



flexibility

Sun™ XVR-1000 Graphics Accelerator

A PERSONAL VISUALIZATION TOOL THAT DELIVERS
MISSION-CRITICAL IMAGE QUALITY TO THE DESKTOP.

Sun™ XVR-1000 Graphics

Sun leads the industry by introducing Personal Visualization. Image quality that was previously only available on large and very expensive visualization systems is now available on Sun workstations. This is made possible by the introduction of the Sun XVR-1000 graphics accelerator, the newest member of Sun's graphics accelerator family.

This graphics accelerator is an ideal solution for customers needing outstanding workstation image quality. Customers involved in design/styling and virtual prototyping, GIS, medial imaging, and defense markets should appreciate the ability to accurately manipulate their large data sets. Sun XVR-1000 graphics' exceptional image quality also makes it an ideal solution for customers in many disciplines where visualization of large amounts of data is the key to quick and accurate decisions.

The image quality of the Sun XVR-1000 graphic accelerator is provided by superior window-based dynamic multisampling, 30-bit color deep framebuffer, hardware acceleration of dual-head display of a single image, and support of up to 1920 x 1200 @ 75 Hz. This graphics accelerator

has 360-MB total memory in three dedicated groups, including 72 MB of dedicated framebuffer memory, 256 MB of texture memory, and 32 MB of graphics processor instruction and temporary storage memory.

Sun's sophisticated graphics customers want and need a wide range of output options. The Sun XVR-1000 graphics accelerator provides this by supporting multiple monitors, projectors, and user-programmable options for future output devices.

HIGHLIGHTS

- High-performance 2D and 3D graphics performance provided by Sun developed hardware that supports 72 MB of dedicated framebuffer memory
- Window-based, dynamic multisampling provides up to 16 samples per pixel, depending on window size, to deliver exceptional image quality
- Onboard hardware accelerated 2D and 3D texture mapping to provide very high performance while supporting the 256 MB of dedicated texture memory
- 30-bit (10-bit/channel) color support provides up to 16 billion colors for exceptional color quality
- One Sun XVR-1000 graphics accelerator is capable of driving two displays at up to 1280 x 1024 resolution while workstations that support two accelerators can drive up

to four displays at up to 1280 x 1024 at one time

- High-resolution 2D, 3D, and stereo resolutions
- Dual head support for one logical image of 2560 x 1024 is supported by onboard hardware
- Multiple output connectors, including 13W3, HD15, DVI, S-video, and stereo
- User-programmable resolutions available for specialty output devices

SPECIFICATIONS AND REQUIREMENTS

Supported Systems

Two boards supported on Ultra™ 80, Sun Blade™ 1000, and Sun Blade 2000 systems; one board on Ultra 60 systems; board requires a double-width UPA slot

Operating System Requirements

Solaris™ 8 (10/01) Operating Environment or later

Supported APIs

Sun™ OpenGL® for Solaris™ version 1.2.3 or later, Java 3D™ APIs

Power

Wattage: 70 Watts normal operation,
6.8 Watts Energy Star operation

Dimensions and Weight

Length: 20.3 cm (8.0 in.)

Width: 8.3 cm (3.27 in.)

Height: 9.1 cm (3.58 in.)

Weight: 625 g (1.375 lb.)

RESOLUTIONS SUPPORTED

Resolution	Refresh Rate	Sync Standard
1920 x 1200	60d Hz	Sun
1920 x 1200	70, 75 Hz	Sun
1920 x 1080	60d Hz	Sun
1920 x 1080	72 Hz	Sun
1792 x 1344	60, 75 Hz	VESA
1600 x 1280	76 Hz	Sun
1600 x 1200	60d Hz	VESA
1600 x 1200	60, 73, 75 Hz	VESA
1600 x 1024	60 Hz	
1600 x 1000	66, 76 Hz	Sun
1440 x 900	76 Hz	Sun
1280 x 1024	96, 108, 112 Hz	Sun-Stereo
1280 x 1024	60, 75, 85 Hz	VESA
1280 x 1024	67, 76 Hz	Sun
1280 x 800	112 Hz	Sun-Stereo
1280 x 800	76 Hz	Sun
1280 x 768	56 Hz	Sun
1152 x 900	120 Hz	Sun-Stereo
1152 x 900	66, 76 Hz	Sun
1024 x 800	84 Hz	Sun
1024 x 768	77 Hz	Sun
1024 x 768	60, 70, 75 Hz	VESA
960 x 680	108, 112 Hz	Sun-Stereo
800 x 600	75 Hz	VESA
768 x 575	50i Hz	PAL
640 x 480	180fsc Hz	
640 x 480	60, 72, 75 Hz	VESA
640 x 480	60i Hz	NTSC

ADDITIONAL INFO

For additional information, go to:

<http://www.sun.com/desktop/graphics>

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