



NVIDIA RTX A2000

COMPACT DESIGN. UNMATCHED PERFORMANCE.

Accelerate Your Workflow

The NVIDIA RTX™ A2000 brings the power of NVIDIA RTX technology, real-time ray tracing, AI-accelerated compute, and high-performance graphics to more professionals. Built on the NVIDIA Ampere architecture, the VR ready RTX A2000 combines 26 second-generation RT Cores, 104 third-generation Tensor Cores, and 3,328 next-generation CUDA® cores and 6GB of GDDR6 graphics memory with error correction code (ECC) support for error free computing. The RTX A2000 features a power-efficient low profile, dual-slot PCIe form factor that fits into a wide range of small form factor workstations. Design bigger, render faster, and work smarter than ever before with the RTX A2000.

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 Mini DisplayPort 1.4a connectors with latching mechanism
- > AV1 decode support
- > DisplayPort with audio
- > NVIDIA RTX Experience™
- > NVIDIA RTX Desktop Manager software
- > HDCP 2.2 support
- > NVIDIA Mosaic¹ technology

SPECIFICATIONS

GPU memory	6 GB GDDR6
Memory interface	192-bit
Memory bandwidth	288 GB/s
Error-correcting code (ECC)	Yes
NVIDIA Ampere architecture-based CUDA Cores	3,328
NVIDIA third-generation Tensor Cores	104
NVIDIA second-generation RT Cores	26
Single-precision performance	8.0 TFLOPS²
RT Core performance	15.6 TFLOPS²
Tensor performance	63.9 TFLOPS³
System interface	PCI Express 4.0 x16
Power consumption	Total board power: 70 W
Thermal solution	Active
Form factor	2.7" H x 6.6" L, dual slot
Display connectors	4x mDP 1.4a with latching mechanism
Max simultaneous displays	4x 4096 x 2160 @ 120 Hz, 4x 5120 x 2880 @ 60 Hz 2x 7680 x 4320 @ 60 Hz
Encode/decode engines	1x encode, 1x decode (+AV1 decode)
VR ready	Yes
Graphics APIs	DirectX 12.0⁴, Shader Model 5.1⁷, OpenGL 4.6⁵, Vulkan 1.2⁵
Compute APIs	CUDA, DirectCompute, OpenCL™

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