

## THE MOST ADVANCED SINGLE-SLOT PROFESSIONAL GRAPHICS SOLUTION NVIDIA QUADRO RTX 4000



### REAL TIME RAY TRACING FOR PROFESSIONALS

Quadro RTX 4000 combines the NVIDIA Turing GPU architecture with the latest memory and display technologies, to deliver the best performance and features in a single-slot PCI-e form factor. Enjoy greater fluidity with photorealistic rendering, experience faster performance with AI-enabled applications and create detailed, lifelike VR experiences more cost-effectively and across a broader range of workstation chassis configurations.

Quadro RTX 4000 features 36 RT cores to accelerate ray tracing, 288 Tensor cores to accelerate AI and 8GB GDDR6 memory to accommodate large datasets. It is equipped with three DisplayPort 1.4 connectors with HDR support and features the latest VirtualLink connector to simplify connectivity to next-gen VR HMDs. Additionally, in conjunction with Quadro Sync II you can deploy massive digital signage solutions with higher density and at lower cost.

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.

<sup>1</sup> NVIDIA NVLink sold separately | <sup>2</sup> Connecting two RTX 4000 cards with NVLink to scale performance and memory capacity to 32 GB is only possible if your application supports NVLink technology. Please contact your application provider to confirm their support for NVLink | <sup>3</sup> 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](http://www.virtuallink.org) | <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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### FEATURES

- > Three DisplayPort 1.4 Connectors
- > VirtualLink Connector<sup>3</sup>
- > 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 nView® Desktop Management Software
- > HDCP 2.2 Support
- > NVIDIA Mosaic<sup>6</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
- > 1 Auxiliary Power Cable (8-pin to dual 6-pin 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  
**EAN NUMBER** 3536403368029

### SPECIFICATIONS

GPU Memory	8 GB GDDR6
Memory Interface	256-bit
Memory Bandwidth	Up to 416 GB/s
ECC	Yes
NVIDIA CUDA Cores	2304
NVIDIA Tensor Cores	88
NVIDIA RT Cores	36
Single-Precision Performance	7.1 TFLOPS
Tensor Performance	57 TFLOPS
System Interface	PCI Express 3.0 x 16
Power Consumption	Total board power: 160 W Total graphics power: 125 W
Thermal Solution	Active
Form Factor	111,76 mm H x 266,7 mm L, Single Slot, Full Height
Display Connectors	3xDP 1.4, 1x USB-C
Max Simultaneous Displays	4x 4096x2160 @ 120 Hz, 4x 5120x2880 @ 60 Hz, 2x 7680x4320 @ 60 Hz
Encode / Decode Engines	1X Encode, 1X Decode
VR Ready	Yes
Graphics APIs	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>
Compute APIs	CUDA, DirectCompute, OpenCL™

**PNY**

PNY Technologies Europe  
9 Rue Joseph Cugnot - 33708 Mérignac Cedex | France  
T +33 (0)5 56 13 75 75 | F +33 (0)5 56 13 75 77

For more information visit: [www.pny.eu](http://www.pny.eu)