WORKSTATION LINECARD

NVIDIA WORKSTATION PROFESSIONAL GRAPHICS SOLUTIONS

Model	GPU Spec: NVIDIA CUDA Processing Cores[13]	GPU Memory	Memory Bandwidth	Graphics Performance Score[1]	FP Single Precision (GigaFlops, Peak)	FP Double Precision (GigaFlops, Peak)	Error Correcting Code (ECC) Memory	Dual-Link DVI[8]	DisplayPort 1.1[12]	DisplayPort 1.2[12]	HDMI Via Adaptors	Maximum Active Displays	FSAA (Maximum)	FXAA and TXAA Antialiasing	NVIDIA SLI[9]	NVIDIA Quadro Mosaic Technology	HD SDI Capture/Output	GPUDirect for Video	Graphics Syncronization[9]	NVIDIA 3D Vision / 3D Vision Pro[10]	NVIDIA Maximus-Enabled[11]
NVIDIA® Tesla® GPU Computing Processor																					
Tesla K20 New!	TBA	TBA	TBA		TBA	TBA	✓												✓		
Tesla C2075	448	6.0 GB	144 GBps		1030	515	✓	1				1							✓		
NVIDIA® Quadro® 3D Desktop Workstation Professional Graphics Boards																					
ULTRA-HIGH END Quadro 6000	448	6.0 GB	144 GBps	49	1030	515	✓	1	2		2	2	64x		✓	✓	✓	✓	✓	✓	✓
HIGH-END Quadro K5000 New!	1536	4.0 GB	173 GBps	58	2150	90	✓	2		2	4	4	64x	✓	✓	✓	✓	✓	✓	✓	✓
Quadro 5000	352	2.5 GB	120 GBps	43	718	359	✓	1	2		2	2	64x		✓	✓	✓	✓	✓	✓	✓
Quadro 4000	256	2.0 GB	90 GBps	37	486	243		1	2		2	2	64x				✓	✓		✓	✓
Quadro 4000 for Mac	256	2.0 GB	90 GBps		486	243		1	1		2	2	64x[7]			✓					
MID-RANGE Quadro 2000	192	1.0 GB	42 GBps	29				1	2		2	2	64x			✓				✓	✓
Quadro 2000D	192	1.0 GB	42 GBps	28				2			2	2	64x			✓				✓	✓
ENTRY-LEVEL Quadro 600	96	1.0 GB	26 GBps	19				1	1		2	2	64x			✓				✓	✓
Quadro 410	192	512 MB	14 GBps	18				1		1	2	2	32x	✓		✓				✓	✓
NVIDIA Quadro 3D Mobile Workstation Professional Graphics Boards																					
17" PLATFORM Quadro K5000M New!	1344	4.0 GB	96 GBps	[2]			✓	[2]	[2]			[2]	64x	✓		✓				✓	
Quadro 5010M	384	4.0 GB	83 GBps	[2]			✓	[2]	[2]			[2]	64x			✓				✓	
Quadro K4000M New!	960	4.0 GB	90 GBps	[2]				[2]	[2]			[2]	64x	✓		✓				✓	
Quadro 4000M	336	2.0 GB	80 GBps	[2]				[2]	[2]			[2]	64x			✓				✓	
Quadro K3000M New!	576	2.0 GB	90 GBps	[2]				[2]	[2]			[2]	64x	✓		✓				✓	
Quadro 3000M	240	2.0 GB	80 GBps	[2]				[2]	[2]			[2]	64x			✓				✓	
15" PLATFORM Quadro K2000M New!	384	2.0 GB	29 GBps	[2]				[2]	[2]			[2]	64x	✓		✓				✓	
Quadro 2000M	192	2.0 GB	29 GBps	[2]				[2]	[2]			[2]	64x			✓				✓	
Quadro K1000M New!	192	2.0 GB	29 GBps	[2]				[2]	[2]			[2]	64x	✓		✓				✓	
Quadro 1000M	96	2.0 GB	29 GBps	[2]				[2]	[2]			[2]	64x			✓				✓	
Quadro K500M New!	192	1.0 GB	13 GBps	[2]				[2]	[2]			[2]	64x	✓		✓				✓	
NVIDIA Quadro Plex Scalable Visualization Systems																					
Quadro Plex 7000	1024	12.0 GB	178 GBps		1341	671	✓	4			4	4	128x		128x	✓	✓[4]			✓	✓
NVIDIA NVS™ Commercial Graphics Solutions																					
QUAD DISPLAY Quadro NVS 450	16	512 MB	11 GBps[3]						4		4	4								✓	
Quadro NVS 420 x16 or x1	16	512 MB	11 GBps[3]					4[6]	4[6]		4	4								✓	
DUAL DISPLAY NVIDIA NVS 310 x16	48	512MB	14 GBps							2	2	2								✓	
Quadro NVS 300 x16 or x1	16	512 MB	13 GBps					2[5]	2[5]		2	2								✓	
Quadro NVS 295 x16 or x1	8	256 MB	11 GBps						2		2	2								✓	

For more information on NVIDIA NVS mobile solutions, please visit **http://www.nvidia.com/object/notebook-nvs.html**

1. Relative performance score represents the geometric mean of the Viewperf 11 viewsets and is intended to provide a relative performance difference. Application scaling may vary. SPECviewperf® 11 for more information visit **www.spec.org**
2. Workstation performance and display support will vary by OEM; please see **www.spec.org** or OEM specifications for details
3. Per GPU memory bandwidth
4. Capture-compatible only
5. Supports dual SL-DVI-I/VGA/DP through DM559 connector
6. Supports quad DP/SL-DVI through VHDCI connector
7. 8x on Mac OSX, 64x on Windows
8. Maximum display resolution: 330M Pixels/sec (ex 2560x1600 @ 60Hz or 1920x1200@120Hz)
9. Quadro K-series GPUs are only compatible with Quadro Sync. Other GPUs listed are compatible only with Quadro G-Sync II.
10. Requires 3D Vision-ready display. Visit **www.nvidia.com/3dvision**
11. Quadro K-series GPUs are only compatible with Tesla K20. Other GPUs listed are compatible only with Tesla C2075.
12. Adaptors available for DVI-SL, DVI-DL, HDMI, and VGA
13. CUDA Parallel Processing Cores cannot be compared between GPU generations due to several important architectural differences that exist between streaming multiprocessor designs.

For more information on NVIDIA Workstation products, visit www.nvidia.com/workstation

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NVIDIA Maximus-powered workstations combine the industry-leading professional 3D graphics capability of NVIDIA Quadro GPUs and the high-performance computing power of NVIDIA Tesla GPUs. Tesla co-processors automatically perform the heavy lifting of rendering or CAE computations, freeing the Quadro GPUs to do what they do best—enabling rich interactive graphics. With Maximus, engineers, artists, designers, or scientists can now interact with high-performance visuals while also performing simulations or renderings on the same system.