

## Sun Java™ Workstation W1100z

Featuring the AMD Opteron™ processor



### Key feature highlights

- One AMD Opteron™ processor (up to 2.4 GHz — Model 150)
- Five PCI-X expansion slots
- Up to two 80-GB, UltraATA, 7200-RPM hard disk drives
- Up to 8 GB of PC3200 (DDR-400) memory with error correction
- Low-latency, dual-channel memory controller with error correction
- Integrated, on-board 10/100/1000Base-T Ethernet
- Choice of professional graphics accelerators: High-performance 3-D, midrange 3-D, entry-level 3-D, and 2-D
- Best-in-class industrial design
- Convenient front access to 1394a/USB/audio
- Optimized cooling to ensure the lowest possible noise emission
- Sun Enterprise™ services provides high-level support and mission-critical response
- Fully validated for Solaris™ 9 OS, Solaris 10 OS, SUSE LINUX Enterprise Server 9, and Red Hat Enterprise Linux WS version 3
- Sun Java™ Desktop System release 2 preinstalled



The Sun Java Workstation W1100z accelerates project development with best-in-class performance, delivers investment protection through 32-bit and 64-bit processing, provides flexibility by supporting multiple operating systems and offers breakthrough visualization capabilities for complex datasets — all backed by Sun's 10 years of experience in developing 64-bit workstations.

### Position yourself for the future of 64-bit technical computing

The Sun Java™ Workstation W1100z is intelligently designed to utilize the lightning-fast 100-Series AMD Opteron™ processor. It simultaneously runs 32- and 64-bit applications on the Solaris Operating System, Sun Java™ Desktop System, and Linux, with no compromises in performance. With unmatched performance, flexibility, and affordable pricing, the Sun Java Workstation W1100z delivers the ideal price/performance ratio for technical computing environments, including software development, electronic design automation (EDA), and mechanical computer-aided design and engineering (MCAD/MCAE).

Sun has architected the Sun Java Workstation W1100z as an expandable, reliable, affordable technical-computing powerhouse. The Sun Java Workstation W1100z uses the AMD Opteron processor with HyperTransport technology, which eliminates I/O bottlenecks found in today's front-side bus (FSB) architectures. The Sun Java Workstation W1100z has a system architecture consisting of a powerful 64-bit CPU, up to 8 GB of memory support, and an ultra-fast I/O subsystem — all packaged in a mini-tower form factor. Additionally, the Sun Java Workstation W1100z supports a wide range of professional OpenGL graphics accelerators and multiple displays to help you achieve your next level of creativity.

## Sun Java Workstation W1100z Specifications

### Processor options

One AMD Opteron™ processor (up to 2.4 GHz—Model 150)

### Memory

- 8 GB maximum PC3200 DDR registered ECC DIMMs
- Four DIMM slots (512-MB, 1-GB, and 2-GB DIMMs supported; must be installed in pairs only)

### Standard interfaces

- Network: 1 x 10/100/1000Base-T Ethernet, twisted pair standard
- USB: 5 x USB 2.0 ports (2 x front, 3 x rear)
- FireWire: 2 x 1394a ports (1 x front, 1 x rear)
- Serial: 2 x RS-232C/RS-423 (DB9-M) (2 x rear)
- Parallel: 1 x D-Sub 25-pin port, IEEE 1284 (bidirectional)
- Audio: 1 x line-in, 2 x line-out, 2 x microphone-in
- Expansion slots: PCI-X slots: 1 x 64-bit/133-MHz, 4 x 64-bit/100-MHz, 1 x AGP8x

### Mass storage and media

- Drive bays: External 2 x 5.25-in. (for DVD drives), Internal 2 x 3.5-in. (for HDD)
- Hard-disk drive: UltraATA: UltraATA 80 GB
- DVD combo: DVD-ROM/CD-RW drive (standard configuration)
- DVD recorder: 16x dual-layer DVD recorder (optional)

### Operating systems

- Solaris 9 OS 04/04 for x64
- Solaris 10 OS Update 7 HW 1 for x64
- Red Hat Enterprise Linux WS v3 (x86 and AMD64)
- SUSE LINUX Enterprise Server 9 (EM64T and AMD64)
- Windows XP Professional (Windows Catalog Certified)

### Office productivity software

90-day trial version of Sun Java Desktop System release 2 preinstalled

### Graphics

NVIDIA Quadro NVS280 Graphics Accelerator

- 350 MHz internal dual RAMDACs
- Display maximum resolution/refresh: 2048 x 1536 x 32 bpp at 75 Hz
- Dual-link internal TMDS (DVI)
- Maximum resolution over digital port: 1280 x 1024

NVIDIA Quadro FX500 Graphics Accelerator

- DAC maximum resolution/refresh: 2048 x 1536 x 32 bpp at 75 Hz
- Internal single-link TMDS (optional DVI-I) with reduced blanking: 1600 x 1200 x 32 bpp at 60 Hz

NVIDIA Quadro FX3000 Graphics Accelerator

- 400 MHz integrated RAMDACs
- Display resolution: 2048 x 1536 x 32 bpp at 85 Hz
- Single-link external TMDS on primary connector
- Maximum resolution over digital port: 1600 x 1200 x 32 bpp at 60 Hz
- Dual-link external TMDS on secondary connector
- Maximum resolution over digital port: 2048 x 1536 x 32 bpp at 60 Hz

NVIDIA Quadro FX4000 Graphics Accelerator

- 400 MHz integrated RAMDACs
- 2048 x 1536 x 32 bpp analog resolution at 75 Hz (1920 x 1440 x 32 bpp at 85 Hz) on both displays
- Dual dual-link TMDS (DVI 1.0)
- Maximum resolution over digital port: 3840 x 2400 at 24 Hz (1920 x 1200 x 60 Hz with reduced blanking)

### Learn More

Find out more about the Sun Java Workstation W1100z—an expandable, powerful technical workstation featuring the AMD Opteron processor—by visiting [sun.com/w1100z](http://sun.com/w1100z).

### Environment

- Power supply: 550 W, 90-264 V, 47-63 Hz
- Operating temp./humidity: 5° C. to 35° C. (41° F. to 95° F.) at sea level; 10% to 90% relative humidity condensing, 27° C. maximum wet bulb
- Nonoperating temp./humidity: -40° C. to 65° C. (-40° F. to 149° F.) at sea level; 93% relative humidity, non-condensing, 38° C. maximum wet bulb
- Operating acoustic noise: 5.1 bels
- Idling acoustic noise: 5.0 bels

### Regulations (meets or exceeds the following requirements)

- Safety: UL/CSA-60950, EN 60950, IEC 60950 CB
- RFI/EMI: EN 55022/CISPR22 Class B, FCC CFR47 Part 15 Class B; EN 61000-3-2, EN 61000-3-3, EN300-386 v1.3.1
- Immunity: EN 55024, EN 300-386 v1.3.1
- Ergonomics: EK1-ITB-2000
- Regulatory markings: UL/cUL, TUV-GS, CE, FCC, ICES-003, C-Tick, VCCI, GOST-R, BSMI, MIC, CCC (pending), S-Mark

### Dimensions and weights

Height : 462mm (18.2 in.)

Width: 200mm (7.9 in.)

Depth: 557mm (21.9 in.)

Weight: 24 kg (53 lb.) fully configured