

NVIDIA® QUADRO® PROFESSIONAL SOLUTIONS FOR DELL THE REVOLUTIONARY VISUAL COMPUTING SOLUTIONS



SPECIALTY PRODUCTS

Advanced Visual Computing Solutions

The NVIDIA Quadro Plex visual computing system (VCS) is designed to interface with industry-standard workstations and servers to deliver advanced visual computing scalability and remote graphics serving for the most demanding professional applications.

Unmatched, Real-Time Digital Video Processing

The NVIDIA® Quadro® Digital Video Pipeline delivers a fully integrated, GPU-based solution for acquisition, processing and delivery of high-resolution SDI video enabling unmatched, real-time video processing for video professionals.

Revolutionizing Advanced Visualization

The NVIDIA Quadro G-Sync¹ delivers frame and genlock functionality to unprecedented levels of industrial realism, visualization, and collaborative capabilities.

GPU Computing

NVIDIA® CUDA™ is a revolutionary parallel computing architecture for Quadro GPUs enabling breakthrough performance in areas such as such as interactive ray tracing, video processing, and engineering analysis.

	Model	Display					Performance				Image Quality	Features					Options			
		Dual-Link DVI	Display Port	# of Digital Outputs	# of Analog Outputs	Analog ² and Digital	Maximum Display Resolution Digital @ 60Hz	CUDA Processing Cores	Memory Size Total	Memory Bandwidth	Relative Performance Score ³	FSAAs (maximum)	OpenGL 3.0	DirectX 10	Shader Model	NVIDIA® SLI® Support	NVIDIA® SLI® MultiOS Support	NVIDIA® CUDA™ Technology	HD SDI Output	G-Sync
Quadro Plex	VISUAL COMPUTING SYSTEM																			
	Model 2200 S4 [4 x Quadro FX 5800]	1	N/A	1	1	✓	1280 x 1024	960	16 GB	102 GBps	N/A	64x	✓	✓	4.0	✓	✓	✓	N/A	N/A
	Model 2200 D2 [2 x Quadro FX 5800]	4	2	6	4	✓	2560 x 1600	480	8 GB	102 GBps	⁵	64x	✓	✓	4.0	✓	✓	✓	N/A	✓
Quadro FX	ULTRA-HIGH END																			
	Quadro FX 5800	2	1	3	2	✓	2560 x 1600	240	4 GB	102 GBps	N/A	32x	✓	✓	4.0	✓	✓	✓	✓	✓
	Quadro FX 5600	2		2	2	✓	2560 x 1600	128	1.5 GB	76.8 GBps	58.7	32x	✓	✓	4.0	✓	✓	✓	✓	✓
	HIGH-END																			
	Quadro FX 4800	1	2	3	1	✓	2560 x 1600	192	1.5 GB	76.8 GBps	63.6	32x	✓	✓	4.0	✓	✓	✓	✓	✓
	Quadro FX 4800 For Mac	2		2	2	✓	2560 x 1600	192	1.5 GB	76.8 GBps	63.6	32x	✓ ⁸	✓	4.0			✓		
	Quadro FX 4700 X2 [2 GPUs]	4		4	4	✓	2560 x 1600	256	2 GB	51.2 GBps ⁷	N/A	64x	✓	✓	4.0	✓	✓	✓		✓
	Quadro FX 4600	2		2	2	✓	2560 x 1600	112	768 MB	67.2 GBps	53.6	32x	✓	✓	4.0	✓	✓	✓	✓	✓
	Quadro FX 3800	1	2	3	1	✓	2560 x 1600	192	1 GB	51.2 GBps	63.1	32x	✓	✓	4.0	✓	✓	✓	✓	✓
	Quadro FX 3700	2		2	2	✓	2560 x 1600	112	512 MB	51.2 GBps	54.8	32x	✓	✓	4.0	✓	✓	✓		
	MID-RANGE																			
	Quadro FX 1800	1	2	3	1	✓	2560 x 1600	64	768 MB	38.4 GBps	60.2	32x	✓	✓	4.0			✓		
	Quadro FX 1700	2		2	2	✓	2560 x 1600	32	512 MB	12.8 GBps	41.9	32x	✓	✓	4.0			✓		
	ENTRY-LEVEL																			
	Quadro FX 580	1	2	3	1	✓	2560 x 1600	16	512 MB	25.6 GBps	49.7	16x	✓	✓	4.0			✓		
	Quadro FX 570	2		2	2	✓	2560 x 1600	16	256 MB	12.8 GBps	32.8	16x	✓	✓	4.0			✓		
	Quadro FX 470 ⁴	1		2	2	✓	2560 x 1600	16	N/A	12.8 GBps	30.6	16x	✓	✓	4.0			✓		
	Quadro FX 380	2		2	2	✓	2560 x 1600	16	256 MB	22.4 GBps	39.8	16x	✓	✓	4.0			✓		
	Quadro FX 370	1		2	2	✓	2560 x 1600	16	256 MB	6.4 GBps	24.8	16x	✓	✓	4.0			✓		
	Quadro FX 370 Low Profile			2	2	✓	1920 x 1200	8	256 MB	8 GBps	24.5	16x	✓	✓	4.0			✓		
MOBILE																				
Quadro FX 3700M	⁴		2	2	✓	⁴	128	1 GB	51.2 GBps	⁴	32x	✓	✓	4.0			✓			
Quadro FX 3600M	⁴		2	2	✓	⁴	64	512 MB	51.2 GBps	⁴	32x	✓	✓	4.0			✓			
Quadro FX 2700M	⁴		2	2	✓	⁴	48	512 MB	51.2 GBps	⁴	32x	✓	✓	4.0			✓			
Quadro FX 1700M	⁴		2	2	✓	⁴	32	512 MB	25.6 GBps	⁴	16x	✓	✓	4.0			✓			
Quadro FX 770M	⁴		2	2	✓	⁴	32	512 MB	25.6 GBps	⁴	16x	✓	✓	4.0			✓			
Quadro FX 370M	⁴		2	2	✓	⁵	8	256 MB	9.6 GBps	⁴	8x	✓	✓	4.0			✓			
Quadro NVS	QUAD DISPLAY																			
	Quadro NVS 450		4	4			2560 x 1600	16	512 MB	11.2 GBps ⁷			✓	✓	4.0			✓		
	Quadro NVS 420		4	4			2560 x 1600	16	512 MB	11.2 GBps ⁷			✓	✓	4.0			✓		
	DUAL DISPLAY																			
Quadro NVS 295 x16 or x1		2	2			2560 x 1600	8	256 MB	11.2 GBps			✓	✓	4.0			✓			
Quadro NVS 290 x16 or x1			2	2	✓	1920 x 1200	16	256 MB	6.4 GBps			✓	✓	4.0			✓			

1. Stand alone option card available for Quadro FX 5800, 5600, 4800, 4700 X2, 4600, and 3800 graphics boards only (G-Sync option is not available for Quadro FX 3800).
 2. Maximum Display Resolutions: Analog VGA- 2048 x 1536 @ 60Hz.
 3. Relative performance score represents the geometric mean of the viewperf viewsets and is intended to provide a relative performance difference.
 4. Mobile Workstation performance and display support will vary by OEM; please see www.spec.org or OEM specifications for details.

5. Quadro Plex VCS, FX 4700 X2, and FX 5800 application performance not represented in VP10 benchmark. Display support will vary by application.
 6. NVIDIA Quadro FX 470 is a motherboard solution—not available as a discrete add-in graphics board
 7. Per GPU memory bandwidth.
 8. OpenGL 2.1 on Mac OS X, OpenGL 3.0 on Windows using Boot Camp.

Which NVIDIA GPU solution is best for my environment?



High Performance Computing (HPC) Applications



Consumer/Entertainment Applications

PROFESSIONAL APPLICATIONS & SOLUTIONS

PROFESSIONAL BUSINESS APPLICATIONS

Display and Analytics

QUADRO NVS

The Standard for Business Graphics.

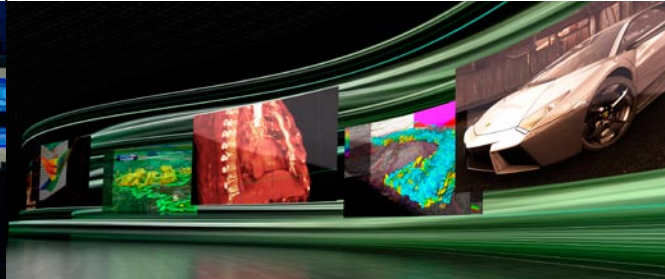


PROFESSIONAL 3D APPLICATIONS

Design, Creation, Visualization

QUADRO FX

The Definition of Performance. The Standard for Quality.

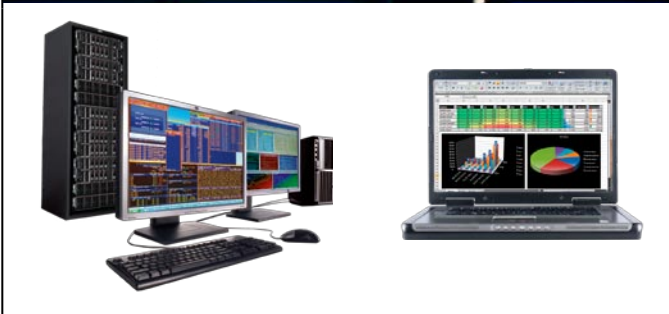
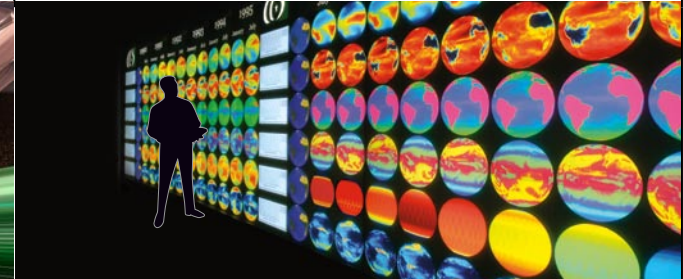


PROFESSIONAL INDUSTRY SOLUTIONS

Scalable Visualization Solutions and Digital Pipeline Video

QUADRO PLEX, QUADRO SDI, & QUADRO G-SYNC

Architected for Industry Specific Solutions.



For more information on NVIDIA and NVIDIA Quadro products, visit www.nvidia.com/quadro

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