Real-time ray tracing for professionals

Experience unbeatable performance, power, and memory with the NVIDIA® Quadro RTX™ 8000, the world’s most powerful graphics card for professional workflows. The Quadro RTX 8000 is powered by the NVIDIA Turing™ architecture and NVIDIA RTX™ platform to deliver the latest hardware-accelerated ray tracing, deep learning, and advanced shading to professionals. Equipped with 4608 NVIDIA CUDA® cores, 576 Tensor cores, and 72 RT Cores, the Quadro RTX 8000 can render complex models and scenes with physically accurate shadows, reflections, and refractions to empower users with instant insight. Support for NVIDIA NVLink™ lets applications scale performance, providing 96 GB of GDDR6 memory with multi-GPU configurations. And with the industry’s first implementation of the new VirtualLink® port, the Quadro RTX 8000 provides simple 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
- DisplayPort with Audio
- VGA Support
- 3D Stereo Support with Stereo Connectors
- NVIDIA GPU Direct™ Support
- Quadro Sync II® Compatibility
- NVIDIA nView® Desktop Management Software
- HDCP 2.2 Support
- NVIDIA Mosaic

PACKAGE CONTENTS

- NVIDIA Quadro RTX 8000
- Quadro RTX Quick Start Guide
- Quadro Support Guide
- 1 DisplayPort to DVI Adapter (8-pin to dual 6-pin 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

SPECIFICATIONS

- GPU Memory: 48 GB GDDR6
- Memory Interface: 384-bit
- Memory Bandwidth: 672 GB/s
- ECC: Yes
- NVIDIA CUDA Cores: 4608
- NVIDIA Tensor Cores: 576
- NVIDIA RT Cores: 72
- Single-Precision Performance: 16.3 TFLOPS
- Tensor Performance: 130.5 TFLOPS
- NVIDIA NVLink Connects 2 Quadro RTX 8000 GPUs
- NVIDIA NVLink bandwidth: 100 GB/s (bidirectional)
- System Interface: PCI Express 3.0 x 16
- Power Consumption: Total board power: 295 W, Total graphics power: 260 W
- Thermal Solution: Active
- Form Factor: 4.4" H x 10.5” L, Dual Slot, Full Height
- Display Connectors: 4xDP 1.4, VirtualLink (1)
- Max Simultaneous Displays: 4x 3840 x 2160 @ 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®, Shader Model 5.1®, OpenGL 4.3®, Vulkan 1.0®
- Compute APIs: CUDA, DirectCompute, OpenCL®