

PERFORMANCE AMPLIFIED NVIDIA® RTX™ A6000



Real time ray tracing for professionals

The NVIDIA® RTX™ A6000 delivers everything designers, engineers, and artists need to meet today's demands from their desktop. Built on the NVIDIA Ampere architecture, the RTX A6000 combines 84 second-generation RT Cores, 336 third-generation Tensor Cores, and 10,752 CUDA® cores with 48 GB of graphics memory for unprecedented rendering, AI, graphics, and compute performance. Connect two RTX A6000s with NVIDIA NVLink® for 96 GB of combined GPU memory. And access the power of your Quadro workstation from anywhere with remote-access software. Engineer amazing products, design state-of-the-art buildings, drive scientific breakthroughs, and create immersive entertainment with the world's most powerful graphics solution.

Quadro cards are certified with a broad range of sophisticated professional applications, tested by leading workstation manufacturers, and backed by a global team of support specialists. This gives you the peace of mind to focus on doing your best work. Whether you're developing revolutionary products or telling spectacularly vivid visual stories, Quadro gives you the performance to do it brilliantly.

To learn more about the NVIDIA RTX A6000 visit www.pny.eu/quadro

FEATURES

- > Four DisplayPort 1.4 Connectors
- > DisplayPort with Audio
- > VGA Support⁴
- > 3D Stereo Support with Stereo Connector⁴
- > NVIDIA GPUDirect™ Support
- > Quadro Sync II⁵ Compatibility
- > NVIDIA Quadro View® Desktop Management Software
- > HDCP 2.2 Support
- > NVIDIA Mosaic⁶



SPECIFICATIONS

Part Number	VCNRTXA6000-PB
EAN code	3536403379193
GPU Memory	48 GB GDDR6
Memory Interface	384-bit
Memory Bandwidth	696 GB/s
ECC	Yes
NVIDIA CUDA Cores	10752
NVIDIA Tensor Cores	336
NVIDIA RT Cores	84
Single-Precision Performance	TBD TFLOPS
Tensor Performance	TBD TFLOPS
NVIDIA NVLink	Connects 2 Quadro A6000 GPUs¹
NVIDIA NVLink bandwidth	112,5 GB/s (bidirectional)
System Interface	PCI Express 4.0 x 16
Power Consumption	Total board power: 300 W
Power Connector	1x 8-pin CPU
Thermal Solution	Active
Form Factor	111,76 H x 266,7 mm L, Dual Slot, Full Height
Display Connectors	4xDP 1.4
Max Simultaneous Displays	4x 3840 x 2160 @ 120 Hz, 4x 5120x2880 @ 60 Hz, 2x 7680x4320 @ 60 Hz
Encode / Decode Engines	1X Encode, 2X Decode
VR Ready	Yes
Graphics APIs	DirectX 12.0⁷, Shader Model 5.1⁷, OpenGL 4.5⁸, Vulkan 1.0⁸
Compute APIs	CUDA, DirectCompute, OpenCL™

¹ NVIDIA NVLink sold separately | ² Connecting two RTX A6000 cards with NVLink to scale performance and memory capacity to 96 GB is only possible if your application supports NVLink technology. Please contact your application provider to confirm their support for NVLink | ³ Via adapter/connector/bracket | ⁴ Quadro Sync II card sold separately | ⁵ Windows 7, 8, 8.1, 10 and Linux | ⁶ GPU supports DX 12.0 API, Hardware Feature Level 12_1 | ⁷ 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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