

ALIENWARE x16 - SPECIFICATIONS



Chassis Details

System Dimensions

Height: 18.57 mm. (0.7311 in.)
Depth: 289.81 mm. (11.41 in.)
Width: 364.74 mm. (14.36 in.)
Weight: 2.72 Kgs. (6 Lbs.)

Exterior Chassis Color and Finish

Lunar Silver

Chassis Features

Based on Alienware's Legend 3 industrial design language
Full Metal Chassis constructed with Anodized Aluminum and Magnesium Alloy*
Dual Torque Element Hinge
Updated 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
Engineered with Alienware Cryo-Tech™ Cooling technology
Includes Element 31 thermal interface material applied to CPU and GPU (on all x16 configs)
Constructed with copper alloy thermal components
Vapor chamber cooling technology (on configs based on NVIDIA GeForce RTX 4080 or 4090)
All configurations are enabled to support Dolby Vision and Dolby Atmos technologies
6-Speaker Spatial Sound

Display Detail

- 16.0" QHD+ (2560 x 1600) 165Hz 3ms, 100% sRGB gamut, ComfortView Plus, NVIDIA G-SYNC + Advanced Optimus
- 16.0" FHD+ (1920 x 1200) 480Hz 3ms, 100% DCI-P3 gamut, ComfortView Plus, NVIDIA G-SYNC + Advanced Optimus
- 16.0" QHD+ (2560 x 1600) 240Hz 3ms, 100% DCI-P3 gamut, ComfortView Plus, NVIDIA G-SYNC + Advanced Optimus

Battery Detail

Lithium Ion (90 Whr) Battery with Alienware Battery Defender technology (Standard)

Integrated Camera Detail

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

AlienFX Lighting Detail

Programmable with up to 16.8 million distinct colors

Keyboard Options

Alienware X Series per-key AlienFX RGB keyboard
1.8mm key travel
Includes N-key rollover and anti-ghosting 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
Multi-touch AlienFX touchpad with integrated scrolling (available on select configs)

Power Adapter Options

240W Small Form Factor GaN FET adapter (Standard)
330W Small Form Factor GaN FET adapter

Processor Options

13th Gen Intel® Core™ i7 13620H (10-Core, 24MB L3 Cache, up to 4.9GHz Max Turbo Frequency)
13th Gen Intel® Core™ i7 13700H (14-Core, 24MB L3 Cache, up to 5.0GHz Max Turbo Frequency)
13th Gen Intel® Core™ i9 13900HK (14-Core, 24MB L3 Cache, up to 5.4GHz Max Turbo Frequency)

Graphics* Options

- NVIDIA® GeForce RTX™ 4050 6GB GDDR6
 - HyperEfficient graphics voltage regulation (9-phase)
 - Dynamic Boost (peak): 25W
 - Maximum Graphics Power: 140W
- NVIDIA® GeForce RTX™ 4060 8GB GDDR6
 - HyperEfficient graphics voltage regulation (9-phase)
 - Dynamic Boost (peak): 25W
 - Maximum Graphics Power: 140W
- NVIDIA® GeForce RTX™ 4070 8GB GDDR6
 - HyperEfficient graphics voltage regulation (9-phase)
 - Dynamic Boost (peak): 25W
 - Maximum Graphics Power: 140W
- NVIDIA® GeForce RTX™ 4080 12GB GDDR6
 - HyperEfficient graphics voltage regulation (12-phase)
 - Dynamic Boost (peak): 25W
 - Maximum Graphics Power: 175W
- NVIDIA® GeForce RTX™ 4090 16GB GDDR6
 - HyperEfficient graphics voltage regulation (12-phase)
 - Dynamic Boost (peak): 25W
 - Maximum Graphics Power: 175W

Memory* Options

16GB LP-DDR5 5200 MT/s (with Intel Core i7-13620H)
16GB LP-DDR5 6000 MT/s (with Intel Core i7-13700H)
32GB LP-DDR5 6000 MT/s (with Intel Core i7-13900HK)

Memory Slots

None - Memory modules are soldered down on the x16

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
4TB PCIe NVMe M.2 SSD

RAID 0 CONFIGURATIONS

512GB RAID 0 (2x 256GB PCIe NVMe M.2 SSD)
1TB RAID 0 (2x 512GB PCIe NVMe M.2 SSD)
2TB RAID 0 (2x 1TB PCIe NVMe M.2 SSD)
4TB RAID 0 (2x 2TB PCIe NVMe M.2 SSD)

Audio, Networking and Wireless

All configurations are Dolby Atmos certified.

Wireless Options

Intel® Killer™ Wi-Fi 6E AX1675 with Bluetooth 5.3 Wireless Card
Intel® Killer™ Wi-Fi 6E AX1690 with Bluetooth 5.3 Wireless Card

External Chassis Connections

- (1x) Global headset jack
- (1x) MicroSD Card Slot
- (1x) Type-C Port (Includes Thunderbolt 4, USB4®, 15W (5V/3A) Power Delivery, and DisplayPort 1.4)
- (1x) Type-C Port (USB 3.2 Gen 2, 15W (3A/5V) Power Delivery and DisplayPort 1.4)
- (1x) HDMI 2.1 Output Port
- (2x) Type-A USB 3.2 Gen 1 Port with PowerShare
- (1x) Mini Display Port 1.4

Software

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

Alienware Command Center

Brand new architecture for 2023 includes redesigned user interface and experience
- Game Library to manage titles from multiple services
- AlienFX supports full RGB values up to 16.8 million colors, key binds and calibration settings on Alienware peripherals
- Power Management pre-sets or manual controls
- Overclocking controls system performance and overclocking profiles

*Based on configurations using NVIDIA GeForce RTX 4090 or 4080 graphics as well as the RTX 4070 with CherryMX ultra low-profile mechanical keyboard.

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