

Sun Ultra™ 27 Workstation

Unmatched visualization performance



Highlights

- Reduce development cycles and design errors with ECC-protected memory
- Visualize more and larger data sets simultaneously with the NVIDIA Quadro FX 5800 Graphics Accelerator
- Deploy with confidence knowing that the Solaris OS, Linux, and Windows are compatible and are backed by the worldwide Sun™ Services organization
- Dual purpose — the only workstation to support Windows Server 2008
- Supported by award-winning SunSpectrum™ services, installation, and high-performance computing (HPC) services

Sun was founded 27 years ago as a workstation company. Today, Sun's open network systems include the Sun Ultra 27 workstation. Embedded in this workstation are the speed, simplicity, and savings that help your engineering projects meet deadlines on time. Sun's experts in workstation design created the only workstation in its class to support NVIDIA's FX5800 graphics card, while providing unmatched visualization performance. Sun maintains a base of over one million installed workstations at leading companies. Deploy with confidence knowing that Sun's ingenuity and experience can help bring your products to market more quickly.

The Sun Ultra 27 Workstation is compatible with more operating systems than any other workstation in its class — including the Solaris OS, Windows, and Linux — for the best development flexibility. It deploys quickly and dependably, ready to use right after unpacking, preinstalled with software tools including IDE and compilers. With fast memory bandwidth, superior Intel Xeon processor 3500 series performance, hard-drive interfaces, and extremely reliable memory, it helps speed the design cycle — to make your organization more competitive. With this workstation, designers and developers can simultaneously visualize a larger number of data sets, utilizing only ISV-certified workstation-class graphics accelerators. This enables users to take on

the challenge of visualizing an entire project at once, rather than only a partial assembly.

Backed by the global Sun Services organization, the cost-effective, single-socket Sun Ultra 27 Workstation is a powerful and reliable resource for your IT infrastructure. It is ideal for a wide variety of industries — including software development, electronic design automation (EDA), mechanical computer-aided design (MCAD), as well as HPC. Entry level only in terms of its highly competitive price, the system leverages decades of innovation by Sun, the inventor of the workstation category. A significant advance for the discerning professional, this system from Sun offers a new level of price/performance.



Sun Ultra 27 Workstation Specifications

Architecture

Processor

Intel Xeon processor 3500 series

Cache

- Level 1: 32 KB instruction and 32 KB data L1 cache per core
- Level 2: 256 KB unified (data and instruction) L2 cache per core
- Level 3: 8 MB shared inclusive L3 cache per processor

Main memory

Six unbuffered DDR3 DIMM slots; system supports from 2 GB (2x 1 GB) to 12 GB (6x 2 GB) of memory

Graphics accelerators

- High-end: NVIDIA Quadro FX 5800
- Midrange: NVIDIA Quadro FX 3800/FX 1800
- Entry-level: NVIDIA Quadro FX 380

Standard integrated interfaces

- Network: One 10/100/1000 Mb/sec Ethernet port
- USB: Eight USB 2.0 ports (two front, four rear, two internal)
- 1394a: Two ports (front)
- Expansion slots: Six PCIe slots — two PCIe 2.0 x16 slots, one PCIe 2.0 x8 slot (x4 electrical), one PCIe 1.0 x8 slot (x4 electrical), one PCIe 1.0 x1 slot, one conventional PCI slot (32-bit/33 MHz)

Software

Operating systems

- Solaris 10 OS
- Red Hat Enterprise Linux 5 (32-bit/64-bit)
- SUSE Linux Enterprise Desktop 10
- Windows Server 2008
- Windows Vista



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Development tools

NetBeans™ IDE, Sun™ Studio 12 software preinstalled

Security

Trusted Platform Module (TPM) included — version 1.2

Management

Desktop Management Interface (DMI) support

Mass storage and media

Internal disk option: SAS or SATA (up to four) disk drives, plus DVD-R/W

RAID configuration

- SATA RAID levels 0, 1, 5, 10 (Windows only) standard via Intel ICH10R I/O controller and Intel Matrix Storage Manager
- SAS RAID levels 0, 1, 5, 10 (Windows only) optional via add-in card

Input devices

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

Displays

- Sun 24.1 in. LCD
- Sun 22 in. LCD
- Sun 19 in. LCD
- Sun 17 in. LCD

Environment

- Operating temperature: 5° C to 35° C (41° F to 95° F)
- Nonoperating temperature: -40° C to 65° C (-40° F to 149° F)
- Operating relative humidity: 7–93%, noncondensing
- Nonoperating relative humidity: Up to 93%, noncondensing

Learn More

To learn more about the Sun Ultra 27 Workstation, go to: sun.com/ultra27.

- Operating altitude: Up to 3,000m, max. ambient temperature is derated by 1° C per 300m above 900m
- Nonoperating altitude: Up to 12,000m
- Acoustic noise: 4.6 B operating, 4.4 B idling

Power

- UL maximum input power: 12 A rms at 100 V AC
- Power supply output rating: 530 W at 80% efficiency
- AC power: 100–240 V AC, 12/6 A, 50–60 Hz

Regulations

Safety: UL/CSA 60950, EN 60950, IEC 60950
RFI/EMI: EN 55022/CISPR 22 Class B, FCC CFR 47 Part 15 Class B; EN 61000-3-2, EN 61000-3-3
Immunity: EN 55024

Certifications

Safety: UL/cUL, TUV-GS, CE, BSMI, CCC, GOST-R, S-Mark
EMC: CE, FCC, VCCI, ICES, C-Tick, KCC
Other: Complies with WEEE Directive (2002/96/EC) and RoHS Directive (2002/95/EC)

Dimensions and weight

Height: 433.6mm (17.07 in.)
Width: 199.6mm (7.86 in.)
Depth: 467.45mm (18.4 in.)
Weight: 16.8 kg (37 lbs.) max.

Warranty

One year, next business day

