NVIDIA PROFESSIONAL GRAPHICS SOLUTIONS

NVIDIA® Quadro® GPUs power the world's most advanced mobile workstations and new form-factor devices to meet the visual computing needs of professionals across a range of industries. The latest generation of NVIDIA GPUs deliver desktop-level performance, large memory capacity, and advanced features in thin and light form factors that are a delight to use in the office and on the road. Whether you work with complex 3D CAD models, create photorealistic rendering, or use immersive virtual reality to experience your creations, you can tackle all of your next-gen workflows with ease—and without borders. With NVIDIA Quadro GPUs, find the ultimate creative freedom with the most powerful visual computing capabilities anywhere you want to work.

	GPU SPECIFICATIONS											PERFORMANCE	VIRTUAL REALITY (VR)		OPTIONS				
	NVIDIA CUDA Processing Cores[1]	GPU Memory	Memory Bandwidth	Memory Type	Memory Interface	TGP Max Power Consumption	Display Port	OpenGL[2]	Shader Model	DirectX	PCIe Generation	Floating-Point Performance	VR Ready[3]	Simultaneous Multi-Projection	NVIDIA FXAA / TXAA Antialiasing	NVIDIA nView Display Management Technology	GPU Direct for Video	Vulkan Support	NVIDIA Optimus
Quadro for Mobile Workstations																			
NEW	Quadro P5200	2,560	16 GB	230 GBps	GDDR5	256-bit	150 W	1.4	4.5	5.1	12	3	8.9	✓	✓	✓	✓	✓	✓	✓
NEW	Quadro P4200	2,304	8 GB	224 GBps	GDDR5	256-bit	115 W	1.4	4.5	5.1	12	3	7.6	✓	✓	✓	✓	✓	✓	✓
NEW	Quadro P3200	1,792	6 GB	168 GBps	GDDR5	192-bit	78 W	1.4	4.5	5.1	12	3	5.3	✓	✓	✓	✓		✓	✓
NEW	Quadro P2000	768	4 GB	96 GBps	GDDR5	128-bit	50 W	1.4	4.5	5	12	3	2.4		✓	✓	✓		✓	✓
NEW	Quadro P1000	512	4 GB	96 GBps	GDDR5	128-bit	40 W	1.4	4.5	5	12	3	1.6		✓	✓	✓		✓	✓
NEW	Quadro P600	384	4 GB	80 GBps	GDDR5	128-bit	25 W	1.4	4.5	5	12	3	1.2		✓	✓	✓		✓	✓
NEW	Quadro P500	256	2 GB	40 GBps	GDDR5	64-bit	18 W	1.4	4.5	5	12	3	0.75			✓			✓	✓
	Quadro P5000	2,048	16 GB	192 GBsp	GDDR5	256-bit	100 W	1.4	4.5	5.1	12	3	6.2	✓	✓	✓	✓	✓	✓	✓
	Quadro P4000	1,792	8 GB	192 GBps	GDDR5	256-bit	100/80 W[4]	1.4	4.5	5.1	12	3	4.4	✓	✓	✓	✓		✓	✓
	Quadro P3000	1,280	6 GB	168 GBps	GDDR5	192-bit	75 W	1.4	4.5	5.1	12	3	3.1		✓	✓	✓		✓	✓
	Quadro M2200	1,024	4 GB	88 GBps	GDDR5	128-bit	55 W	1.2	4.5	5	12	3	2.1			✓	✓		✓	✓
	Quadro M1200	640	4 GB	80 GBps	GDDR5	128-bit	45 W	1.2	4.5	5	12	3	1.4			✓	✓		✓	✓
	Quadro M620	512	2 GB	80 GBps	GDDR5	128-bit	30 W	1.2	4.5	5	12	3	1.0			✓	✓		✓	✓
	Quadro M520	384	1 GB	40 GBps	GDDR5	64-bit	25 W		4.5	5	12	3	0.84			✓	✓		✓	✓
	Quadro M5500	2,048	8 GB	211 GBps	GDDR5	256-bit	150 W	1.2	4.5	5	12[5]	3	4.7			✓	✓	✓	✓	✓
	Quadro M5000M	1,536	8 GB	160 GBps	GDDR5	256-bit	100 W	1.2	4.5	5	12[5]	3	3.2			✓	✓	✓	✓	✓
	Quadro M4000M	1,280	4 GB	160 GBps	GDDR5	256-bit	100 W	1.2	4.5	5	12[5]	3	2.6			✓	✓		✓	✓
	Quadro M3000M	1,024	4 GB	160 GBps	GDDR5	256-bit	75 W	1.2	4.5	5	12[5]	3	1.9			✓	✓		✓	✓
	Quadro M2000M	640	4 GB	80 GBps	GDDR5	128-bit	55 W	1.2	4.5	5	12[6]	3	1.5			✓	✓		✓	✓
	Quadro M1000M	512	2 GB	80 GBps	GDDR5	128-bit	40 W	1.2	4.5	5	12[6]	3	1.1			✓	✓		✓	✓
	Quadro M600M	384	2 GB	80 GBps	GDDR5	128-bit	30 W	1.2	4.5	5	12[6]	3	0.7			✓	✓		✓	✓
	Quadro M500M	384	2 GB	14.4 GBps	DDR3	64-bit	25 W	1.2	4.5	5	12[6]	3	0.75			✓	✓		✓	✓

1. CUDA parallel processing cores cannot be compared between GPU generations due to several important architectural differences that exist between streaming multiprocessor designs
2. 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**
3. VR Ready GPUs have the performance and features required for high-quality VR experiences
4. Max Q Design
5. GPU supports DirectX 12 API, Hardware Feature Level 12_1
6. GPU supports DirectX 12 API, Hardware Feature Level 11_0

For more information on NVIDIA mobile products, visit **www.nvidia.com/quadro**

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