

MIGHTY PERFORMANCE. MINIMAL FOOTPRINT.

# NVIDIA RTX™ A1000

PNY®

 NVIDIA



## Small Size, Big Impact

### THE ULTIMATE COMPACT POWER

The NVIDIA RTX™ A1000 is a powerful, low-profile GPU that brings RTX-powered real time ray tracing and AI acceleration to a whole new audience.

Built on the NVIDIA Ampere GPU architecture, it combines 2 304 CUDA® Cores, 72 third-generation Tensor Cores, and 18 second-generation RT Cores, and 8GB of GDDR6 graphics memory.

With the RTX A1000, you can create more compelling visuals, explore new AI-powered workflows, and boost your productivity, all from a small-form-factor solution.

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

- ✓ Second-generation RT Cores
- ✓ Third-generation Tensor Cores
- ✓ PCI Express Gen 4
- ✓ Four Mini DisplayPort 1.4a
- ✓ AV1 decode support
- ✓ DisplayPort with audio
- ✓ NVIDIA RTX Experience™
- ✓ NVIDIA RTX Desktop Manager software
- ✓ NVIDIA RTX IO support
- ✓ HDCP 2.2 support
- ✓ NVIDIA Mosaic<sup>1</sup> technology

PNY® POWER LIMITED



## PNY Power Limited

### OPTIMIZED POWER, MAXIMUM EFFICIENCY

The NVIDIA RTX™ A1000 Power Limited by PNY is preset to a power limit of 35 Watts, while the standard version has a power limit set at 50 Watts.

Whether you're worried about your carbon footprint, looking to take control of your total cost of ownership, or just need to reduce the Total Power Draw of your system, PNY's Power Limited GPU's are an excellent option.

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# NVIDIA RTX™ A1000



PNY Part Numbers			
Part Number	EAN Code	MOQ*	Box Content (per card)
VCNRTXA1000-PL	3536403388836	5	1x LP Bracket
VCNRTXA1000-PLK	3536403387846	45	1x LP Bracket

SPECIFICATIONS	
GPU memory	8GB GDDR6
Memory interface	128-bit
Memory bandwidth	192GB/s
NVIDIA Ampere-based CUDA® Cores	2 304
NVIDIA third-generation Tensor Cores	72
NVIDIA second-generation RT Cores	18
Single-precision performance	6,7 TFLOPS²
RT Core performance	13,2 TFLOPS²
FP16 Tensor performance	53,8 TFLOPS³
Peak INT8 Tensor performance	107,8 TOPS⁴
System interface	PCIe 4,0 x8⁵
Power consumption	50W - <b>limited to 35W</b>
Thermal solution	Active
Form factor	2,7" H x 6,4" L, single slot
Display connectors	4x Mini DisplayPort 1,4a
Max simultaneous displays	- 4x 4096 x 2160 @ 120Hz
	- 4x 5120 x 2880 @ 60Hz
	- 2x 7680 x 4320 @ 30Hz
Encode/decode engines	1x encode, 2x decode (+AV1 decode)
Graphics APIs	DirectX 12, Shader Model 6.6, OpenGL 4.6⁶, Vulkan 1.3⁶
Compute APIs	CUDA 11.6, OpenCL 3.0, DirectCompute

Want to learn more about **PNY Power Limited Cards?**

Visit [pny.com/en-eu/professional/power-limited-gpus](https://pny.com/en-eu/professional/power-limited-gpus)

FOR MORE INFORMATION:

Contact your **PNY representative** or email [PNYPRO@PNY.EU](mailto:PNYPRO@PNY.EU)

PNY Technologies Europe, ZAC du Phare, 9 rue Joseph Cugnot, 33708 Mérignac cedex, France | Tel +33 (0)5 40 240 240 | [WWW.PNY.EU](http://WWW.PNY.EU)

\*MOQ - Multiple Order Quantity

¹ Windows 10 and Linux. | ² Peak rates based on GPU Boost Clock. | ³ Effective FP16 teraFLOPS (TFLOPS) using the sparsity feature. | ⁴ Peak INT8 TOPS with sparsity. | ⁵ RTX A1000 utilizes a full-length PCIe Gen 4 x8 interface. | 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](http://www.khronos.org/conformance)

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