



THE WORLD'S FIRST RAY TRACING GPU NVIDIA QUADRO RTX 4000



REAL TIME RAY TRACING FOR PROFESSIONALS

NVIDIA® 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 VirtualLink¹ 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.

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 | ⁶ 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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FEATURES

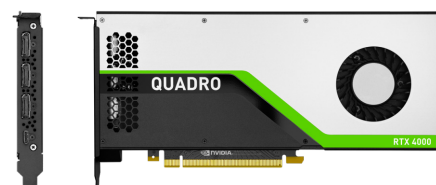
- > Three DisplayPort 1.4 Connectors
- > VirtualLink Connector¹
- > DisplayPort with Audio
- > 3D Stereo Support with Stereo Connector²
- > NVIDIA GPUDirect™ Support
- > Quadro Sync II³ Compatibility
- > NVIDIA nView® Desktop Management Software
- > HDCP 2.2 Support
- > NVIDIA Mosaic⁴

PACKAGE CONTENTS

- > NVIDIA Quadro RTX 4000
- > Quadro RTX Quick Start Guide
- > Quadro Support Guide
- > USB Type-C to DP adapter
- > 1 DisplayPort to DVI Adapter
- > 1 DisplayPort to HDMI 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 CODE 3536403366926

SPECIFICATIONS

GPU Memory	8 GB GDDR6
Memory Interface	384-bit
Memory Bandwidth	Up to 416 GB/s
ECC	Yes
NVIDIA CUDA Cores	2,034
NVIDIA Tensor Cores	288
NVIDIA RT Cores	36
Single-Precision Performance	16.3 TFLOPS
Tensor Performance	130.5 TFLOPS
System Interface	PCI Express 3.0 x 16
Power Consumption	Total board power: 160 W Total graphics power: 125W
Thermal Solution	Active
Form Factor	111.8 mm H x 266.7 mm L, Single Slot, Full Height
Display Connectors	4x DP 1.4, 1x VirtualLink
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 ⁵ , Shader Model 5.1 ⁵ , OpenGL 4.5 ⁶ , Vulkan 1.0 ⁶
Compute APIs	CUDA, DirectCompute, OpenCL™



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For more information visit: www.pnyeu/quadro