



# SUN BLADE™ 1000 WORKSTATION

## A tremendous performance boost for demanding compute-intensive applications.

Sun ushers in an exceptional tool for technical professionals with the Sun Blade™ 1000 workstation. The Sun Blade 1000 system accommodates up to two superscalar, 64-bit, high-performance UltraSPARC™-III CPUs. It features a high-performance, crossbar-switch system interconnect that provides high bandwidth for today's and tomorrow's ultra-high-speed processors and graphic subsystems. It also delivers plenty of

internal disk and memory and a 64-bit PCI bus for incredibly fast I/O. The Sun Blade 1000 workstation provides both USB and IEEE 1394 interfaces for connectivity to the leading edge in third-party peripherals. With state-of-the-art high-end graphics, dual monitor capabilities, and support for Sun's advanced storage systems, this workstation is truly a powerful, flexible, next-generation desktop.

### HIGHLIGHTS

- Powered by up to two 600-, 750-, or 900-MHz UltraSPARC-III CPUs.
- Supports up to 8 GB of main memory and up to 72 GB of 10,000-rpm FC-AL disk storage.
- Choice of Sun™ Creator3D, Sun Elite3D m6, and Sun Expert3D graphics technology for high-performance graphics functionality.
- IEEE 1394 ports for high-speed digital video I/O; USB ports for connecting USB devices.
- Three removable media slots for choice of DVD-ROM, 4-mm tape, or floppy; smart-card reader is standard.
- Four industry-standard 64-bit PCI slots provide access to hundreds of expansion and high-performance networking options.
- Runs Solaris™ 8 10/00 Operating Environment; binary compatible with previous Solaris platform versions and entire workstation and server lines.

# Sun Blade™ 1000 Workstation

The Sun Blade 1000 workstation provides exceptional flexibility in memory, disk, I/O interfaces, peripherals, and graphics options, while meeting the rigorous standards required by today's technical and business professionals.

## PROCESSOR

Up to two 600-, 750-, or 900-MHz UltraSPARC-III CPUs (64-bit)

4 MB External Cache for 600-MHz models

8 MB External Cache for 750- and 900-MHz models

## MEMORY

8 GB maximum, ECC error correction

Eight 50-ns, 168-pin DIMM slots

## STANDARD INTERFACES

Network	Ethernet/Fast Ethernet, twisted pair standard (10-BaseT and 100-BaseT) self-sensing
Serial	Two RS-232C/RS423 (DB25-F) ports; Four USB (Type A) connectors; Two IEEE 1394 (6-pin) connectors; One Fibre Channel Arbitrated Loop (FC-AL) for mass storage; External Ultra SCSI.
Parallel	One D-Sub 25-pin connector, IEEE 1294 (bidirectional)
Audio I/O	One line-in/line-out. One microphone-in/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 Two 18/36-GB, 10,000 rpm FC-AL disk drives

Three removable media bays for choice of:

	4-mm tape drive
	4X-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 support Sun Creator3D and Sun Elite3D m6 graphics. PCI-based PGX32™ and Sun Expert3D graphics are also supported.

SunVideo Plus™, SunCamera™ peripherals are available as options.

### Sun Creator3D Graphics

Accelerated 24-bit double-buffered 3-D graphics with 28-bit Z-buffer and 8-bit overlay plane. Gouraud shading, alpha-blending and screen-door transparency, line antialiasing, depth-cueing, 4-bit stencil support with hardware acceleration of OpenGL® stencil functions, four 256-entry colormaps for dynamic color map segment allocation and adjustable gamma correction. NTSC/PAL video timing support. 1280 x 1024 @ 76 Hz resolution standard, stereo 960 x 680 @ 112 Hz supported with 21-inch monitor. Option to reconfigure frame buffer to high-resolution single-buffered Sun Creator graphics for imaging applications supporting 24-inch high-resolution wide-screen monitors, up to 1920 x 1200 @ 70 Hz.

### Sun Elite3D m6 Graphics

Very high performance graphics with the integrated imaging features of Creator3D, plus accelerated 24-bit double-buffered 3-D graphics with 28-bit Z-buffer and 8-bit overlay plane. Gouraud shading, alpha-blending and screen-door transparency, line and dot antialiasing, per-pixel depth-cueing, per-pixel alpha interpolation, 4-bit stencil support with hardware acceleration of OpenGL stencil functions, four 256-entry colormaps for dynamic colormap segmental location and adjustable gamma correction, NTSC/PAL video timing support. 1280 x 1024 @ 76 MHz resolution standard, stereo 960 x 680 @ 112 Hz supported with 21-inch monitor.

### 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™ 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 10/00 (pre-installed)

## MONITOR OPTIONS

17-inch entry-level color	1024 x 768 resolution, 76-Hz refresh rate
	1152 x 900 resolution, 76- or 66-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
21-inch color	- 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
24-inch wide screen color	- 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

## ENVIRONMENT

AC power	100-120; 220-240 VAC, 47-63 Hz, 0.3 K VA
Operating	5°C to 40°C (50°F to 95°F) IEC 60068-2-1, IEC 60068-2-2 Test Bb 20% to 80% relative humidity, noncondensing
Nonoperating	-40°C to 60°C (-4°F to 140°F) IEC 60068-2-1, IEC 60068-2-2 Test Bb 5% to 93% relative humidity, noncondensing

## REGULATIONS

Meets or exceeds the following requirements:

Safety	UL 1950, CSA C22.2 No. 950, TUV 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.)

**HEADQUARTERS** SUN MICROSYSTEMS, INC., 901 SAN ANTONIO ROAD, PALO ALTO, CA 94303-4900 USA

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