performance

Sun Blade™ 2000 Workstation

CELEBRATING 20 YEARS OF INNOVATION WITH THE POWER TO COMPUTE, RENDER, AND VISUALIZE THE MOST COMPLEX DATASETS

SUN BLADE™ 2000 WORKSTATION

The Sun Blade™ 2000 workstation offers technical professionals a high-performance, yet affordable, tool for demanding compute-intensive applications. From the highest floating-point performance UltraSPARC™ III Cu 64-bit architecture (up to two 900- or 1050-MHz CPUs) to the amazing visualization capabilities of Sun™ XVR-1000 graphics, the Sun Blade 2000 is on the leading edge of technology. It features a high-performance crossbar-switch system interconnect that provides high-bandwidth data throughput for today and tomorrow's ultra-high-speed processors and graphic subsystems. It also supports up to 146 GB of high-performance internal disks and 8 GB of memory. The Sun Blade 2000 provides both USB and IEEE 1394 interfaces for selected hot-plug external devices. With support for state-of-the-art high-end graphics, multiple monitors, and many of Sun's advanced storage systems, this workstation is truly a powerful, flexible, next-generation desktop.

SPECIFICATIONS

PROCESSOR
Up to two 900-MHz or 1050-MHz UltraSPARC III Cu.
Sun Blade 2000 does not allow for mixed CPU speeds.
8-MB L2 cache for 900- and 1050-MHz models

MEMORY
8 GB maximum, ECC error correction
Eight Sun 232-pin SDRAM DIMM slots

STANDARD INTERFACES

Network	Ethernet/FastEthernet, twisted pair standard (10-BaseT and 100-BaseT)
I/O	External Ultra SCSI, one external FC-AL port using HSSDC connector for mass storage
Serial	Two RS-232C/RS423 (DB25-F) ports, four USB (Type A) connectors, two IEEE 1394 (6-pin) connectors
Parallel	One D-Sub 25-pin connector, IEEE 1284 (bidirectional)
Audio I/O	One line-in, one line-out, one microphone-in, one speaker-out
Expansion bus	Four 64-bit PCI slots, full-size, three at 33 MHz, one at 66 MHz, two UPA graphics slots

MASS STORAGE AND MEDIA

Internal disk	One or two 73-GB, 10,000 rpm FC-AL disk drives Three removable media bays for choice of: 4-mm tape drive 10X-speed DVD-ROM; 3.5-in., 1.44-MB floppy
External	Automated tape devices (optional) FC-AL storage arrays (optional) FC-AL disk multipack (optional)

GRAPHICS AND IMAGING
Two graphics UPA slots and four 64-bit PCI slots. Sun XVR-1000, Sun PGX64™, Sun Expert3D-Lite, and Sun Expert3D graphics are supported. SunVideo Plus™, SunCamera™ peripherals, and the Sun 1394 Vis Kit are available as options.

Sun XVR-1000 graphics
Sun introduces Personal Visualization on workstations. Personal Visualization is the ability to use high-end visualization tools and technologies in the personal work environment. It makes the high-end visualization experience available for volume deployment in organizations. Features included: Dedicated 72 MB of framebuffer and 256 MB of texture memory, true multisampling at up to 16 samples per pixel, 30-bit color accuracy, super high-resolution 2-D, 3-D for stereo and monochrome, hardware-accelerated dual display of one logical image at up to 2560 x 1024, wide range of standard and user-programmable display resolutions. Supported outputs include 13W3, HD15, DVI, and S-Video. This is an ideal graphics accelerator for users in Oil&Gas, Design/Styling, GIS, Medical imaging, or Defense.

Sun Expert3D graphics
High-performance graphics with texture-mapping acceleration for demanding 3-D applications in geotechnical, high-end MCAD, digital content creation, visualization and simulation — where hardware-based texture mapping is essential. Features 128-MB total on-board memory with 64 MB for accelerated texture-mapping performance. Sun Expert3D graphics also supports true-color 3-D double and Z-buffering at very high large-screen HDTV monitor support (1920 x 1200 @ 75 Hz), and stereo-mode graphics for enhanced realism at high resolutions (1280 x 800 @ 112 Hz).

Sun Expert3D-Lite graphics
Sun's most affordable 3-D graphics board with on-board 3-D geometry acceleration, hardware-based texture mapping for demanding geotechnical, MCAD, digital content creation, visualization, and simulation applications. Features 48-MB total on-board memory with 16 MB dedicated for accelerated texture-mapping. Comes with an HD-15 connector.

Sun PGX64 graphics
PGX64 provides Sun with a very low-cost, flexible 2D graphics board supporting the widest range of Sun systems and all monitors available today. PGX64 graphics support a wide range of resolutions up to and including 1920 x 1200 @ 8-bit and 1920 x 1080 @ 24-bit color. Up to 4 boards may be installed in a Sun Blade 2000 to drive 4 monitors. PGX64 is an Energy Star-compliant product.

Sun 1394 Visual Collaboration Kit
A real-time video conferencing kit contains a digital camera, a microphone, and SunForum™ 3.1 video conferencing software, and connects via the IEEE 1394 interface.

SOFTWARE

Operating system	Solaris™ 8 2/02 (preinstalled)

MONITOR OPTIONS

24.1-inch LCD	Sun's sleek 24.1-inch LCD monitor is a high-performance, high-resolution, large-area, full-color, Active-Matrix TFT Liquid Crystal Display (LCD) monitor optimized to show the full graphics capabilities of Sun Microsystems' workstations and servers. It combines state-of-art LCD technology, a 16:10 aspect ratio, and 1920 x 1200 resolution to provide one of the highest-quality flat panel monitors available today for the high-end graphic markets. Video interfaces include DVI-D, 13W3, S-Video, and C-Video, along with required connecting cables. An HD-15 adapter cable is also included.
24-inch wide screen CRT	1280 x 800 resolution, 76-Hz refresh rate 1440 x 900 resolution, 76-Hz refresh rate 1600 x 1000 resolution, 76- or 66-Hz refresh rate 1920 x 1200 resolution, 70-Hz refresh rate
21-inch CRT	960 x 680 resolution, 112-Hz refresh rate 1024 x 768 resolution, 76-Hz refresh rate 1152 x 900 resolution, 76- or 66-Hz refresh rate 1280 x 1024 resolution, 60-, 76-, or 67-Hz refresh rate 1600 x 1200 resolution, 75-Hz refresh rate
18-inch color flat panel	1152 x 900 resolution, 76- or 66-Hz refresh rate 1280 x 1024 resolution, 60-, 67-, or 76-Hz refresh rate

ENVIRONMENT

AC power	100-120; 220-240 V AC, 47–63 Hz, Typical 2 CPU config 0.39KVA; Maximum 0.875KVA
Operating	5° C to 40° C* (41° F to 140° F) sea-level, (35° C or 95° F at 10,000 ft.); 20% to 80% relative humidity, noncondensing, 27° C maximum wet. Note: * The maximum operating temperature is 35° C (at sea level) when using tape media.
Nonoperating	-40° C to 60° C (-40° F to 140° F) 93% relative humidity, noncondensing
Operating acoustic noise	5.64 bels
Idling acoustic noise	4.77 bels

REGULATIONS

Safety	Meets or exceeds the following requirements: UL 1950, CSA C22.2 No. 950, TÜV EN 60950, CB Scheme with Nordic deviations, EMKO-TSE (74-SEC) 203, ZH1/618
RFI/EMU	FCC Class B, DOC Class B, VCCI Class 2, EN 55022 Class B, EN 61000-3-2
Immunity	EN 50082-1
X-ray	DHHS 21 Subchapter J, PTB German X-ray Decree
Power management	Energy Star compliant (selected configurations)

DIMENSIONS AND WEIGHTS

Height	45.5 cm (17.9 in.)
Width	25.6 cm (10.1 in.)
Depth	61.0 cm (24.0 in.)
Shipping weight	31.8 kg (70.0 lb.)