Sun Blade™ 2500 Workstation

A low cost 64-bit UNIX® workstation for high performance computing.

Key feature highlights

- Up to two 1.28 GHz UltraSPARC IIIi processors provide a low-cost solution without sacrificing high performance
- Up to 8 GB of DDR memory with Error Correction supplies enough RAM expandability to support the most demanding 64-bit applications
- Up to two Ultra 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-500 and Sun XVR-100 graphics accelerators offers 2D to professional grade 3D graphics
- Support for the SunPCI III coprocessor card
- The Sun Blade 2500 comes pre-installed with:
  - Solaris 8 HW 5/03 Operating System
  - Sun StarOffice™ 6.0 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 best price performance of any dual CPU 64-bit traditional workstation and the amazing visualization capabilities of the Sun™XVR-1200 graphics accelerator, the Sun Blade 2500 is on the leading edge of technology.

Sun’s new multiprocessing Sun Blade 2500 is the first dual CPU workstation based on the new UltraSPARC® IIIi processor, the highly-integrated, performance-scalable, 64-bit compute engine. Based on Sun’s flagship UltraSPARC III processor, it’s the ideal transition or upgrade product for Sun’s installed customer base running previous generation workstations, including the Sun Ultra™ 60, Ultra 80, Sun Blade 1000 and Sun Blade 2000 workstations.
The Sun Blade 2500 workstation comes with Solaris™ 8 HW 5/03 Operating System pre-installed, providing the most scalable, most secure and most available operating system in its class. Coupled with Solaris 8, the Sun Blade 2500 provides fast performance, near continual up-time, 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, hardware and our 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 and performance in the technical workstation market.

## Sun Blade™ 2500 Workstation Specifications

### Processor
Up to two 1.28 GHz UltraSPARC IIIi processors
1 MB on die L2 cache

### Memory
8 GB maximum, low profile DDR2 registered ECC DIMMs
Eight DIMM slots
512 MB and 1 GB DIMMs supported

### Standard Interfaces

<table>
<thead>
<tr>
<th>Network</th>
<th>10/100/1000Base-T Ethernet, twisted pair standard</th>
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</thead>
<tbody>
<tr>
<td>I/O</td>
<td>Three USB 2.0 ports, four USB 1.1/1.0 ports, three 1394a (FireWire) ports</td>
</tr>
<tr>
<td>Serial</td>
<td>Two RS-232C/RS-232 (DB-25) ports</td>
</tr>
<tr>
<td>Parallel</td>
<td>One D-Sub 25-pin connector, IEEE 1284 (bidirectional)</td>
</tr>
<tr>
<td>Audio</td>
<td>One line-in, one line-out, one microphone-in, one headphone-out</td>
</tr>
</tbody>
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### Mass Storage and Media

- Internal Storage: Up to two 36 GB Ultra320 SCSI, 10,000 rpm hard disk drives (operating at 16x speeds), 16x DVD-ROM Drive
- External Storage: External VHDCI (SCSI) connector for portable mass storage

### Graphics and Imaging

- SunBlade 2500 supports XVR-1200, XVR-500 and XVR 1000 graphics accelerators
- Sun XVR-100 Graphics Accelerator
  - The Sun XVR-100 graphics accelerator is ideal for demanding 3D applications that require excellent performance and quality. The Sun XVR-100 provides a high-end visualization solution designed to allow for fast, accurate data analysis and more profitable decision-making.
  - The Sun Blade 2500 supports up to two XVR 1000 graphics boards
- Sun XVR-500 Graphics Accelerator
  - The Sun XVR-500 graphics accelerator provides outstanding performance, quality, and value. With exceptional geometry and texture-mapping performance, dedicated frame buffer memory support, and a wide range of resolution and multi-display options, the Sun XVR-500 graphics accelerator is ideal for 3D graphics applications. Sun Blade 2500 supports up to two XVR 500 graphics boards.
- Sun XVR-1200 Graphics Accelerator
  - The Sun XVR-1200 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-1200 graphics accelerator features 32 MB of SRAM memory, and dual-display support. Sun Blade 2500 supports up to three XVR 1000 graphics boards.

### Software
- Operating System
  - Solaris 8 HW 5/03 or later pre-installed

### Monitor Options

- 24.1-inch LCD
  - 0.27 mm pixel pitch
  - 24-bit color, 256-gray scale levels, 16.7 M colors
  - Up to 1366x1024x100 Hz (60 Hz:10:1 aspect ratio mode)
  - DVI-1, 13W3, S-Video and CVI/Display Input connectors
- 22-inch flat screen AG CRT
  - 20-in viewable area
  - 0.24 mm aperture grille pitch
  - 1600x1200 @ 75 Hz (default) recommended
  - 4-port UDA Hub
  - HD15-pin video input connector
- 21-inch flat screen AG CRT
  - 19.8-in viewable area
  - 0.24 mm aperture grille pitch
  - 1600x1200 @ 75 Hz (default) recommended
  - 2-meter captive 13W3 video input
  - HD15-pin video input connector
- 18-inch Sun TFT flat panel LCD
  - 18.1-in viewable area (equiv to 19-in/20-in CRT)
  - 0.28 mm pixel pitch
  - True 24-bit, 256-gray scale levels, 16.7 M colors
  - 1280x1024 @ 60 Hz or 76 Hz (5:4 aspect ratio)
  - DVI and HD-15 Input connectors
- 17-inch Sun color CRT
  - 16.9-in viewable area
  - 0.26 mm dot pitch
  - Up to 1280x1024 @ 75 Hz, 76 Hz

### Environment

- AC power: 100-120; 220-240 V AC, 47–63 Hz, typical
- 2 CPU config 0.39 KVA; Maximum 0.875 KVA
- Operating Temp/Humidity: 5°C to 35°C (41°F to 95°F); 20% to 95% relative humidity, noncondensing
- Nonoperating Temp/Humidity: -40°C to 65°C (-40°F to 158°F); 93% relative humidity, noncondensing
- Operating acoustic noise: 5.4 bels
- Idle acoustic noise: 5.1 bels

### Dimensions and Weights

- Height: 483 mm (19.0 in)
- Width: 210 mm (8.3 in)
- Depth: 490 mm (19.3 in)
- Weight: 22.5 kg (49.6 lbs) fully configured