

# Sun Blade™ 2500 Workstation



A powerful, 64-bit UNIX® workstation for high-performance computing

## Key feature highlights

- Up to two 1.6-GHz UltraSPARC® IIIi processors provide a low-cost solution without sacrificing high performance
- Up to 16 GB of DDR memory (two CPUs required) with Error Correction supplies enough RAM expandability to support the most demanding 64-bit applications
- Up to two 146-GB, Ultra320 SCSI, 10,000-RPM hard-disk drives allow for large internal storage and scalability
- Three 1394a (FireWire™) ports enable access to a wide variety of connectivity devices available on today's workstations
- Six 64-bit PCI slots offer excellent flexibility, system expansion, and support for both Sun and third-party PCI cards
- An integrated, on-board 10/100/1000Base-T Ethernet provides the highest bandwidth networking standard available on the desktop today
- The Sun™ XVR-1200, Sun™ XVR-600, and Sun™ XVR-100 graphics accelerators offer 2-D to professional-grade 3-D graphics
- Support for the SunPCI™ IIIpro coprocessor card
- Preinstalled in the Sun 2500:
  - Solaris™ 8 Operating System
  - Solaris 9 Operating System
  - StarOffice™ 7.0 Office Suite

## Innovation with the Power to Compute, Render, and Visualize the Most Complex Datasets

The Sun Blade™ 2500 Workstation offers technical professionals a high-performance, yet affordable tool for demanding, compute-intensive applications. With the amazing visualization capabilities of the Sun XVR-1200 graphics accelerator, the Sun Blade 2500 Workstation is on the leading edge of technology.

The latest Sun Blade 2500 Workstation includes the 1.6-GHz UltraSPARC IIIi processor, which is 25-percent faster than its predecessor, and offers double the storage and memory capacity of the previous version as well. The Sun Blade 2500 Workstation has the best floating-point performance in the traditional UNIX® workstation market, along with leading price/performance.

The Sun Blade 2500 Workstation comes with Solaris 8 and Solaris 9 Operating System preinstalled, providing the most scalable, secure, and available operating system in its class. Coupled with the Solaris Operating System, the Sun Blade 2500 Workstation provides fast performance, near-continual uptime, and the security and reliability required from a mission-critical desktop. And the existing operating system and hardware are maintained through binary compatibility, so you get the investment protection of Sun software and hardware along with Sun's vast knowledge base.

A robust platform, large memory footprint, high-bandwidth memory controllers, and support for visualization-class graphics enable the Sun Blade 2500 Workstation to handle compute-intensive applications, high-end graphics, and large datasets. This proven tool is a powerful solution that delivers the innovation and reliability needed for compute-intensive environments, while providing industry-best price/performance in the technical workstation market.



# Sun Blade 2500 Workstation Specifications

## Processor

Up to two 1.6-GHz UltraSPARC III processors; 1 MB on-die L2 cache

## Memory

16 GB maximum, low-profile DDR-1 registered ECC DIMMs (2 CPUs required for maximum memory utilization, four slots per CPU)

DIMM slots	Eight DIMM slots (512-MB, 1-GB, and 2-GB DIMMs supported)
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## Standard Interfaces

Network	10/100/1000 Base-T Ethernet, twisted pair standard
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I/O	Three USB 2.0 ports, four USB 1.1/1.0 ports, three 1394a (FireWire) ports
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Serial	Two RS-232C/RS-423 (DB9-M) ports
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Parallel	One D-sub 25-pin connector, IEEE 1284 (bidirectional)
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Audio	One line-in, one line-out, one microphone-in, one headphone-out
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Expansion bus	Six full-length PCI slots: • Three 64-bit/66-MHz PCI slots • Three 64-bit/33-MHz PCI slots
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## Mass Storage and Media

Internal storage	Up to two 146-GB Ultra320SCSI, 10,000-RPM hard-disk drives
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Removable media choices	DVD-R, CD-R, CD-RW drive DVD-R DVD-RW, CD-R, CD-RW drive (optional)
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External storage	External VHDCI (SCSI) connector for portable mass storage
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## Graphics and Imaging

Supports Sun XVR-1200, SunXVR-600, and Sun XVR-100 graphics accelerators:

### Sun XVR-1200 Graphics Accelerator

The Sun XVR-1200 graphics accelerator is ideal for demanding 3-D applications that require excellent performance and quality. The Sun XVR-1200 provides a high-end visualization solution designed to allow for fast, accurate data analysis and more profitable decision-making. The Sun Blade 2500 Workstation supports up to two Sun XVR-1200 graphics boards.

### Sun XVR-600 Graphics Accelerator

The Sun XVR-600 graphics accelerator is a high-value, low-cost graphics board that delivers professional-level 3-D graphics technology. With over twice the peak geometry and two and a half times the peak texture performance of the Sun™ XVR-500, high-resolution support, and dedicated texture memory, it is an ideal 3-D graphics solution for the price-conscious customers in technical markets. The Sun Blade 2500 Workstation supports up to three Sun XVR-600 graphics boards.

### Sun XVR-100 Graphics Accelerator

The Sun XVR-100 graphics accelerator is Sun's general-purpose 2-D graphics accelerator, providing users with a low-cost, 24-bit, 2-D graphics solution. The Sun XVR-100 graphics accelerator features 64 MB of SDRAM memory and dual-display support. The Sun Blade 2500 Workstation supports up to three Sun XVR-100 graphics boards.

## Software

Operating system	Solaris 8 preinstalled Solaris 9 preinstalled
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Office productivity suite	StarOffice 7.0 preinstalled
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## Monitor Options

24.1-inch LCD	<ul style="list-style-type: none"> <li>• 0.27mm pixel pitch</li> <li>• 24-bit color, 256 gray-scale levels, 16.7 M colors</li> <li>• Up to 1920 x 1200 @ 60 Hz (16:10 aspect ratio mode)</li> <li>• DVI-D, HD-15, D-Video and C-Video input connectors</li> <li>• Four-port USB hub</li> </ul>
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22-inch flat-screen CRT	<ul style="list-style-type: none"> <li>• 20-inch viewable area screen AG CRT</li> <li>• 0.24mm aperture grille pitch</li> <li>• 1600 x 1200 @ 75 Hz</li> <li>• Two 15 pin D-sub connectors</li> </ul>
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19-inch TFT flat-panel LCD	<ul style="list-style-type: none"> <li>• 19-inch viewable area (equiv. to 21-inch CRT)</li> <li>• 0.29mm pixel pitch</li> <li>• True 24-bit, 256 gray-scale levels, 16.7 M colors</li> <li>• 1280 x 1024 @ 60 Hz (5:4 aspect ratio)</li> <li>• DVI-D and HD-15 input connectors</li> </ul>
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17-inch color CRT	<ul style="list-style-type: none"> <li>• 16-inch viewable area</li> <li>• 0.24mm dot pitch</li> <li>• Up to 1280 x 1024 @ 75 Hz, 76 Hz</li> <li>• HD-15 video connector on a two-meter captive video cable</li> </ul>
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## Environment

AC power	90-264 V AC, 47-63 Hz, typical 2-CPU config. 0.39 KVA; max. 0.875 KVA
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Operating temp./humidity	5° C to 35° C (41° F to 95° F); 20% to 93% relative humidity, noncondensing
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Nonoperating temp./humidity	-32° C to 65° C (26° F to 149° F): 93% relative humidity, noncondensing
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Operating acoustic noise	5.9 bels
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Idling acoustic noise	5.8 bels
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## Regulations (meets or exceeds the following requirements)

Safety	UL 60950, EN 60950, CSA C22.2-60950, IEC 60950 CB Scheme with all national differences
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RFI/EMI	EN 55022/CISPR22 Class B, FCC CFR47 Part 15 Class B; EN 61000-3-2, EN 61000-3-3
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Immunity	EN 55024
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Ergonomics	EK1-ITB-2000
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Regulatory markings	UL/CUL, TUV/GS, CE, FCC, ICES-003, C-Tick, VCCI, GOST-R, BSMI, CCC, S-Mark, MIC
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Power management	Registered configurations are EPA Energy Star Compliant
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## Dimensions and Weights

Height	19.0 in. (483mm)
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Width	8.3 in. (210mm)
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Depth	19.3 in. (490mm)
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Weight	49.6 lb. (22.5 kg) fully configured
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Get the details. Find out more about the Sun Blade 2500 Workstation—a high-performance, low-cost solution for compute-intensive applications — by visiting [sun.com/2500](http://sun.com/2500).

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