Sun Ultra™ 45 Workstation
Upgrading Productivity

Highlights

- Ultimate upgrade platform for all SPARC®/Solaris™ OS-based workstations

- Dual and single UltraSPARC® IIIi processor configurations with the Solaris 10 Operating System deliver binary compatibility from the desktop to the data center and seamless upgradeability

- Grid-enabled with included Sun N1™ Grid Engine software license

- New PCI Express-based graphics solutions with 2.6x the performance of current graphics offerings

- Dual PCI Express x16 graphics slots (x8 logically), single PCI Express x8 slot (x4 logically) and dual PCI-X 100 MHz slots deliver superior graphics and I/O performance.

- Comes preinstalled with the Solaris 10 OS and a complete suite of permanently licensed Sun software development tools, including Java Studio Sun Studio and Java Enterprise System

> Upgrade productivity with the latest addition to Sun's line of enterprise class workstations—the Sun Ultra™ 45 Workstation—ideal for businesses demanding the legendary quality and reliability of Sun SPARC/Solaris OS-based workstations. With higher performance, larger data capacity and higher-end graphics capabilities, the Sun Ultra 45 workstation excels at compute and capacity intensive tasks, including computer-aided design and analysis, imaging, exploration and visualization across the manufacturing, government, energy, and education markets.

Grid enabled

The Sun Ultra 45 Workstation comes bundled with Sun's N1 Grid Engine software to boost ROI by leveraging unused compute cycles for applications. The ability to incorporate groups of workstations with N1 Grid Engine enables enterprises to significantly increase the management and utilization of compute resources for enhanced productivity—and save money by stretching existing IT assets.

PCI Express for enhanced graphics

Visualization and graphics capabilities are delivered across a PCI Express graphics bus—doubling the bandwidth of AGP 8x and increasing the performance of Sun's existing PCI-based graphics solutions. Sun's new XVR-2500 3-D graphics accelerator, with over 80 million peak 3-D Gouraud-shaded X-buffered triangles per second, delivers a 2.6x performance improvement over Sun's previous generation XVR-1200.

The Sun Ultra 45 Workstation boost capacity and storage options over previous generations, offering dual Gigabit Ethernet, five I/O expansion slots—two PCI Express x16 slots (x8 logically), one PCI Express slot (x4 logically) and two PCI-X 100 MHz full-length expansion slots—and support for up to four 250-GB internal SATA hard drives. With a maximum memory of up to 16 gigabytes and a terabyte of internal storage, the Sun Ultra 45 Workstation has the capacity to handle datasets of any size.

With Sun's strong ISV relationships, developed over the last 20 years of delivering proven and reliable workstation solutions, application availability and compatibility can be ensured.

The Sun Ultra 45 Workstation, grid-enabled and loaded with a complete set of software development tools, is the best step up for any SPARC/Solaris OS-based workstation user.

Sun Ultra 45 Workstation Specifications

Architecture

Processor

Up to two 1.6 GHz UltraSPARC IIIi processors, one MB Level 2 cache each

Memory

16 GB maximum; up to eight registered DIMMs (four per CPU); DDR1-333 ECC in 512 MB, 1 GB and 2 GB capacities

Standard interfaces

Network

Two 10/100/1000 Base-T Gigabit Ethernet ports (two rear panel)

USB

Six USB ports (two font, four back)

Audio

Integrated AC '97 (two front, two rear panel) Channel full stereo audio, with line in, line out, headphone, and mic

Expansion bus

Two PCI Express x16 graphics slots (x8 logically), one PCI Express x8 expansion slot (x4 logically), two PCI-X 100 MHz slots.

Mass storage

Up to four 250 GB (7,200 rpm) SATA hard drives (1 TB max)
Up to four 146 GB (15,000 rpm) SAS hard drives

Optical drives

One Slim DVD-RW/CD-RW

Software

Operating systems

Solaris 10 01/06 Operating System (preinstalled)

Included software

Sun™ Studio 11
Sun Java™ Studio Creator 2004Q2
Sun Java™ Studio Enterprise 8
NetBeans™ 4.1
Sun N1™ Grid Engine 6

Graphics cards

XVR-100 2-D graphics card
XVR-2500 3-D graphics card

Input devices

Sun Type 7 USB keyboard (support for up to 22 language layouts) and two-button optical scroll mouse

Monitors

Sun 24-inch LCD
Sun 21-inch CRT
Sun 19-inch LCD
Sun 17-inch CRT
Sun 20-inch LCD

Environment

Power supply

1,000 watts

Operating temperature

2° C to 35° C (41° F to 95° F); 7 percent to 93 percent relative humidity, noncondensing

Nonoperating temperature

-40° C to 68° C (-40° F to 158° F); 93 percent relative humidity, noncondensing

Acoustic noise

Operating

5.0 Bels

Idle

5.0 Bels

Dimensions and weight

Height

445mm (17.5 inches)

Width

205mm (8.1 inches)

Depth

569mm (22.4 inches)

Weight

26.31 kg (58 lbs.) fully configured

Regulations

Safety

UL/CSA-60950, EN 60950, IEC 60950 CB

Ergonomics

EK1-1TB-2000, RFI/EMC, EN 55022/CISPR22 Class B, FCC CFR47
Part 15 Class B; EN 6100-3-2, EN 61000-3-3

Immunity

EN 55024

Regulatory markings

UL/cUL, TUV-GS, CE FCC, ICES-003, C-Tiek, VCCI, GOST-R, BSMI CCC, S-Mark
RoHS-compliant