AMD FirePro™ Professional Graphics
Dassault Systemes' CATIA® Optimization Overview

This Optimization Guide was created specifically for Dassault Systemes' CATIA® sales team to help make AMD FirePro™ professional graphics products your number one recommendation. In this tool you will find:

> **two** online tools to help CATIA® users boost productivity and

> **three** great reasons to recommend AMD FirePro™ professional graphics cards to your customers

Two New CATIA® Tools and Optimizers

AMD has developed a series of tools to help boost productivity and they are available at:
http://www.amd.com/us/products/workstation/graphics/tools/

1. **AMD Memory Viewer** shows GPU and CPU memory usage in real time.

2. **The AMD CATIA® Graphics Optimizer** (VBO Optimization) provides tools to create the ideal CATIA® workstation environment and optimize CATIA graphics performance. It includes the following real-time information:

Global
> Enables CATIA graphics/VBO optimization globally on the CATIA instances. This applies to all CATenv files.

Local
> Enables CATIA graphics/VBO optimization on a unique CATenv file. This applies to a selected CATIA version in your system.

Specific
> Allows to Specify the CATenv environment file you would like to optimize to enable graphics/VBO optimization

GPU Mem
> Allows user to estimate how much GPU memory CATIA will use based on model size and advise for best available graphics card

What is VBO: VBO stands for Vertex Buffer Object. It is an OpenGL2 technology that allows data to be cashed in the Graphics card thus allowing immediate access to very large vertex array data

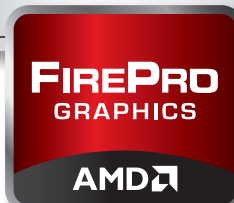## 3 Great Reasons to Recommend AMD FirePro™ Professional Graphics

1
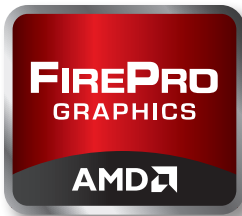A flexible range of options for every price point and workflow.

2
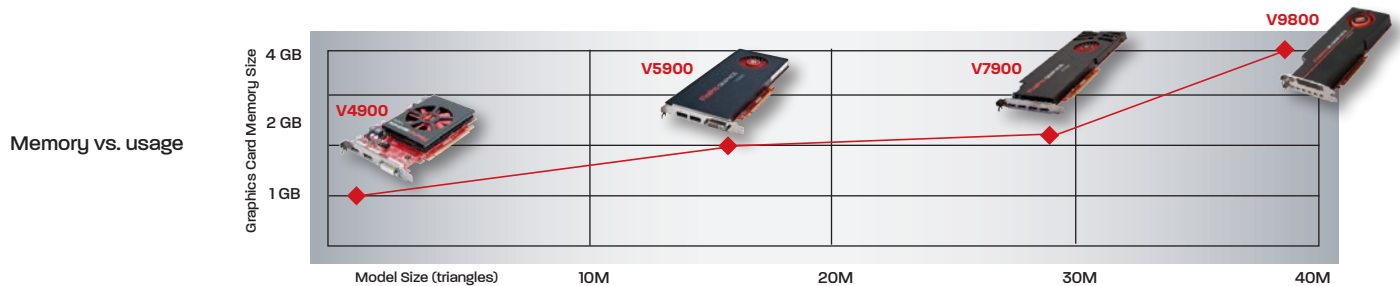AMD is an innovation leader, bringing more professional graphics industry firsts to market than the competition.
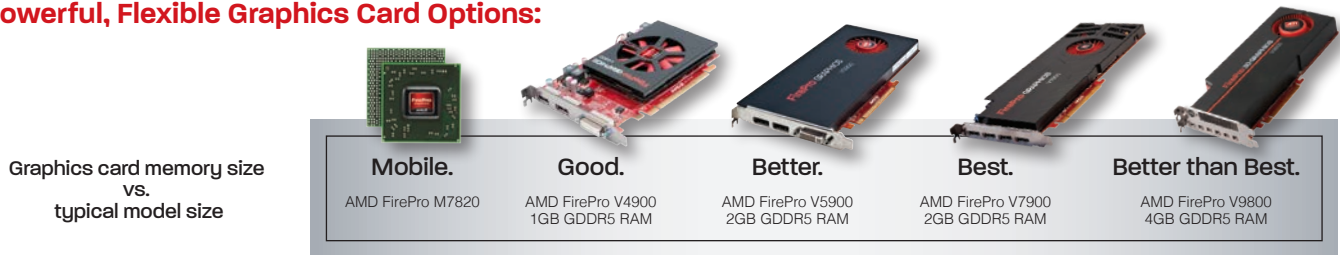
3
AMD Catalyst Pro is optimized to deliver maximum performance and reliability for CATIA® users.

1. Powerful, Flexible Graphics Card Options:

Graphics card memory size
vs.
typical model size

Mobile.	**Good.**	**Better.**	**Best.**	**Better than Best.**
AMD FirePro M7820	AMD FirePro V4900 1GB GDDR5 RAM	AMD FirePro V5900 2GB GDDR5 RAM	AMD FirePro V7900 2GB GDDR5 RAM	AMD FirePro V9800 4GB GDDR5 RAM

Memory vs. usage

Graphics Card Memory Size — 4 GB, 2 GB, 1 GB

V9800, V5900, V7900, V4900

Model Size (triangles) — 10M, 20M, 30M, 40M

2. Leading Innovation: AMD Eyefinity Multi-Display Technology
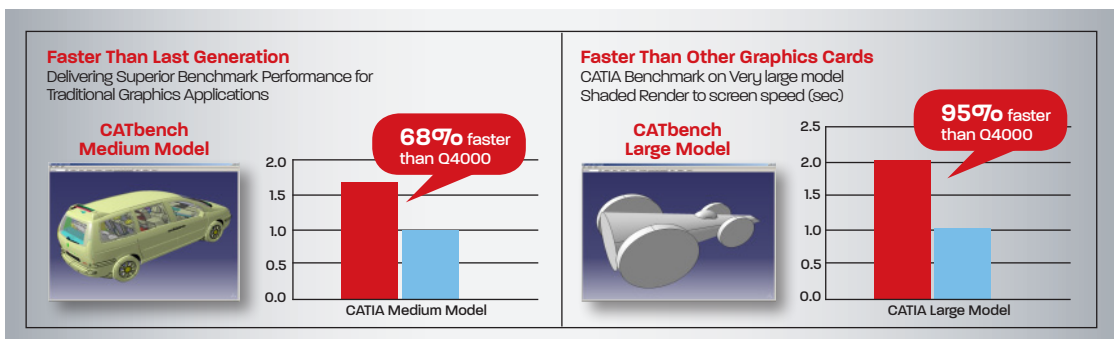
AMD FirePro™ professional graphics is the industry's only single card solution capable of powering up to 6 independent high resolution displays[1] making multitasking fast and efficient by minimizing the need to flip back and forth between windows. Eyefinity technology also allows for ultra-high-resolution design-review using blended ultra-high-resolution display technologies at resolutions up to 4 times (4X) HD and beyond.

Having multiple screens allows users to model on one screen while rendering on others.

3. AMD FirePro™ Professional Graphics: Optimized for Professional Workflows

AMD Catalyst Pro drivers are specially-tuned to provide excellent viewport performance across the range of CATIA toolsets and workflows.

Faster Than Last Generation
Delivering Superior Benchmark Performance for Traditional Graphics Applications

CATbench Medium Model

68% faster than Q4000

CATIA Medium Model — 2.0, 1.5, 1.0, 0.5, 0.0

Faster Than Other Graphics Cards
CATIA Benchmark on Very large model
Shaded Render to screen speed (sec)

CATbench Large Model

95% faster than Q4000

CATIA Large Model — 2.5, 2.0, 1.5, 1.0, 0.5, 0.0

* Testing performed by AMD Performance Labs. Based on side-by-side comparison of AMD FirePro™ V7900 professional graphics card vs. NVIDIA Quadro 4000.
System config: Intel Xeon W3680 @ 3.33GHz, Intel X58, 8GB RAM, Win 7 Prof 64-bit AMD driver: 8.86 beta; Nvidia driver: 267.79
SPECapc is a service mark of Standard Performance Evaluation Corporation - see SPEC.org

For more information and to further help you evaluate the professional graphics card that is appropriate to your needs visit www.amd.com/FirePro.

AMD