, to the CherryMX ultra low-profile mechanical laptop keyboard with per-key AlienFX lighting.
- All M Series laptops will be enabled for Dolby Vision and Dolby Atmos providing a rich visual experience and surround sound that are both designed by the studios that originally created the content.
- ComfortView Plus, our hardware based low blue light technology that that does not degrade picture quality is available on all configurations as well.
- Systems weighs a maximum of 3.09 Kgs. (6.82 Lbs.)and includes an 87 Whr Lithium-Ion battery
- Dimensions and Details:
 - Length: 272.5 mm. (10.73 in.)
 - Width: 356.2 mm. (14.02 in.)
 - Height (peak): 23.95 mm. (0.9429 in.)
 - Maximum Weight: 2.69 Kgs. (5.93 Lbs.)
 - Color: Dark Side of the Moon

*Based on internal Dell analysis, Feb 2022.

**Based on internal Dell analysis, on Feb 2022, using configurations that include NVIDIA GeForce RTX 3060 graphics and higher.

TECHNICAL SPECIFICATIONS



Chassis Details

System Dimensions

- Height (rear): 20.6 mm. (0.811 in.)
- Height (front): 12.9 mm. (0.51 in.)
- Height (peak): 23.95 mm. (0.9429 in.)
- Depth: 272.5 mm. (10.73 in.)
- Width: 356.2 mm. (14.02 in.)
- Lowest weight: 2.42 Kgs. (5.34 Lbs.)
- Maximum weight: 2.69 Kgs. (5.93 Lbs.)
- Exterior Chassis Color and Finish
- Dark Side of the Moon

Chassis Features

- Based on Alienware's Legend 2.0 industrial design language
- Engineered with Alienware Cryo-Tech™ Cooling technology
- Constructed with copper alloy thermal components
- Includes Alienware's Element 31 thermal interface material (only w/ 3070 Ti or 3080 Ti graphics configurations)

Display Options

- 15.6" FHD (1920 x 1080) 165Hz 3ms with ComfortView Plus, NVIDIA G-SYNC and Advanced Optimus
- 15.6" FHD (1920 x 1080) 360Hz 1ms with ComfortView Plus, NVIDIA G-SYNC and Advanced Optimus
- 15.6" QHD (2560 x 1440) 240Hz 2ms with ComfortView Plus, NVIDIA G-SYNC and Advanced Optimus

Additional Display Specifications

- FHD panels feature 300-nits brightness and 100% sRGB color gamut
- QHD panel features 400-nits brightness and 99% DCI-P3 color gamut

Battery Detail

- Lithium Ion (56 Whr) Battery with Alienware Battery Defender technology (Standard)
- Lithium Ion (86 Whr) Battery with Alienware Battery Defender technology

Integrated Camera Options

- Alienware HD (1280x720 resolution) camera with dual-array microphones (Standard)
- Alienware HD (1280x720 resolution) camera with dual-array microphones and Windows Hello IR support

AlienFX Lighting Detail

- 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-ghosting technology
- Alienware M Series per-key AlienFX RGB keyboard
 - 1.8mm key travel
 - Includes N-key rollover technology
- Alienware's CherryMX ultra low-profile mechanical laptop keyboard with per-key AlienFX lighting
 - 1.8mm key travel
 - Includes N-key rollover technology

Touchpad Detail

- Multi-touch gesture touchpad with integrated scrolling

Power Adapter Options

- 180W (standard)
- 240W
- 240W Small Form Factor GaN FET adapter

Core and Compute Details

- Intel® Core™ i7 12700H (14-Core/20-Thread, 24MB L3 Cache, up to 4.7GHz Max Turbo Frequency)

Graphics* Options

- NVIDIA® GeForce RTX™ 3050 Ti 4GB GDDR6
- NVIDIA® GeForce RTX™ 3060 6GB GDDR6
- NVIDIA® GeForce RTX™ 3070 Ti 8GB GDDR6
- NVIDIA® GeForce RTX™ 3080 Ti 16GB GDDR6

Graphics Specifications:

- NVIDIA® GeForce RTX™ 3050 Ti 4GB GDDR6
 - TGP: 80W
 - Dynamic Boost (full speed): 10W
 - Maximum Graphics Power: 90W
 - Base clock: 1462.5 MHz
 - Boost clock: 1695 MHz

- NVIDIA® GeForce RTX™ 3060 6GB GDDR6
 - TGP: 115W
 - Dynamic Boost (full speed): 15W
 - Maximum Graphics Power: 130W
 - Base clock: 1387 MHz
 - Boost clock: 1702 MHz

- NVIDIA® GeForce RTX™ 3070 Ti 8GB GDDR6
 - TGP: 125W
 - Dynamic Boost (full speed): 15W
 - Maximum Graphics Power: 140W
 - Base clock: 1035 MHz
 - Boost clock: 1485 MHz

- NVIDIA® GeForce RTX™ 3080 Ti 16GB GDDR6
 - TGP: 125W
 - Dynamic Boost (full speed): 15W
 - Maximum Graphics Power: 140W
 - Base clock: 1180 MHz
 - Boost clock: 1455 MHz

Memory* Options

- 16GB Dual-Channel DDR5 4800MHz
- 32GB Dual-Channel DDR5 4800MHz
- 64GB Dual-Channel DDR5 4800MHz

Memory Slots

- 2x DDR5 SO-DIMMs

Storage* Options

SINGLE STORAGE CONFIGURATIONS

- 256GB PCIe NVMe M.2 SSD
- 512GB PCIe NVMe M.2 SSD
- 1TB PCIe NVMe M.2 SSD
- 2TB PCIe NVMe M.2 SSD

DUAL STORAGE CONFIGURATIONS

- 512GB (2x 256GB PCIe NVMe M.2 SSD)
- 1TB (2x 512GB PCIe NVMe M.2 SSD)
- 2TB (2x 1TB PCIe NVMe M.2 SSD)
- 4TB (2x 2TB PCIe NVMe M.2 SSD)

RAID is supported by the system but not offered as a shipping configuration

Dual drive support is for configurations with NVIDIA GeForce RTX 3060 or higher.

Wireless Options

- Intel® Wi-Fi 6 AX201 802.11ax 2x2 Wireless LAN and Bluetooth 5.2 (Standard)
- Intel® Killer™ Wi-Fi 6E AX1675 802.11ax 2x2 Wireless Lan and Bluetooth 5.2

External Chassis Connections

Left

- (1x) RJ-45 Killer E3100 2.5Gbps Ethernet Port (only w/ 3060, 3070 Ti, or 3080 Ti graphics)
- (1x) RJ-45 Realtek RTL8111H-CG 1Gbps Ethernet Port (only w/ 3050 Ti graphics)
- (1x) Global headset jack

Right

- (1x) Type-A USB 3.2 Gen 1 Port
- (1x) Type-A USB 3.2 Gen 1 Port w/ PowerShare

Back

- (1x) Power/DC-in Port
- (1x) USB Type-C (Thunderbolt 4, USB4®, 15W (5V/3A) Power Delivery, and DisplayPort 1.4) Port (only w/ 3060, 3070 Ti, and 3080 Ti graphics)
- (1x) USB Type-C (USB 3.2 Gen 2, 15W (5V/3A) Power Delivery, and DisplayPort 1.4) Port (only w/ 3050 Ti graphics)
- (1x) Type-A USB 3.2 Gen 1 Port
- (1x) HDMI 2.1 Output Port

Software

- Operating System Options (Varies by Region)
 - Windows® 11 (64-bit) (Standard)
 - Windows® 11 Pro (64-bit)

Alienware Command Center

- Dashboard navigates all features, including themes, system performance, and overclocking
 - Game Library to manage titles from multiple services
 - FX supports full RGB values up to 16.8 million colors
 - Power Management adjusts power plans with a game
 - Overclocking controls for graphics performance and overclocking profiles