



NVIDIA RTX 4500 Ada Generation

Performance for endless possibilities.



Powering the Next Era of Innovation

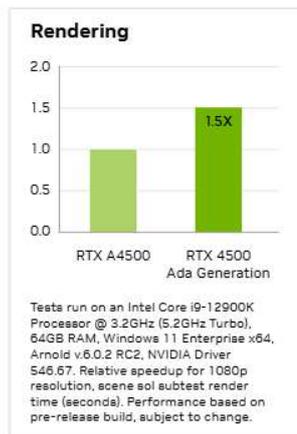
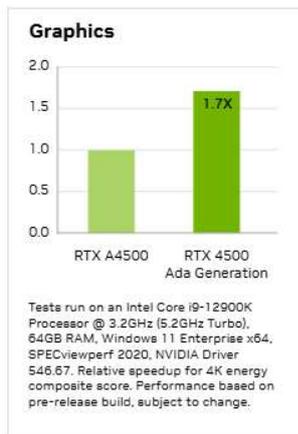
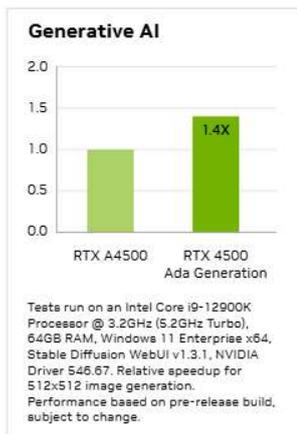
Industries are embracing accelerated computing and AI to tackle powerful dynamics and unlock transformative possibilities. Generative AI is reshaping the way professionals create and innovate across various domains, from design and engineering to entertainment and healthcare.

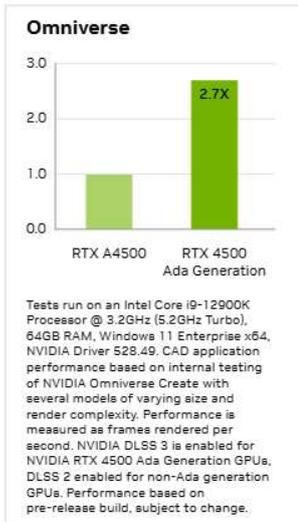
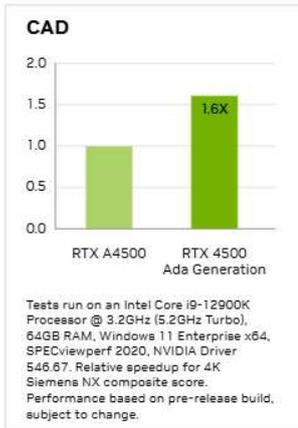
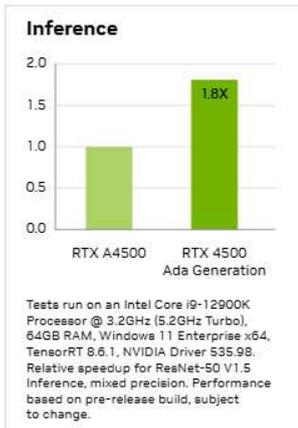
The NVIDIA RTX™ 4500 Ada Generation, built on the ultra-efficient NVIDIA Ada Lovelace architecture, combines 60 third-generation RT Cores, 240 fourth-generation Tensor Cores, and 7,680 CUDA® cores with 24GB of graphics memory to deliver AI-powered graphics and real-time rendering. Discover new ways to create incredible workflow acceleration with RTX 4500.

NVIDIA RTX professional graphics cards are certified for a broad range of professional applications, tested by leading independent software vendors (ISVs) and workstation manufacturers and backed by a global team of support specialists. Get the peace of mind to focus on what matters with the premier visual computing solution for mission-critical business.

Key Features

- > PCIe Gen4
- > Four DisplayPort 1.4a connectors
- > AVI encode and decode support
- > DisplayPort with audio
- > 3D stereo support with stereo connector
- > NVIDIA® GPUDirect® for Video support
- > NVIDIA GPUDirect Remote Direct Memory Access (RDMA) support
- > NVIDIA Quadro® Sync II¹ compatibility
- > NVIDIA RTX Experience™
- > NVIDIA RTX Desktop Manager software
- > NVIDIA RTX IO support
- > HDCP 2.2 support
- > NVIDIA Mosaic² technology





Specifications	
GPU Memory	24GB GDDR6
Memory Interface	192 bit
Memory Bandwidth	432GB/s
Error-Correction Code (ECC)	Yes
NVIDIA Ada Lovelace Architecture-Based CUDA Cores	7,680
NVIDIA Fourth-Generation Tensor Cores	240
NVIDIA Third-Generation RT Cores	60
Single-Precision Performance	39.6 TFLOPS ³
RT Core Performance	91.6 TFLOPS ³
Tensor Performance	634.0 TFLOPS ⁴
System Interface	PCIe 4.0 x16
Power Consumption	Total board power: 210W
Thermal Solution	Active
Form Factor	4.4" H x 10.5" L, dual slot
Display Connectors	4x DisplayPort 1.4a ⁵
Max Simultaneous Displays	4x 4096 x 2160 @ 120Hz 4x 5120 x 2880 @ 60Hz 2x 7680 x 4320 @ 60Hz
Encode/Decode Engines	2x encode, 2x decode (+AV1 encode and decode)
VR Ready	Yes
Graphics APIs	DirectX 12, Shader Model 6.7, OpenGL 4.6 ⁶ , Vulkan 1.3 ⁶
Compute APIs	CUDA 12.2, OpenCL 3.0, DirectCompute
NVIDIA NVLink™	No

Ready to Get Started?

To learn more about NVIDIA RTX 4500, visit:
www.nvidia.com/rtx-4500

¹ Quadro Sync II card sold separately.

² Windows 10 and Linux.

³ Peak rates based on GPU boost clock.

⁴ Effective FP8 teraFLOPS (TFLOPS) using sparsity.

⁵ Display ports are on by default for RTX 4500.

⁶ Product is based on a published Khronos specification and is expected to pass the Khronos conformance testing process when available. Current conformance status can be found at www.khronos.org/conformance

