

THE WORLD'S FIRST RAY TRACING GPU **NVIDIA QUADRO RTX 5000** 



## **REAL TIME RAY TRACING** FOR PROFESSIONALS

Shatter the boundaries of what's possible with the NVIDIA® Quadro RTX™ 5000, powered by NVIDIA Turing GPU to bring real-time ray tracing and accelerated AI to next-generation workflows. Creative and technical professionals can supercharge demanding design and visualization workloads and make more informed decisions faster than ever before. Equipped with 3072 CUDA cores, 384 Tensor cores, 48 RT Cores and 16GB GDDR6 memory, Quadro RTX 5000 can render complex models and scenes with physically accurate shadows, reflections, and refractions to empower users with instant insight. Support for NVIDIA NVLink<sup>1</sup> enables applications to scale memory and performance with multi-GPU configurations<sup>2</sup>. And with the industry's first implementation of the new VirtualLink®3, Quadro RTX 5000 provides connectivity to the next-generation of high-resolution VR head-mounted displays to let designers view their work in the most compelling virtual environments possible.

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 NVIDIA NVLink sold separately | ² Connecting two RTX 5000 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 | ³ 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 | ⁴ Via adapter/connector/bracket | ⁵ Quadro Sync II card sold separately | ⁵ Windows 7, 8, 8, 1, 10 and Linux | ² GPU supports DX 12.0 API, Hardware Feature Level 12\_1 | ⁵ 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 found at www.khronos.org/conformance
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## **FEATURES**

- > Four DisplayPort 1.4 Connectors
- > VirtualLink Connector<sup>3</sup>
- > DisplayPort with Audio
- > VGA Support<sup>4</sup>
- > 3D Stereo Support with Stereo Connector4
- > NVIDIA GPUDirect™ Support
- > Quadro Sync II<sup>5</sup> Compatibility
- NVIDIA nView® Desktop Management Software
- > HDCP 2.2 Support
- > NVIDIA Mosaic

## **PACKAGE CONTENTS**

- > NVIDIA Quadro RTX 5000
- > Quadro RTX Quick Start Guide
- > Quadro Support Guide
- > 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



VCQRTX5000-PB
16 GB GDDR6
256-bit
Up to 448 GB/s
Yes
3,072
384
48
11.2 TFLOPS
89.2 TFLOPS
Connects 2 Quadro RTX 5000 GPUs <sup>1</sup>
50 GB/s (bidirectional)
PCI Express 3.0 x 16
Total board power: 265 W Total graphics power: 230 W
Active
4.4" H x 10.5" L, Dual Slot, Full Height
4xDP 1.4, 1x USB-C
4x 4096x2160 @ 120 Hz, 4x 5120x2880 @ 60 Hz, 2x 7680x4320 @ 60 Hz
1X Encode, 2X Decode
Yes
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>
CUDA, DirectCompute, OpenCL™



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