NVIDIA QUADRO RTX 8000
THE POWER OF RTX IN THE DATA CENTER

QUADRO POWERED SERVERS

Bring the power of RTX to the data center with the NVIDIA Quadro RTX™ 8000, built on the NVIDIA Turing™ architecture and the NVIDIA RTX™ platform for powerful server-based visual computing solutions. Equipped with 4,608 CUDA® cores, 576 Tensor Cores, 72 RT Cores, and 48 gigabytes (GB) of high-performance graphics memory, the NVIDIA Quadro RTX 8000 delivers the best performance and the largest graphics memory for the most demanding visual computing tasks.Accelerate multiple data center workloads including rendering, data science, virtual workstation, simulation, and augmented or virtual reality over 5G networks. Professionals can even serve multiple powerful virtual workstations with NVIDIA Quadro Virtual Data Center Workstations (Quadro vDWS) software. Support for NVIDIA® NVLink™[1] lets you scale performance, providing up to 96 GB[2] of combined GPU memory for the largest workloads.[2]

The RTX 8000 is optimized for reliability in enterprise data centers and built for 24/7 server environments. It features a passive thermal solution to fit into a variety of servers. Tackle the most graphics, compute, and GPU memory intensive mixed workloads, such as batch rendering, data science, simulation, and scientific visualization, or provision powerful virtual workstations with Quadro Virtual Data Center Workstation (Quadro vDWS) software, all powered by NVIDIA RTX.

To learn more about the NVIDIA Quadro RTX 8000, visit
https://www.nvidia.com/en-us/design-visualization/quadro-data-center/

SPECIFICATIONS

GPU memory	**48 GB GDDR6**
Memory interface	**384-bit**
Memory Bandwidth	**Up to 624 GB/s**
Error-correcting code (ECC)	**Yes**
NVIDIA CUDA Cores	**4,608**
NVIDIA Tensor Cores	**576**
NVIDIA RT Cores	**72**
Single-Precision Performance	**14.9 TFLOPS**
Tensor Performance	**119.4 TFLOPS**
NVIDIA NVLink	**Yes**
NVIDIA NVLink bandwidth	**100 GB/s**
System Interface	**PCI Express 3.0 x 16**
Power Consumption	**250 W**
Thermal Solution	**Passive**
Form Factor	**4.4" H x 10.5" L dual slot**
Encode/decode engines	**1x encode, 1x decode**
Display connectors	**None[3]**
NVIDIA Driver Requirement	**R440 U2 and later**
Graphics APIs	**Shader Model 5.1, OpenGL 4.5, DirectX 12**
Compute APIs	**CUDA, DirectCompute, OpenCL™, OpenACC®**

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For more information visit: **www.pny.eu**

[1] NVIDIA NVLink sold separately.

[2] Connecting two RTX 8000 cards with NVLink to scale performance and memory capacity to 96 GB is only possible if your application supports NVLink technology. Please contact your application provider to confirm their support for NVLink.

[3] An NVIDIA vGPU license is required for graphics display support, including Windows WDDM.