Technical Specifications	
GPU memory	48GB GDDR6
Memory interface	384-bit
Memory bandwidth	960 GB/s
Error correction code (ECC)	Yes
NVIDIA Ada Lovelace architecture-based CUDA Cores	18,176
NVIDIA fourth-generation Tensor Cores	568
NVIDIA third-generation RT Cores	142
Single-precision performance	91.1 TFLOPS[3]
RT Core performance	210.6 TFLOPS[3]
Tensor performance	1457.0 TFLOPS[4]
System interface	PCIe 4.0 x16
Power consumption	Total board power: 300 W
Thermal solution	Active
Form factor	4.4” H x 10.5” L, dual slot, full height
Display connectors	4x DisplayPort 1.4a[5]
Max simultaneous displays	> 4x 4096 x 2160 @ 120 Hz > 4x 5120 x 2880 @ 60 Hz > 2x 7680 x 4320 @ 60 Hz
Power connector	1x PCIe CEM5 16-pin
Encode/decode engines	3x encode, 3x decode (+AV1 encode and decode)
VR ready	Yes
vGPU software support[5]	> NVIDIA vPC/vApps > NVIDIA RTX Virtual Workstation
vGPU profiles supported	See the **Virtual GPU Licensing Guide**
Graphics APIs	DirectX 12, Shader Model 6.6, OpenGL 4.6[6], Vulkan 1.3[6]
Compute APIs	CUDA 11.6, OpenCL 3.0, DirectCompute
NVIDIA NVLink®	No

Ready to Get Started?

To learn more RTX 6000, visit **www.nvidia.com/rtx-6000**

1 Quadro Sync II card sold separately. I 2 Windows 10 and Linux. I 3 Peak rates based on GPU Boost Clock. I 4 Effective FP8 teraFLOPS (TFLOPS) using the new sparsity feature. I 5 Display ports are on by default for RTX 6000. Display ports are not active when using vGPU software. I 6 Product is based on a published Khronos specification and is expected to pass the Khronos conformance testing process when available. Current conformance status can be found at www.khronos.org/conformance

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