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[1] enables applications to scale memory and performance with multi-GPU configurations[2]. 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.

FEATURES
> Four DisplayPort 1.4 Connectors
> VirtualLink Connector[3]
> DisplayPort with Audio
> VGA Support[4]
> 3D Stereo Support with Stereo Connector[4]
> NVIDIA GPUDirect™ Support
> Quadro Sync II[5] Compatibility
> NVIDIA nView® Desktop Management Software
> HDCP 2.2 Support
> NVIDIA Mosaic[6]

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

PNY PART NUMBER	VCQRTX5000-PB

SPECIFICATIONS

GPU Memory	**16 GB GDDR6**
Memory Interface	**256-bit**
Memory Bandwidth	**Up to 448 GB/s**
ECC	**Yes**
NVIDIA CUDA Cores	**3,072**
NVIDIA Tensor Cores	**384**
NVIDIA RT Cores	**48**
Single-Precision Performance	**11.2 TFLOPS**
Tensor Performance	**89.2 TFLOPS**
NVIDIA NVLink	**Connects 2 Quadro RTX 5000 GPUs[1]**
NVIDIA NVLink bandwidth	**50 GB/s (bidirectional)**
System Interface	**PCI Express 3.0 x 16**
Power Consumption	**Total board power: 265 W Total graphics power: 230 W**
Thermal Solution	**Active**
Form Factor	**4.4" H x 10.5" L, Dual Slot, Full Height**
Display Connectors	**4xDP 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, 2X Decode**
VR Ready	**Yes**
Graphics APIs	**DirectX 12.0[7], Shader Model 5.1[7], OpenGL 4.5[8], Vulkan 1.0[8]**
Compute APIs	**CUDA, DirectCompute, OpenCL™**

NVIDIA QUADRO AUTHORIZED PARTNER

PNY®

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