☺ NVIDIA

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[1] technology

> PCI Express Gen 4

Graphics
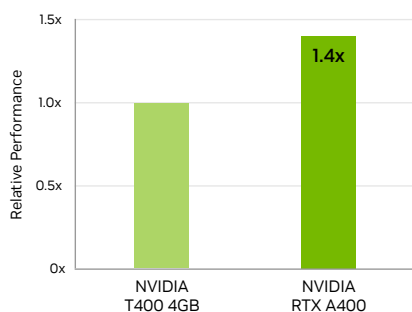
Relative Performance

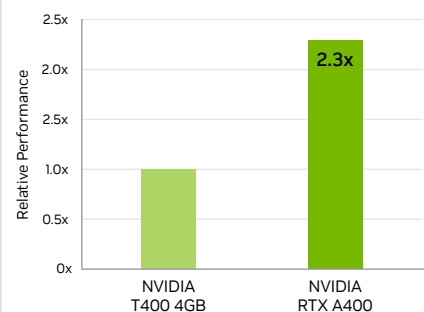| NVIDIA T400 4GB | 1.0x |
| NVIDIA RTX A400 | 1.4x |

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
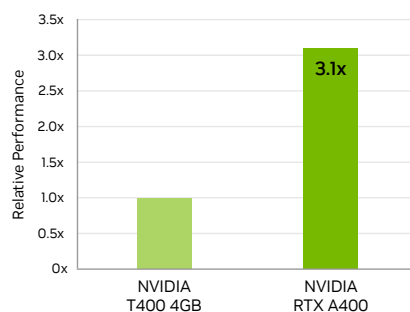
Relative Performance

| NVIDIA T400 4GB | 1.0x |
| NVIDIA RTX A400 | 3.1x |

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

Relative Performance

| NVIDIA T400 4GB | 1.0x |
| NVIDIA RTX A400 | 2.3x |

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

GPU memory	4GB GDDR6
Memory interface	64-bit
Memory bandwidth	96GB/s
NVIDIA Ampere architecture-based CUDA Cores	768
NVIDIA third-generation Tensor Cores	24
NVIDIA second-generation RT Cores	6
Single-precision performance	2.7 TFLOPS[2]
RT Core performance	5.4 TFLOPS[2]
FP16 Tensor performance	21.7 TFLOPS[3]
Peak INT8 Tensor performance	43.3 TOPS[4]
System Interface	PCIe 4.0 x8[5]
Power consumption	Total board power: 50W
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 @ 120 Hz 4x 5120 x 2880 @ 60 Hz
Encode/decode engines	1x encode, 1x decode (+AV1 decode)
Graphics APIs	DirectX 12, Shader Model 6.6, OpenGL 4.6[6], Vulkan 1.3[6]
Compute APIs	CUDA 11.6, OpenCL 3.0, DirectCompute

Ready to Get Started?

To learn more about NVIDIA RTX A400, visit
www.openzeka.com/a400