



# NVIDIA RTX A400

Mighty performance. Minimal footprint.

## Power and Performance in a Small Form Factor

The NVIDIA RTX™ A400, built on the NVIDIA Ampere GPU architecture, brings the power of AI and ray tracing acceleration to entry-level workstations, making it accessible to more professionals.

Featuring 768 CUDA® Cores, 24 third-generation Tensor Cores, six second-generation RT Cores, and 4GB of GDDR6 graphics memory, the RTX A400 ensures AI-powered workflows and stunning ray-traced visuals are delivered with unprecedented performance in a space-saving design.

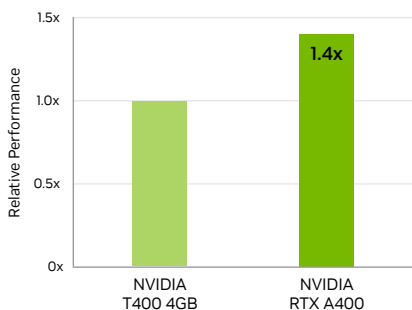
With its compact form factor, the RTX A400 fits effortlessly into any workstation, providing the necessary performance and capabilities for today's professional workflows without compromising on efficiency or workspace. Create expansive workspaces with four physical display connectors for multi-display canvases to efficiently visualize large amounts of data.

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

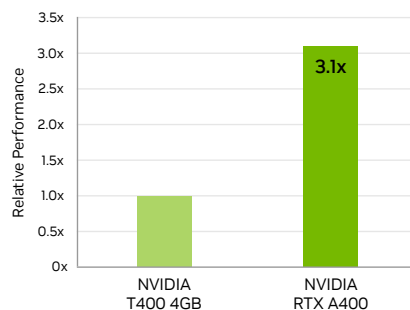
- > Second-generation RT Cores
- > Third-generation Tensor Cores
- > Four Mini DisplayPort 1.4a
- > AV1 decode support
- > DisplayPort with audio
- > NVIDIA RTX Experience™
- > NVIDIA RTX Desktop Manager software
- > NVIDIA RTX IO support
- > HDCP 2.2 support
- > NVIDIA Mosaic<sup>1</sup> technology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

### Graphics



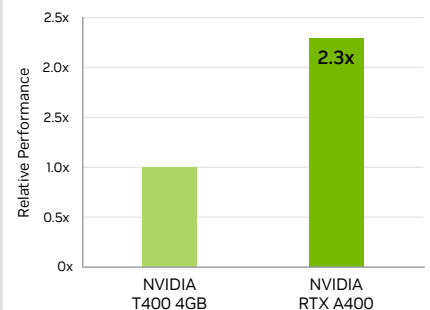
Tests run on an Intel Core i9-12900K Processor @ 3.2GHz (5.2GHz Turbo), 64GB RAM, Windows 11 Enterprise x64, SPECviewperf 2020, NVIDIA Driver 551.79. Relative speedup for 1080p geomean score. Performance based on pre-release build, subject to change.

### Rendering



Tests run on an Intel Core i9-12900K Processor @ 3.2GHz (5.2GHz Turbo), 64GB RAM, Windows 11 Enterprise x64, NVIDIA Driver 551.79. Relative speedup for 1080p resolution Arnold render tests. Performance based on pre-release build, subject to change.

### AI Upscaling



Tests run on an Intel Core i9-12900K Processor @ 3.2GHz (5.2GHz Turbo), 64GB RAM, Windows 11 Enterprise x64, Adobe Photoshop, NVIDIA Driver 551.79. Average relative speedup for Super Resolution. Performance based on pre-release build, subject to change.

## Specifications

<b>GPU memory</b>	4GB GDDR6
<b>Memory interface</b>	64-bit
<b>Memory bandwidth</b>	96GB/s
<b>NVIDIA Ampere architecture-based CUDA Cores</b>	768
<b>NVIDIA third-generation Tensor Cores</b>	24
<b>NVIDIA second-generation RT Cores</b>	6
<b>Single-precision performance</b>	2.7 TFLOPS <sup>2</sup>
<b>RT Core performance</b>	5.4 TFLOPS <sup>2</sup>
<b>FP16 Tensor performance</b>	21.7 TFLOPS <sup>3</sup>
<b>Peak INT8 Tensor performance</b>	43.3 TOPS <sup>4</sup>
<b>System Interface</b>	PCIe 4.0 x8 <sup>5</sup>
<b>Power consumption</b>	Total board power: 50W
<b>Thermal solution</b>	Active
<b>Form factor</b>	2.7" H x 6.4" L, single slot
<b>Display connectors</b>	4x Mini DisplayPort 1.4a
<b>Max simultaneous displays</b>	4x 4096 x 2160 @ 120 Hz 4x 5120 x 2880 @ 60 Hz
<b>Encode/decode engines</b>	1x encode, 1x decode (+AV1 decode)
<b>Graphics APIs</b>	DirectX 12, Shader Model 6.6, OpenGL 4.6 <sup>6</sup> , Vulkan 1.3 <sup>6</sup>
<b>Compute APIs</b>	CUDA 11.6, OpenCL 3.0, DirectCompute

## Ready to Get Started?

To learn more about NVIDIA RTX A400, visit  
[www.nvidia.com/rtx-a400/](http://www.nvidia.com/rtx-a400/)

<sup>1</sup> Windows 10 and Linux. <sup>2</sup> Peak rates based on GPU Boost Clock. <sup>3</sup> Effective FP16 teraFLOPS (TFLOPS) using the sparsity feature. <sup>4</sup> Peak INT8 TOPS with sparsity. <sup>5</sup> RTX A400 utilizes a full-length PCIe Gen 4 x8 interface. <sup>6</sup> 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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