

Sun Java™ Workstation W2100z

Featuring the AMD Opteron™ processor



Key feature highlights

- Two AMD Opteron™ processors (up to 2.6 GHz— Model 252)
- Five PCI-X expansion slots
- Up to four 146-GB Ultra320 SCSI hard disk drives
- Up to 16 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 in 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 W2100z provides lightning-fast x64 performance, runs multiple operating systems, including the Solaris OS, Linux and Windows, offers breakthrough visualization capabilities for complex data sheets and large images on multiple displays, and is migration-ready with 32-bit and 64-bit processing.

Position yourself for the future of 64-bit technical computing

Sun has architected the Sun Java Workstation W2100z as a high-performance, ultra-reliable technical-computing powerhouse. It simultaneously runs 64-bit and 32-bit applications on the Solaris Operating System (OS), Sun Java Desktop System, and Linux with no compromise in performance. With world-record performance and visualization-class graphics, the Sun Java Workstation W2100z delivers unmatched performance for complex computing environments, including oil and gas, digital imaging, engineering, and scientific computing.

The Sun Java Workstation W2100z utilizes lightning-fast AMD Opteron™ processors with Hypertransport™ technology, which eliminates I/O bottlenecks found in today's front-side bus (FSB) architectures. The Sun Java Workstation W2100z is a system architecture consisting of two compute engines, up to 16 GB of memory support, and an ultra-fast I/O subsystem—all packaged in a mini-tower form factor. Additionally, the Sun Java Workstation W2100z supports a wide range of professional OpenGL graphics accelerators and multiple displays to help you achieve your next level of creativity.

Sun Java Workstation W2100z Specifications

Processor options

Two AMD Opteron™ processors (up to 2.6 GHz—Model 252)

Memory

- 16 GB maximum PC3200 DDR registered ECC DIMMs
- Eight 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 connector, 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 4 x 3.5-in. (for HDD)
- Hard-disk drive: SCSI: Ultra320 SCSI, 146-GB 73-GB
- DVD combo: DVD-ROM/CD-RW drive (standard configuration)
- DVD recorder: 16x dual-layer DVD recorder

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)

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 W2100z—an expandable, powerful technical workstation featuring the AMD Opteron processor—by visiting sun.com/w2100z.

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: EK1-1TB-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