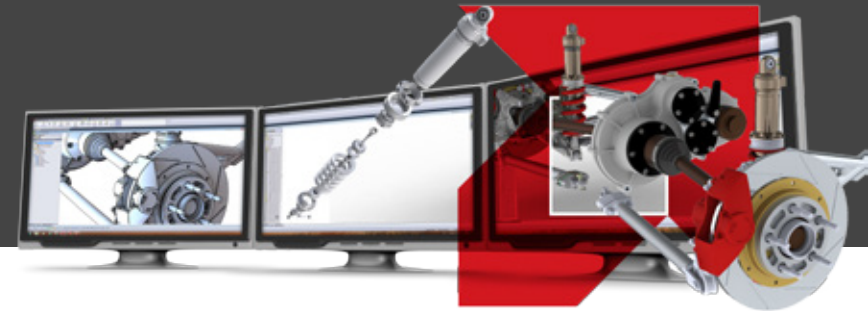




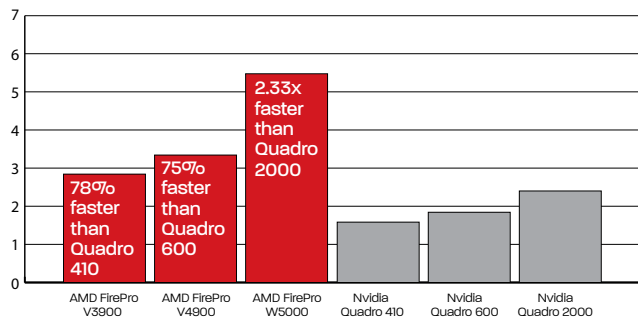
# AMD FIREPRO™ PROFESSIONAL GRAPHICS

## Benchmarking of AMD FirePro with SolidWorks 2012 & 2013

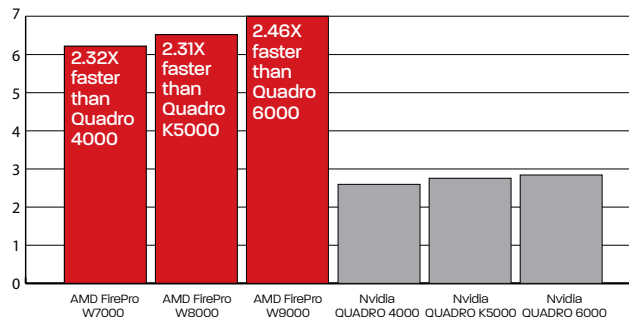


### BENCHMARK: SPECapc 2013

#### GRAPHICS COMPOSITE - MAINSTREAM<sup>1</sup>



#### GRAPHICS COMPOSITE - HIGH END<sup>1</sup>



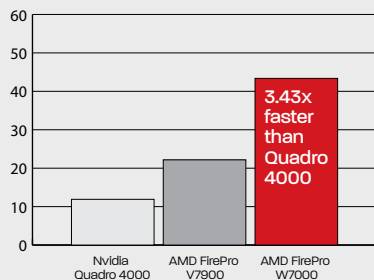
SPECapc 2013 is an independent benchmark from the Spec.org website with decent sized models that run inside SolidWorks 2013 to give realistic results on the 3D graphics performance. The models range in size and complexity and use more of the recent graphics features found in SolidWorks 2012 & 2013.

By running inside SolidWorks, the benchmark gives a more realistic indication of the performance a designer is likely to expect than a synthetic benchmark often used to benchmark graphics performance.

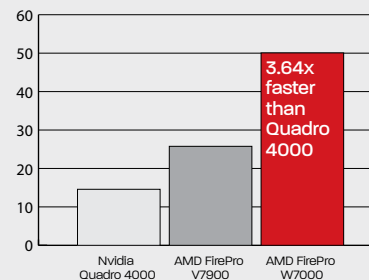
#### AMD FIREPRO™ W7000



#### SOLIDWORKS 2012 (SP4 64-BIT)<sup>2</sup>



#### SOLIDWORKS 2013 (SP1 64-BIT)<sup>2</sup>



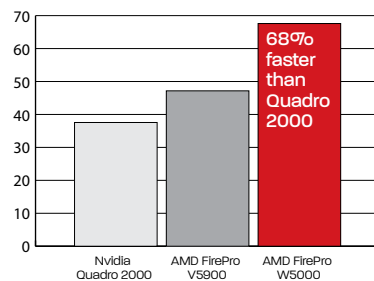
#### ELECTRIC CAR MODEL, SHADED+REALVIEW+SHADOW (FPS)



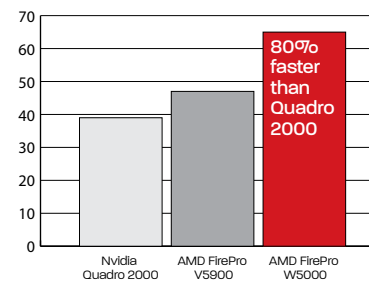
#### AMD FIREPRO™ W5000



#### SOLIDWORKS 2012 (SP4 64-BIT)<sup>2</sup>



#### SOLIDWORKS 2013 (SP1 64-BIT)<sup>2</sup>



#### RALLY CAR MODEL, SHADED+REALVIEW+SHADOW (FPS)



1. System Config: Workstation with dual Intel CPUs E5-1660 @ 3.30GHz, 16GB RAM, Win7 64-bit SP1, AMD driver 9.003.3.3, Nvidia driver 307.45, 311.15 2. System Config: Workstation with dual intel CPU system, E5-1660 @ 3.30GHz, 16GB RAM, Win7 64-bit SP1, AMD 9.003.3 Nvidia 307.45



# NEXT GENERATION OF AMD FIREPRO™ WORKSTATION GRAPHICS

## Optimised for SolidWorks 2013

### NEW AND UNIQUE FEATURES

#### GCN – Graphics Core Next Architecture

AMD GPU architecture based on 28nm technology, delivering rendering and compute performance at the same time.

#### GeometryBoost:

Helps ensure smooth handling of complex, highly tessellated models.

#### AMD PowerTune:

Optimizes power usage in real-time based on current workflow demands.

#### AMD Eyefinity:

Run up to 6 monitors from a single graphics card, boosting productivity by viewing entire workflows.

### OPTIMISED AND CERTIFIED FOR SOLIDWORKS

A rigorous and exacting certification process, conducted by Dassault Solidworks Corp, puts AMD FirePro™ professional graphics up against a series of simulations and real-world scenarios, ensuring compatibility and stability required by professionals.

#### AMD FirePro graphics are also certified for:

- Engineering and Design (CAD/CAE/AEC)
- Digital Content Creation (DCC) & Digital Media
- Geographical Information Systems (GIS) & Visualization
- Life Sciences
- Oil & Gas

### NEW AMD FIREPRO GRAPHICS CARDS



#### ← AMD FirePro W7000

High-end graphics performance and broad feature set with AMD Eyefinity for 4 displays.



#### ← AMD FirePro W5000

Mid-range graphics card delivers the perfect balance of power, performance, reliability and price.



#### ← AMD FirePro V4900

Outstanding performance and reliability for professionals who work with small to medium models.



#### ← AMD FirePro V3900

Low-profile card with 1GB of memory and AMD Eyefinity for moderately complex designs.

Model	Display				Performance										Features										Replaces				
	Maximum resolution per display output	DVI-I	DisplayPort	No. of display outputs	Compute Performance		Rendering Performance Triangle rate (Billion Tris/s)	Stream Processors	GCN Stream Processors	Memory	ECC	Memory Bandwidth (GB/s)	Maximum Power	System Int. (PCI Express)	OS - 32bit & 64bit support	AMD CrossFire Pro	OpenCL	OpenGL	DirectX	Shader Model	GeometryBoost	AMD PowerTune	AMD ZeroCore Power	3D Stereoscopic		FrameLock/ Genlock	Warranty		
					Single Precision (GFLOPS)	Double Precision (GFLOPS)																							
<b>Newest</b>	FirePro W8000	4096x2160	N/A**	4 x 1.2	4	3230	806	1.80	N/A	1792	4GB GDDR5	Yes	176	189w*	3.0	Windows 7 Windows Vista Windows XP Linux	●	1.2	4.2	11.1	5	●	●	●	●	●	●	3yr	Quadro FX5800/ Quadro K5000
	FirePro W7000	4096x2160	N/A**	4 x 1.2	4	2400	152	1.85	N/A	1280	4GB GDDR5	No	154	<150w	3.0		●	1.2	4.2	11.1	5	●	●	●	●	●	●	3yr	Quadro FX3800/4000
	FirePro W5000	4096x2160	1	2 x 1.2	3	1270	80	1.65	N/A	768	2GB GDDR5	No	103	<75w	3.0		●	1.2	4.2	11.1	5	●	●	●	●	●	●	3yr	Quadro FX1800/2000
<b>High end</b>	FirePro V7900	2560x1600	N/A**	4 x 1.2	4	1860	464	1.45	1280	N/A	2GB GDDR5	No	160	143w	2.0	Windows 7 Windows Vista Windows Xp Linux	●	1.2	4.2	11	5	●	●		●	●	3yr	Quadro FX3800/4000	
<b>Mid-range</b>	FirePro V5900	2560x1600	1	2 x 1.2	3	610	154	1.20	512	N/A	2GB GDDR5	No	64	75w	2.0		●	1.2	4.2	11	5	●	●				3yr	Quadro FX1800/2000	
<b>Entry Level</b>	FirePro V4900	2560x1600	1	2 x 1.2	3	768	n/a	0.80	480	N/A	1GB GDDR5	No	64	75w	2.0			1.2	4.2	11	5						3yr	Quadro FX580/600	
	FirePro V3900	2560x1600	1	1 x 1.2	2	624	n/a	0.65	400	N/A	1GB GDDR3	No	28.8	50w	2.0			1.2	4.2	11	5						3yr	Quadro FX380/410	

For more info visit [www.amd.com/firepronextgen](http://www.amd.com/firepronextgen)