

REAL TIME MEANS REAL CHANGE NVIDIA QUADRO RTX 4000



# Experience Real Time Ray Tracing in a Single Slot Form Factor.

Meet the challenge of today's demanding professional workflows with NVIDIA® Quadro RTX™ 4000, powered by NVIDIA Turing™ architecture and the NVIDIA RTX™ platform. The NVIDIA Quadro RTX 4000 delivers GPU accelerated ray tracing, deep learning, and advanced shading in an accessible single slot form factor. It gives designers the power to accelerate their creative efforts with faster time to insight and faster time to solution. Equipped with 2304 CUDA® cores, 288 Tensor Cores, 36 RT cores and 8 GB GDDR6 memory, the Quadro RTX 4000 is designed to manage the most intensive AEC, DCC, AI, VR and graphics workloads. And with the industry's first implementation of the all-new VirtualLink<sup>1</sup>, Quadro RTX 4000 provides simplified connectivity to next-generation, high-resolution VR head-mounted displays, letting designers work in the most compelling virtual environments.

Quadro is certified with a broad range of sophisticated professional applications, tested by leading workstation manufacturers, and backed by a global team of NVIDIA support specialists so you can focus on doing your best work. Whether you're developing revolutionary products or telling spectacularly vivid visual stories, do it brilliantly with Quadro performance.

### **FEATURES**

- > Three DisplayPort 1.4 Connectors
- > VirtualLink Connector<sup>1</sup>
- > DisplayPort with Audio
- > VGA Support<sup>2</sup>
- > 3D Stereo Support with Stereo Connector<sup>2</sup>
- > NVIDIA GPUDirect™ Support
- > Quadro Sync II<sup>3</sup> Compatibility
- » NVIDIA nView® Desktop Management Software
- > HDCP 2.2 Support
- > NVIDIA Mosaic<sup>4</sup>

## PACKAGE CONTENTS

- > NVIDIA Quadro RTX 4000
- > Quadro RTX Quick Start Guide
- > Quadro Support Guide
- > 1 DisplayPort to DVI Adapter
- > 1 DisplayPort to HDMI Adapter
- > 1 USB-C to DisplayPort Adapter

# WARRANTY AND SUPPORT

- > 3-Year Warranty
- > Pre- and Post-Sales Technical Support
- > Dedicated Field Application Engineers
- > Direct Tech Support Hot Lines



#### PNY PART NUMBER VCQRTX4000-PB

| SPECIFICATIONS                  |  |
|---------------------------------|--|
| GPU Memory                      | 8 GB GDDR6   |
| Memory Interface                | 256-bit  |
| Memory Bandwidth                | Up to 416 GB/s   |
| NVIDIA CUDA® Cores              | 2304   |
| NVIDIA Tensor Cores             | 288  |
| NVIDIA RT Cores                 | 36   |
| Single-Precision<br>Performance | 7.1 TFLOPS   |
| Tensor Performance              | 57.0 TFLOPS  |
| System Interface                | PCI Express 3.0 x16  |
| Power Consumption               | Total board power: 160 W<br>Total graphics power: 125 W  |
| Thermal Solution                | Active   |
| Form Factor                     | 4.4" H x 9.5" L, Single Slot   |
| Max Simultaneous<br>Displays    | 4x 3840x2160 @ 120 Hz<br>4x 5120x2880 @ 60 Hz<br>4x 7680x4320 @ 60 Hz  |
| VR Ready                        | Yes  |
| Graphics APIs                   | Shader Model 5.1 <sup>5</sup> ,<br>OpenGL 4.5 <sup>6</sup> ,<br>DirectX 12.0 <sup>5</sup> ,<br>Vulkan 1.0 <sup>6</sup> |
| Compute APIs                    | CUDA, DirectCompute,<br>OpenCL™  |

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For more information visit: www.pny.eu/quadro

¹ In preparation for the emerging VirtualLink standard, Turing GPUs have implemented hardware support according to the "VirtualLink Advance Overview". To learn more about VirtualLink, please see www.virtuallink.org | ² Via adapter/connector/bracket | ³ Quadro Sync II card sold separately | ⁴ Windows 7, 8, 8.1, 10 and Linux | ⁵ GPU supports DX 12.0 API, Hardware Feature Level 12.1 ⁴ 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