QUICKSPECS

MODELS

**Compaq PowerStorm 300
AGP Graphics Controller**
328778-B21

The Compaq PowerStorm 300
Graphics Controller is an
optimized mid-range 3D
graphics controller that provides
the fastest 3D application
performance in its class.

Overview

The Compaq PowerStorm 300 graphics controller is a high-performance 3D graphics solution for users working in demanding true color environments. The Compaq PowerStorm 300 is based on the REALimage 2100 from Evans & Sutherland and its 3D application performance makes it an ideal choice for CAD, CAM, DCC, solids modeling and visual data analysis applications. The Compaq PowerStorm 300 provides optimized support for OpenGL1.1, under Windows NT 4.0 and Compaq Tru64™ UNIX.

The Compaq PowerStorm 300 graphics controller is available in both an AGP and PCI variant. The PowerStorm 300 AGP is supported as the primary graphics device on selected Compaq workstations with Intel processors running Windows NT 4.0. The PowerStorm 300 PCI is supported as the primary graphics device on the Compaq XP1000 platform running Windows NT 4.0 or Compaq Tru64 UNIX.

Performance

The Compaq PowerStorm 300 AGP and PowerStorm 300 PCI graphics controllers each incorporate 15 MB of frame buffer memory and 16 MB of texture memory. The bilinear fill rate of 90M pixels/second and trilinear fill rate of 45M pixels/second and the ability to render 4M filled, 25-pixel triangles/second are key performance features of this high-performance 3D graphics solution.

PowerStorm 300 Viewperf PRO-CDRS-01 Preliminary

Viewperf PRO-CDRS-01 – Preliminary		
Platform	**O/S**	
	Windows NT	Compaq Tru64 UNIX
AP500	9.9	N/A
XP1000	9.5	8.6

Functionality and Uses

The Compaq PowerStorm 300 is a high-quality graphics controller for professionals requiring solid 2D and 3D features and performance along with full OpenGL 1.1 support. Users of high end 2D/3D graphics applications, such as Lightwave and Softimage, as well as CAD and CAE applications like PRO/E, UG, and Solidworks, benefit from the capabilities of this graphics controller.

The Compaq PowerStorm 300 runs applications in 16.7M photo-realistic colors. It also supports true 24-bit color at resolutions of up to 1280 x 1024 at an 85 Hz refresh rate.

Quality and Compatibility

Compaq has a solid reputation for delivering high-quality, reliable enhancement products.

Compaq enhancement products are designed and tested to rigorous specifications, including tough qualification requirements for suppliers, stringent performance specifications, and a thorough testing process to ensure consistent quality from prototype to production.

Service and Support

The PowerStorm 300 Graphics Controller carries the longer of either a one-year warranty[1] or the remainder of the warranty period for the Compaq unit in which it is installed.

Around-the-clock support is offered by Compaq's 7 x 24 technical support hotline, and on-line support forums are available on the Internet.

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KEY SPECIFICATIONS

PowerStorm 300	AGP	PCI
Operating System Support	Windows NT	Windows NT and Compaq Tru64 UNIX
Bus Type	AGP 1x	PCI (XP900 and XP1000 only)
Vertical Frequency	60-85 Hz	60-85Hz
Controller	Evans & Sutherland REALimage 2100	Evans & Sutherland REALimage 2100
Bus Type	AGP	PCI
RAMDAC	IBM RGB640	IBM RGB640
Memory Type	3DRAM & CDRAM	3DRAM & CDRAM
Memory Amount	15MB & 16MB	15MB & 16MB
Maximum Memory	15MB & 16MB	15MB & 16MB
Memory Speed	10ns 3DRAM 10ns CDRAM	10ns 3DRAM 10ns CDRAM
Data Path	64 bit	64 bit
Controller Clock Speed	100 MHz	100 MHz
Max Vertical Refresh Rate	85 Hz	85 Hz
Max Pixel Clock	220 MHz	220 MHz
Color Planes	24 bit double buffered	24 bit double buffered
Overlay	8 bit, shared w/alpha 4 bit, shared w/stencil	8 bit
Stencil Planes	4 bit, shared w/overlay	4 bit
Alpha Planes	8 bit, shared w/overlay	0
Window ID	4 bit	4 bit
Z-buffer	24 bit	24 bit
Total bits/pixel	96	96
Platforms Supported as Primary Controller	AP400, AP500, SP700	XP900, XP1000
Platforms Supported as Second Controller for Dual Display	N/A	XP900, XP1000

RESOLUTIONS SUPPORTED

1280 x 1024	WNT	Tru64 UNIX
Maximum Colors	16.7M	16.7M
Maximum Refresh Rate Supported by Driver	85Hz	85Hz
1024 x 768		
Maximum Colors	16.7M	N/A
Maximum Refresh Rate Supported by Driver	85Hz	N/A
800 x 600		
Maximum Colors	16.7M	N/A
Maximum Refresh Rate Supported by Driver	75Hz	N/A

[1] Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.