



NVIDIA QUADRO RTX 6000 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™ 6000, 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 24 gigabytes (GB) of high-performance graphics memory, the NVIDIA Quadro RTX 6000 delivers incredible performance for demanding server-based 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. Connect two RTX 6000s with NVIDIA® NVLink™¹ to scale up to 48 GB² of combined GPU memory and performance for even larger workloads.

The RTX 6000 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 graphics-intensive mixed workloads such as batch rendering, virtualization, data science, simulation, and scientific visualization, all powered by NVIDIA RTX.

To learn more about the NVIDIA Quadro RTX 6000, visit <https://www.pny.com/nvidia-quadro-rtx-6000-passive>



SPECIFICATIONS | PNY PN: VCQRTX6000P-KIT

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|------------------------------|--|
| GPU memory | 24 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 (bidirectional) |
| 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® |

NVIDIA QUADRO
AUTHORIZED PARTNER

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¹ NVIDIA NVLink sold separately.

² Connecting two RTX 6000 cards with NVLink to scale performance and memory capacity to 48 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.