

<b>NVIDIA Quadro GPUs</b>	<b>RTX8000 NEW!</b>	<b>RTX6000 NEW!</b>	<b>P6000</b>	<b>RTX5000 NEW!</b>	<b>P5000</b>	<b>RTX4000 NEW!</b>	<b>P4000</b>
Estimated Street Price (at launch)	\$5,500	\$4,000	\$5,200	\$2,300	\$2,500	\$2,500	\$799
SPECIFICATIONS							
Architecture	Turing	Turing	Pascal	Turing	Pascal	Turing	Pascal
GPU Memory	48 GB (GDDR6)	24 GB (GDDR6)	24GB (GDDR5X)	16 GB (GDDR6)	16GB (GDDR5X)	8GB (GDDR6)	8GB GDDR5)
Memory Interface	384-bit	384-bit	384-bit	256-bit	256-bit	256-bit	256-bit
Memory Bandwidth	672 GB/s	Up to 672 GB/s	Up to 432 GB/s	Up to 448 GB/s	Up to 288 GB/s	Up to 416 GB/s	Up to 243 GB/s
NVIDIA CUDA Cores	4608	4608	3840	3072	2560	2304	1792
NVIDIA Tensor Cores	576	576	N/A	384	N/A	288	N/A
NVIDIA RT Cores	72	72	N/A	48	N/A	36	N/A
Single-Precision Performance (FP32 TFLOPS)	16.3	16.3	12	11.2	8.9	7.1	5.3
Tensor Performance (Deep Learning TFLOPS)	130.5	130.5	N/A	89.2	N/A	57.0	N/A
Ray Tracing Performance (Gigarays/second)	10.0	10.0	N/A	8.0	N/A	6.0	0.5
System Interface	PCIe 3.0 x16	PCIe 3.0 x16	PCIe 3.0 x16	PCIe 3.0 x16	PCIe 3.0 x16	PCIe 3.0 x16	PCIe 3.0 x16
Power Consumption (total board power)	295-watts	295-watts	250-watts	265-watts	180-watts	160-watts	105-watts
Extra power required	Yes (14-pins)	Yes (14-pins)	Yes	Yes (14-pins)	Yes (8-pins)	Yes (8-pins)	Yes (6-pins)
Form factor (HxW)	4.4x10.5"	4.4x10.5"	4.4x10.5"	4.4x10.5"	4.4x10.5"	4.4x9.5"	4.4x9.5"
Slots used	2	2	2	2	2	1	1
Maximum Simultaneous Displays	4x 4096x2160 @ 120Hz	4x 4096x2160 @ 120Hz	4x 4096x2160 @ 120Hz	4x 4096x2160 @ 120Hz	4x 4096x2160 @ 120Hz	4x 3840x2160 @ 120Hz	4x 4096x2160 @ 120Hz
	4x 5120x2880 @ 60Hz	4x 5120x2880 @ 60Hz	4x 5120x2880 @ 60Hz	4x 5120x2880 @ 60Hz	4x 5120x2880 @ 60Hz	4x 5120x2880 @ 60Hz	4x 5120x2880 @ 60Hz
	2x 7680x4320 @ 60Hz	2x 7680x4320 @ 60Hz	2x 7680x4320 @ 30Hz	2x 7680x4320 @ 60Hz	2x 7680x4320 @ 30Hz	2x 7680x4320 @ 60Hz	
Max DVI-D DL Resolution	N/A	N/A	2560x1600 @ 60Hz	N/A	2560x1600 @ 60Hz	N/A	N/A
VR Ready	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Number of Display Port Connectors	4	4	4.0	4	4	3	4
Virtual Link Connector	Yes	Yes	No	Yes	No	Yes	No
Number of DVI Dual Link Outputs	0	0	1	0	1	0	0
Stereo 3D Support with Stereo Connector	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multiple GPUs with NVLink	Yes	Yes	No	Yes	No	N	No
Multiple monitors/video walls using Quadro Sync	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Graphics APIs	DirectX 12.0	DirectX 12.0	DirectX 12.0	DirectX 12.0	DirectX 12.0	DirectX 12.0	DirectX 12.0
	Shader Model 5.1	Shader Model 5.1	Shader Model 5.1	Shader Model 5.1	Shader Model 5.1	Shader Model 5.1	Shader Model 5.1
	OpenGL 4.6	OpenGL 4.6	OpenGL 4.5	OpenGL 4.5	OpenGL 4.5	OpenGL 4.5	OpenGL 4.5
	Vulkan 1.1	Vulkan 1.1	Vulkan 1.0	Vulkan 1.0	Vulkan 1.0	Vulkan 1.0	Vulkan 1.0
Compute APIs	CUDA	CUDA	CUDA.0	CUDA	CUDA	CUDA	CUDA
	DirectCompute	DirectCompute	DirectCompute	DirectCompute	DirectCompute	DirectCompute	DirectCompute
	OpenCL	OpenCL	OpenCL.0	OpenCL	OpenCL	OpenCL	OpenCL