

## 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.boston.co.uk/partners/nvidia.aspx](http://www.boston.co.uk/partners/nvidia.aspx)

#### FEATURES

- > Four DisplayPort 1.4 Connectors
- > DisplayPort with Audio
- > VGA Support<sup>4</sup>
- > 3D Stereo Support with Stereo Connector<sup>4</sup>
- > NVIDIA GPUDirect™ Support
- > Quadro Sync II<sup>5</sup> Compatibility
- > NVIDIA Quadro View® Desktop Management Software
- > HDCP 2.2 Support
- > NVIDIA Mosaic<sup>6</sup>



#### SPECIFICATIONS

Part Number	<b>VCNRTXA6000-PB</b>
EAN code	<b>3536403379193</b>
GPU Memory	<b>48 GB GDDR6</b>
Memory Interface	<b>384-bit</b>
Memory Bandwidth	<b>696 GB/s</b>
ECC	<b>Yes</b>
NVIDIA CUDA Cores	<b>10752</b>
NVIDIA Tensor Cores	<b>336</b>
NVIDIA RT Cores	<b>84</b>
Single-Precision Performance	<b>TBD TFLOPS</b>
Tensor Performance	<b>TBD TFLOPS</b>
NVIDIA NVLink	<b>Connects 2 Quadro A6000 GPUs<sup>1</sup></b>
NVIDIA NVLink bandwidth	<b>112,5 GB/s (bidirectional)</b>
System Interface	<b>PCI Express 4.0 x 16</b>
Power Consumption	<b>Total board power: 300 W</b>
Power Connector	<b>1x 8-pin CPU</b>
Thermal Solution	<b>Active</b>
Form Factor	<b>111,76 H x 266,7 mm L, Dual Slot, Full Height</b>
Display Connectors	<b>4xDP 1.4</b>
Max Simultaneous Displays	<b>4x 3840 x 2160 @ 120 Hz, 4x 5120x2880 @ 60 Hz, 2x 7680x4320 @ 60 Hz</b>
Encode / Decode Engines	<b>1X Encode, 2X Decode</b>
VR Ready	<b>Yes</b>
Graphics APIs	<b>DirectX 12.0<sup>7</sup>, Shader Model 5.1<sup>7</sup>, OpenGL 4.5<sup>8</sup>, Vulkan 1.0<sup>8</sup></b>
Compute APIs	<b>CUDA, DirectCompute, OpenCL™</b>

<sup>1</sup> NVIDIA NVLink sold separately | <sup>2</sup> 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 | <sup>4</sup> Via adapter/connector/bracket | <sup>5</sup> Quadro Sync II card sold separately | <sup>6</sup> Windows 7, 8, 8.1, 10 and Linux | <sup>7</sup> GPU supports DX 12.0 API, Hardware Feature Level 12\_1 | <sup>8</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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