



Compact Design. Unmatched Performance.



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 6 or 12GB of GDDR6 graphics memory with error correction code (ECC) support for error free computing. RTX A2000 GPUs feature a power-efficient low profile, dual-slot PCIe form factor that fits into a wide range of small form factor workstations, and the RTX A2000 12GB doubles memory for even larger models and datasets. Design bigger, render faster, and work smarter than ever before with RTX A2000 GPUs.

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

### PNY Part Numbers

Part Number	EAN Code	SPQ	Box Content (per card)
VCNRTXA2000-12GB-PB	3536403388867	4	Quick Start Guide, 1x mDP to DP
VCNRTXA2000-12GB-SB	3536403387884	5	-
VCNRTXA2000-12GB-BLK	3536403387914	25	-

# 1 Windows 10 and Linux. | 2 Peak rates based on GPU Boost Clock. | 3 Effective teraFLOPS (TFLOPS) using the new sparsity feature. | 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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### **SPECIFICATIONS**

Part Number	VCNRTXA2000-12GB-PB	
EAN code	3536403388867	
GPU memory	12 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 TFLOPS <sup>2</sup>	
RT Core performance	15.6 TFLOPS <sup>2</sup>	
Tensor performance	63.9 TFLOPS <sup>3</sup>	
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 12.074, Shader Model 5.174, OpenGL 4.68 <sup>5</sup> , Vulkan 1.2 <sup>5</sup>	
Compute APIs	CUDA, DirectCompute, OpenCL™	



