NVIDIA RTX A4000

SLEEK DESIGN.
POWERFUL PERFORMANCE.



Amplified Performance for Professionals

The NVIDIA RTX™ A4000 is the most powerful single-slot GPU for professionals, delivering real-time ray tracing, AI-accelerated compute, and high-performance graphics to your desktop. Built on the NVIDIA Ampere architecture, the RTX A4000 combines 48 second-generation RT Cores, 192 third-generation Tensor Cores, and 6,144 CUDA® cores with 16 GB of graphics memory with error-correction code (ECC) so you can innovate with uncompromised computing accuracy and reliability. The RTX A4000 also features a power-efficient, single-slot PCIe form factor that fits into a wide range of workstation chassis, so you can do exceptional work without limits.

NVIDIA RTX professional graphics cards are certified with 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 needed to focus on what matters with the premier visual computing solution for mission-critical business.

Features

- PCI Express Gen 4
- Four DisplayPort 1.4a connectors
- AV1 decode support
- DisplayPort with audio
- 3D stereo support with stereo connector
- NVIDIA GPUDirect® for Video support
- NVIDIA Quadro® Sync II[1] compatibility
- NVIDIA RTX Experience™
- NVIDIA RTX Desktop Manager software
- NVIDIA RTX IO support
- HDCP 2.2 support
- NVIDIA Mosaic[2] technology

SPECIFICATIONS

GPU memory	**16 GB GDDR6**
Memory interface	**256-bit**
Memory bandwidth	**448 GB/s**
Error-correcting code (ECC)	**Yes**
NVIDIA Ampere architecture-based CUDA Cores	**6,144**
NVIDIA third-generation Tensor Cores	**192**
NVIDIA second-generation RT Cores	**48**
Single-precision performance	**19.2 TFLOPS[3]**
RT Core performance	**37.4 TFLOPS[3]**
Tensor performance	**153.4 TFLOPS[4]**
System interface	**PCI Express 4.0 x16**
Power consumption	**Total board power: 140 W**
Thermal solution	**Active**
Form factor	**4.4" H x 9.5" L, single slot**
Display connectors	**4x DisplayPort 1.4a**
Max simultaneous displays	**4x 4096 x 2160 @ 120 Hz, 4x 5120 x 2880 @ 60 Hz, 2x 7680 x 4320 @ 60 Hz**
Power connector	**1x 6-pin PCIe**
Encode/decode engines	**1x encode, 1x decode (+AV1 decode)**
VR ready	**Yes**
Graphics APIs	**DirectX 12.07[5], Shader Model 5.17[5], OpenGL 4.68[6], Vulkan 1.2[6]**
Compute APIs	**CUDA, DirectCompute, OpenCL™**

To learn more about the NVIDIA RTX A4000, visit **www.nvidia.com/rtx-a4000/**

1 Quadro Sync II card sold separately. | 2 Windows 10 and Linux. | 3 Peak rates based on GPU Boost Clock. | 4 Effective teraFLOPS (TFLOPS) using the new sparsity feature. | 5 GPU supports DX 12.0 API, hardware feature level 12 + 1. | 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**

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