

Alienware Area-51m R2 / Technical Specifications

Feature Technical Specification

Model Number	R2
Processor Options	10th Gen Intel® Core™ i7 10700 (8-Core, 16MB Cache, 2.9GHz to 4.8GHz w/Turbo Boost Max 3.0) 10th Gen Intel® Core™ i7 10700K (8-Core, 16MB Cache, 3.8GHz to 5.1GHz w/Turbo Boost Max 3.0) 10th Gen Intel® Core™ i9 10900 (10-Core, 20MB Cache, 2.8GHz to 5.2GHz w/Thermal Velocity Boost) 10th Gen Intel® Core™ i9 10900K (10-Core, 20MB Cache, 3.7GHz to 5.3GHz w/Thermal Velocity Boost)
Operating System	Microsoft® Windows® 10 Home 64-bit Microsoft® Windows® 10 Pro 64-bit
Chipset	Desktop Intel® Z490 Chipset (all configurations)
Memory Options	8GB Dual Channel DDR4 at 2933MHz; up to 64GB (additional memory sold separately) 16GB Dual Channel DDR4 at 2933MHz; up to 64GB (additional memory sold separately) 32GB Dual Channel DDR4 at 2933MHz; up to 64GB (additional memory sold separately) 64GB Dual Channel DDR4 at 2933MHz 16GB Dual Channel DDR4 XMP at 3200MHz; up to 32GB (additional memory sold separately) 32GB Dual Channel DDR4 XMP at 3200MHz
Storage Options	SINGLE STORAGE CONFIGURATIONS 256GB NVMe M.2 PCIe SSD 512GB NVMe M.2 PCIe SSD 2TB NVMe PCIe M.2 SSD DUAL STORAGE CONFIGURATIONS 256GB PCIe M.2 SSD + 1TB 7200 RPM Hard Drive 512GB PCIe M.2 SSD + 1TB 7200 RPM Hard Drive DUAL STORAGE RAID 0 CONFIGURATIONS 512GB RAID 0 (2x 256GB NVMe M.2 PCIe SSDs) 1TB RAID 0 (2x 512GB NVMe M.2 PCIe SSDs) 2TB RAID 0 (2x 1TB NVMe M.2 PCIe SSDs) 4TB RAID 0 (2x 2TB NVMe M.2 PCIe SSDs) RAID 0 PLUS CONFIGURATIONS 512GB (2x 256GB PCIe M.2 SSDs) RAID 0 [Boot] + 1TB 7200 RPM Hard Drive [Storage] 1TB (2x 512GB PCIe M.2 SSD) RAID 0 [Boot] + 1TB 7200 RPM Hard Drive [Storage] 2TB (2x 1TB PCIe M.2 SSD) RAID 0 [Boot] + 1TB 7200 RPM Hard Drive [Storage] 1TB (2x 512GB PCIe M.2 SSD) RAID 0 [Boot] + 512GB PCIe M.2 SSD [Storage] 2TB (2x 1TB PCIe M.2 SSDs) RAID 0 [Boot] + 1TB NVMe M.2 PCIe SSD [Storage] 1TB (2x 512GB PCIe M.2 SSDs) RAID 0 [Boot] + 1TB (2x 512GB NVMe M.2 PCIe SSD) Non-Raid [Storage] 2TB (2x 1TB PCIe M.2 SSD) RAID 0 [Boot] + 2TB (2x 1TB PCIe M.2 SSD) Non-Raid [Storage]
Graphics Options	NVIDIA® GeForce GTX® 1660 Ti 6GB GDDR6 NVIDIA® GeForce RTX™ 2070 SUPER 8GB GDDR6 NVIDIA® GeForce RTX™ 2080 SUPER 8GB GDDR6
Alienware Cryo-Tech™ Details	<ul style="list-style-type: none">53 CPU fan blades53 GPU fan blades70mm CPU fan blade diameter70mm GPU fan blade diameter5x copper-alloy heat pipes708.6g of copper-alloy materialVapor Chamber cooling technology (available with configs featuring 7-phase or more GPU voltage regulation)
Hyper-Efficient Voltage Regulation Details	Configurations based on NVIDIA® GeForce GTX® 1660 Ti graphics <ul style="list-style-type: none">8-phase CPU voltage regulation3-phase GPU voltage regulation Configurations based on AMD Radeon™ RX 5700M graphics <ul style="list-style-type: none">8-phase CPU voltage regulation7-phase GPU voltage regulation Configurations based on NVIDIA® GeForce RTX® 2060 graphics <ul style="list-style-type: none">8-phase CPU voltage regulation8-phase GPU voltage regulation Configurations based on NVIDIA® GeForce RTX® 2070 SUPER graphics <ul style="list-style-type: none">8-phase CPU voltage regulation10-phase GPU voltage regulation Configurations based on NVIDIA® GeForce RTX® 2080 SUPER graphics <ul style="list-style-type: none">8-phase CPU voltage regulation12-phase GPU voltage regulation

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Display Options	17.3" FHD (1920 x 1080) 144Hz 9ms 300-nits 72% NTSC color gamut + Tobii Eyetracking technology 17.3" FHD (1920 x 1080) 144Hz 9ms 300-nits 72% NTSC color gamut with NVIDIA-GSYNC technology + Tobii Eyetracking technology 17.3" FHD (1920 x 1080) 300Hz 3ms 300-nits 100% sRGB color gamut + Tobii Eyetracking technology 17.3" UHD (3840 x 2160) 60Hz 25ms 500-nits 100% Adobe RGB color gamut + Tobii Eyetracking technology
Additional Display Specifications (all options)	<ul style="list-style-type: none">Wide Viewing Angles on all displays with 85 degree viewing from all directions800:1 contrast ratio on FHD 144Hz1000:1 contrast ratio on FHD 300Hz1500:1 contrast ratio on UHD 60Hz
Audio and Speakers	Stereo Speaker Design
Ports	(2x) Power/DC-in Jack (1x) RJ-45 Killer™ Ethernet E3000 10/100/1000Mbps/2.5Gbps Port (2x) Type-A USB 3.2 Gen 1 Port (1x) Type-A USB 3.2 Gen 1 Port with Powershare Technology (1x) Full size SD 5.1, UHS-II HD312 Media Card Reader (SD, SDHC, SDXC, MMC formats) (1x) Thunderbolt™ 3 Port (USB Type-C™ with support for USB 3.2 Gen 2 10Gbps, 40Gbps Thunderbolt, and DisplayPort 1.2) (1x) Alienware Graphics Amplifier Port (1x) HDMI 2.0b with HDCP 2.2 Output Port (1x) Mini-Display Port 1.4 (certified) Output (1x) Audio Out 1/8" Ports (Compatible with inline mic headset) (1x) Global Headset (1x) Wedge-shaped lock slot (cable and lock sold separately)
External Slots	Wedge-shaped lock slot
Chassis Features	Based on Alienware's Legend industrial design language Engineered with Alienware Cryo-Tech™ Cooling technology Engineered with HyperEfficient Voltage Regulation Constructed with a Magnesium Alloy exterior shell and copper alloy thermal components
Color Options and Paint Detail	Lunar Light with High Endurance Clear Coat Dark Side of the Moon with High Endurance Clear Coat
Keyboard Details	Alienware mSeries per-key AlienFX RGB keyboard with numeric keypad 1.7mm key travel, anti-ghosting and N-key rollover technology
Touchpad Details	Multi-touch gesture premium precision-point glass touchpad with integrated scrolling
Camera Detail	Alienware HD (1280x720 resolution) camera with dual-array integrated microphones
Connectivity Options	Killer™ Ethernet E3000 10/100/1000Mbps/2.5Gbps NIC (Standard) Killer™ Wi-Fi6 AX1650 802.11ax 2x2 Wireless LAN and Bluetooth 5.1 (Standard)
Battery Options	Lithium Ion (90 Wh) Battery with Alienware Battery Defender technology (Standard)
Power Adapter Options	180W + 180W (Standard) 180W + 330W 240W + 330W
Dimensions & Weight	Height (rear): 31.8 mm. (1.25 in.) Height (peak): 44mm (1.7 in.) Height (front): 27.65 mm. (1.089 in.) Depth: 319.14 mm. (12.565 in.) Width: 402.6 mm. (15.85 in.) Lowest weight: 4.1 Kgs. (9.04 Lbs.) Maximum weight: 4.7 Kgs. (10.4 Lbs.)
Software	Alienware Command Center including AlienFX lighting, Game Library with auto-tune game profile functionality, Fusion (and Alienware Adrenalin, Alienware Mobile Connect
Peripheral Ecosystem	Alienware 34 Curved Gaming Monitor – AW3420DW, Alienware Graphics Amplifier, Alienware 7.1 Gaming Headset – AW510H, Alienware Low-Profile RGB Mechanical Gaming Keyboard – AW510K, Alienware RGB Gaming Mouse – AW510M, Alienware 25 Gaming Monitor – AAW2521HF/L

