

NVIDIA Quadro RTX 8000 on AceCloud

The World's First Ray Tracing GPU



The NVIDIA Quadro RTX™ 8000 delivers **real-time ray tracing, deep learning, and advanced shading capabilities** for professionals working on the most demanding graphics and compute workflows. Powered by the **NVIDIA Turing™ architecture** and NVIDIA RTX™ platform, the RTX 8000 brings **unmatched performance and memory capacity** to design, visualization, and simulation tasks.

Equipped with **4,608 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 empowering designers and engineers with **real-time insight**.

With **48 GB of GDDR6 memory** (expandable via NVIDIA NVLink™), the RTX 8000 supports massive datasets and multi-GPU scalability. It also introduces the industry's first **VirtualLink™ port**, enabling next-gen VR head-mounted displays for design visualization at the highest fidelity.

Features at a Glance

- **4x DisplayPort 1.4 connectors**
- **VirtualLink™ support** for VR connectivity
- **48 GB GDDR6 with ECC memory**
- **NVIDIA NVLink™ scalability** for multi-GPU configs
- **3D Stereo support with Stereo Connector**
- **NVIDIA GPU Direct™ Support**
- **Quadro Sync II compatibility**
- **NVIDIA Mosaic™ & HDCP 2.2 support**

SYSTEM SPECIFICATIONS

GPU Memory	48 GB GDDR6
Memory Interface	384-bit
Memory Bandwidth	672 GB/s
ECC	Yes
CUDA Cores	4,608
Tensor Cores	576
RT Cores	72
Single-Precision Performance	16.3 TFLOPS
Tensor Performance	130.5 TFLOPS
NVIDIA NVLink	Connects 2 Quadro RTX 8000 GPUs
NVLink Bandwidth	100 GB/s (bidirectional)
System Interface	PCI Express 3.0 x16
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	4x DisplayPort 1.4, 1x VirtualLink
Max Simultaneous Displays	4x 3840x2160 @ 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 4.6, Vulkan 1.1
Compute APIs	CUDA, DirectCompute, OpenCL

Why Choose Quadro RTX 8000 on AceCloud?

Photorealistic Design Visualization

Physically accurate rendering of complex models in real time.

Deep Learning & AI Acceleration

Tensor Cores accelerate training and inference for AI-driven applications.

VR-Ready Workflows

Built-in VirtualLink support to power the next generation of high-resolution VR experiences.

Enterprise-Grade Scalability

Expand memory and performance with NVLink for multi-GPU setups.

NVIDIA RTX 8000 GPUs now on AceCloud!

- ✓ Real-time ray tracing & visualization
- ✓ 48 GB memory for massive design workloads
- ✓ VR-ready with VirtualLink support
- ✓ 99.99% uptime SLA

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