



Sun Ultra™ 20 M2 Workstation Breakthrough price/performance



Highlights

- Maximize your desktop performance with a Sun Ultra™ 20 M2 Workstation — risk-free for 60 days. Sign up for a free trial at sun.com/tryandbuy
- Preinstalled with the Solaris™ 10 OS and a complete suite of fully licensed Sun development tools, including Sun™ Studio, Sun Java™ Studio and Creator, and NetBeans™

“Sun has managed to produce a very good machine in the Ultra 20 M2. It’s fast and capable, and has a good range of hardware ports and support.”

— Free Software Magazine, June 2007

“An excellent entry-level machine in a market that has been dominated by Intel-based workstations for so long.”

— MCAD Online, August 2006

Performance and flexibility



The Sun Ultra 20 M2 Workstation achieves breakthrough price and performance.

Having the flexibility to run the Solaris 10 OS, Linux, and Windows, and with binary compatibility for 32-bit and 64-bit applications, it is developer ready — with Sun’s award-winning, enterprise-class development tools — all at an attractive starting price.

Sun workstations are the industry’s only x64 workstations with the Solaris 10 OS pre-installed. The Sun Ultra 20 M2 Workstation delivers the highest performance available on a single-socket system and provides the ability to write and deploy Solaris 10 OS-based and Java™-based applications. Created for EDA, software development, event-driven architecture, mechanical computer-aided design (MCAD), and academic research, the Sun Ultra 20 M2 Workstation delivers more power and expandability for the demanding user. It offers the flexibility needed to run a wide range of applications within the same architecture, minimizing support and training costs.

The combination of competitive pricing and support delivered by our world-class services organization, from basic warranty to same-business-day service, places the

Sun Ultra 20 M2 Workstation among the best for low TCO. Developed by Sun, the inventor of the workstation, the Sun Ultra 20 M2 Workstation delivers high quality, reliability, and stability.

The Sun Ultra 20 M2 Workstation uses the latest industry-standard DDR2 unbuffered ECC DIMMs for ultrafast performance and increased cost savings. Using serial ATA (SATA) hard disk drives, the Sun Ultra 20 M2 Workstation provides a vast amount of internal data storage. And by offering RAID 0 and 1, increased performance and data protection can be easily achieved.¹

These features, along with the choice of NVIDIA professional graphics solutions, make this workstation ideal for software development, MCAD, education, EDA, or any task that requires high performance.

Sun Ultra 20 M2 Workstation Specifications

Processor

One Dual-Core AMD Opteron™ 1200 Series processor with 1 MB Level 2 cache per core and one 1.0 GHz HyperTransport™ link (1210 — 1.8 GHz, 1214 — 2.2 GHz, 1218 — 2.6 GHz, 1220 — 2.8 GHz, 1222SE — 3.0 GHz)

I/O chipset

NVIDIA nForce Professional 3600 MCP

Memory

Up to four ECC unbuffered DDR2-667 DIMMs, supporting up to 8 GB (512 MB, 1 GB, and 2 GB DIMM capacities)

Standard integrated interfaces

- Network: Two 10/100/1000Base-T Ethernet ports (rear panel)
- USB: Six USB 2.0 ports (two front, four rear)
- FireWire: Two IEEE 1394a ports (two front)
- Audio: Intel® High Definition Audio 1.0 (two ports front, three ports rear)
- Expansion bus: One PCI Express (PCIe) x16 slot, one PCIe x16 (x8 lanes electrical), one PCIe x1 slot, and three PCI slots (32-bit/33 MHz, 5 V)
- Mass storage: Up to two 3.5 in. SATA 7,200 rpm drives; 1.5 TB maximum — 250 GB, 500 GB, and 750 GB capacities — or up to two 3.5 in. SAS 15,000 rpm drives; 600 MB maximum — 146 GB and 300 GB capacities
- Optical drives: DVD-ROM or DVD-Dual (16x DVD +/- RW drive; supports read/write in dual +/- formats)

Software

Operating systems

- Solaris 10 OS preinstalled
- Red Hat Enterprise Linux WS 3 (32-/64-bit)
- Red Hat Enterprise Linux WS 4 (32-/64-bit)
- Red Hat Enterprise Linux WS 5 (32-/64-bit)
- SUSE Linux Enterprise Desktop 10 (64-bit)
- SUSE Linux Enterprise Server 9 (64-bit)
- Windows XP Professional (32-bit)
- Windows XP Professional x64 Edition
- Microsoft Windows Server 2003
- Microsoft Vista

Preinstalled Software

- Sun Studio
- Sun Java Studio Creator
- Sun Java Studio Enterprise
- NetBeans

Graphics

- Professional 2D: NVIDIA Quadro NVS 285 (128 MB DDR2, PCIe x16)
- Entry 3D: NVIDIA Quadro FX 560
- Midrange 3D: NVIDIA Quadro FX 1500
- High-end 3D: NVIDIA Quadro FX 3500

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 20.1 in. LCD
- Sun 19 in. LCD
- Sun 17 in. LCD

Learn More

To learn more about the Sun Ultra 20 M2 Workstation, go to: sun.com/ultra20.

Environment

- Power supply: 400 W
- Operating temperature:
 - 5° C to 35° C (41° F to 95° F);
 - 20–93% relative humidity, noncondensing
- Nonoperating temperature:
 - 40° C to 65° C (-40° F to 158° F);
 - 93% relative humidity, noncondensing
- Acoustic noise
 - Operating: 4.7 B
 - Idle: 4.3 B

Dimensions and weight

Height: 433.6mm (17.07 in.)

Width: 199.6mm (7.86 in.)

Depth: 467.45mm (18.40 in.)

Weight: 15.4 kg (34 lbs.) fully configured

Regulations (meets or exceeds the following requirements)

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

Ergonomics: EK1-1TB-2000

RFI/EMC: EN 55022/CISPR 22 Class B, FCC CFR 47 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-Tick, VCCI, GOST-R, BSMI, CCC, S-Mark, MIC

Power Management: Supports PowerNow. Standard ACPI power states (S0, S3, S4, S5) management

Warranty

- One year, next business day
- Hardware coverage hours: Business hours
- Hardware response times: Next business day
- Delivery method: Parts exchange or onsite

¹ RAID 0/1 has been tested on Windows XP Professional and Windows XP Professional x64 only.

