

Sun Java™ Workstation W2100z



The scalable, dual-processor technical workstation featuring the AMD Opteron processor

Key feature highlights

- Two AMD Opteron processors (up to 2.4 GHz — Model 250)
- Five PCI-X expansion slots
- Up to two 73-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 four professional graphics accelerators: High-performance 3-D, mid-range 3-D, entry 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 and Red Hat Enterprise Linux WS version 3

Position Yourself for the Future of 64-bit Technical Computing

The Sun Java™ Workstation W2100z is designed with two AMD Opteron processors to enable simultaneous 64-bit and 32-bit computing with no compromise in performance. With high-performance storage, visualization-class graphics, and the legendary Sun™ Service organization, the Sun Java Workstation W2100z delivers highest performance for complex computing segments, including oil/gas, imaging, and scientific computing.

Unlike competitors' x86 workstations using repurposed PC technology, Sun has architected the Sun Java Workstation W2100z as a fast, reliable technical-computing powerhouse. Utilizing the AMD Opteron processors and HyperTransport technology, 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 2.4 GHz—Model 250)

Memory

16 GB maximum, PC3200 DDR registered ECC DIMMs

DIMM Slots

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 AGP slot 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 | SCSI | Ultra320 SCSI 73 GB |
| DVD Drives | DVD Combo | DVD-ROM/CD-RW drive (standard configuration) |
| | DVD Burner | DVD +/- R/RW (optional) |

Software

| | | |
|------------------|---------|--|
| Operating System | Solaris | Solaris 9 04/04—x86 Platform Edition |
| | Linux | Red Hat Enterprise Linux WS version 3—x86 edition Red Hat Enterprise Linux WS version 3—AMD64 version |
| | Windows | WHQL certification |

Graphics and Imaging

The Sun Java Workstation W2110z is available preconfigured with the NVIDIA Quadro FX3000 Graphics Accelerator or the NVIDIA Quadro NVS280 Graphics Accelerator. The NVIDIA Quadro FX1100 Graphics Accelerator and the NVIDIA Quadro FX500 Graphics Accelerator are available via Assemble to Order (ATO).

NVIDIA Quadro FX3000 Graphics Accelerator

2048 x 1536 @ 85/75/72/70/60 Hz, 8, 16, 32 bits per pixel
1920 x 1440 @ 85/75/72/70/60 Hz, 8, 16, 32 bits per pixel
1920 x 1200 @ 85/75/72/70/60 Hz, 8, 16, 32 bits per pixel

NVIDIA Quadro FX1100 Graphics Accelerator

2048 x 1536 @ 85/75/72/70/60 Hz, 8, 16, 32 bits per pixel
1920 x 1440 @ 85/75/72/70/60 Hz, 8, 16, 32 bits per pixel
1920 x 1200 @ 85/75/72/70/60 Hz, 8, 16, 32 bits per pixel

NVIDIA Quadro FX500 Graphics Accelerator

2048 x 1536 @ 85/75/72/70/60 Hz, 8, 16, 32 bits per pixel
1920 x 1440 @ 85/75/72/70/60 Hz, 8, 16, 32 bits per pixel
1920 x 1200 @ 85/75/72/70/60 Hz, 8, 16, 32 bits per pixel

NVIDIA Quadro NVS280 Graphics Accelerator

2048 x 1536 @ 60Hz, 32 bits per pixel
1920 x 1440 @ 75/72/70/60 Hz, 32 bits per pixel
1920 x 1200 @ 75/72/70/60 Hz, 32 bits per pixel

Monitor Options

| | |
|---------------------------|--|
| 24.1-in. LCD | <ul style="list-style-type: none"> • 0.27 mm pixel pitch • 24-bit color, 256 gray-scale levels, 16.7 M colors • Up to 1920 x 1200 @ 60 Hz (16:10 aspect ratio mode) • DVI-D, 13W3, S-Video and C-Video input connectors • 4-port USB hub |
| 22-in. Flat-Screen AG-CRT | <ul style="list-style-type: none"> • 20-in. viewable area • 0.24 mm aperture grille pitch • 1600 x 1200 @ 75 Hz (default) recommended • 2-meter captive HD-15 video input • HD15-pin video input connector |
| 19-in. Sun TFT Flat | <ul style="list-style-type: none"> • 18.1-in. viewable area (equiv. to 21-in. CRT) LCD • 0.294 mm pixel pitch • True 24-bit, 256 gray-scale levels, 16.7 M colors • 1280 x 1024 @ 60 Hz or 76 Hz (5:4 aspect ratio) • DVI-I and HD-15 input connectors and cables |
| 17-in. Sun Color CRT | <ul style="list-style-type: none"> • 16-in. viewable area • 0.24 mm dot pitch • Up to 1280 x 1024 @ 75 Hz, 76 Hz |

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)

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|---------------------|--|
| 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, EN 300-386 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

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|--------|---------------------------------|
| Height | 462 mm (18.2 in.) |
| Width | 200 mm (7.9 in.) |
| Depth | 557 mm (21.9 in.) |
| Weight | 24 kg (53 lb.) fully configured |

Get the details.
Find out more about the Sun Java Workstation W2100z — a scalable, dual-processor technical workstation featuring the AMD Opteron processor — by visiting sun.com/W2100z.