

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

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
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 adapter

Core and Compute Details

AMD Ryzen™ 7 6800H (8-Core/16 Thread, 20MB Cache, up to 4.7 GHz max boost)
AMD Ryzen™ 9 6900HX (8-Core/16 Thread, 20MB Cache, up to 4.9 GHz max boost)

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 (peak): 25W
Maximum Graphics Power: 140W
Base clock: 1387 MHz
Boost clock: 1702 MHz

NVIDIA® GeForce RTX™ 3070 Ti 8GB GDDR6
TGP: 125W
Dynamic Boost (peak): 25W
Maximum Graphics Power: 150W
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

8GB DDR5 4800MHz
16GB Dual-Channel DDR5 4800MHz
32GB 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 RTX 3060 or higher.

Wireless Options

Mediatek Wi-Fi 6 MT7921 2x2 Wireless LAN and Bluetooth 5.2
Qualcomm Wi-Fi 6E WCN6856 Dual 2x2 Wireless LAN and Bluetooth 5.2 [Coming Summer 2022]

External Chassis Connections

Left

(1x) RJ-45 Realtek RTL8125BGS 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) Type-C (Includes USB4®, 15W (3A/5V) Power Delivery, and DisplayPort 1.4) Port (only w/ 3060, 3070 Ti, and 3080 Ti graphics) [USB4 support coming Summer 2022]
(1x) Type-C (USB 3.2 Gen 2, 15W (3A/5V) 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 system performance and overclocking profiles
- Sound Center dials in the perfect sound by managing sound profiles, audio effects, and Audio Recon