

# SUN FIRE X4275 SERVER

## KEY FEATURES

### DATA AND MEDIA STORAGE COMBINED WITH A COMPUTE ENGINE IN A SINGLE SYSTEM

- Rack-optimized (2U), two-socket, enterprise-class x64 server
- Supports up to two high-performance Intel Xeon processors 5500 series, 18 DIMM slots, and 12 3.5 in. disk drive bays that can support SAS or SATA hard disk drives, or solid-state drives (SSDs)—can support up to 24 TB of raw storage capacity
- More than enough compute performance to drive the most demanding streaming multimedia applications
- Easy and simple system management and monitoring built into every system—seamlessly integrates into existing infrastructure
- One of the world's best-performing storage servers in its class
- Choice of virtually any operating system, including Solaris OS, Linux, Windows, and VMware
- Supported by award-winning, SunSpectrum services, installation, and data management services

*Oracle's Sun Fire X4275 server, the innovative open network system, is the best value for a rich media server that meets the demands of multimedia applications. Optimized for streaming media, MySQL software, data warehousing, and video surveillance applications, and with Oracle's SSD/Flash technology storage infrastructure, the system speeds up data queries exponentially, meeting your company's most stringent requirements—now and in the future.*



**The Sun Fire X4275 server combines data and media storage with a compute engine.**

### Breaking Ground in Data Center Management

Superior storage at its most cost-effective—that's the bottom line with Sun Fire X4275 server. It provides 12 TB of raw storage with up to 8 Gb/sec of streaming, offering significant savings in \$/stream<sup>1</sup> as well as savings in energy and space for your next digital media server. Along with reduced energy and space costs, the system offers extreme storage density with SSDs. This, combined with the powerful Solaris ZFS File System from Oracle, enables the system to minimize silent data corruption and volume management, making it a powerful choice for data warehousing applications.

The Sun Fire X4275 server also simplifies and streamlines the expansion of storage capacity. Supporting all 32-bit and 64-bit x86 applications, the server scales with your business, offering a choice of operating system and optimal compute, memory, I/O, and storage density to enable seamless scaling within and without.

Leading its class in multimedia streaming applications, the Sun Fire X4275 server leverages eight high-performance Intel Xeon processor 5500 series cores and the new Intel QuickPath Architecture for maximal compute power. Availability is ensured with redundant, hot-swappable disks, fans, and power supplies for maximal uptime. And the Sun Fire X4275 server leverages Oracle's experience and

<sup>1</sup> Based on Sun Fire X4275 server factory-integrated configuration that includes an Intel Xeon processor E5520, 12x 1 TB SATA HDD, 2 GB DDR3. Prices are subject to change.

innovation to provide your data center with superior management, reliability, and serviceability while protecting your IT investment now and into the future.

### Sun Fire X4275 Server Specifications

<b>Architecture</b>	
Processor	
Intel Xeon processor 5500 series	
Cache	
<ul style="list-style-type: none"> <li>• Level 1: 32 KB instruction and 32 KB data L1 cache per core</li> <li>• Level 2: 256 KB unified (data and instruction) L2 cache per core</li> <li>• Level 3: 8 MB shared inclusive L3 cache per processor</li> </ul>	
Main Memory	
18 DDR3 DIMM slots (nine DIMM slots per CPU socket); 2GB, 4GB and 8GB DIMMs—for a max. memory of 144 GB	
<b>System Architecture</b>	
Based on Intel Xeon processor 5500 series and Intel 5500 Chipset	
<b>Standard Integrated Interfaces</b>	
<ul style="list-style-type: none"> <li>• Network: Four 10/100/1000Base-T Ethernet ports</li> <li>• Network management: One dedicated 10/100Base-T Ethernet port</li> <li>• Serial management: One RJ-45 port</li> <li>• USB: Three 2.0 USB ports</li> <li>• Expansion bus: Six PCIe 2.0 slots—six x8 electrical/x8 mechanical</li> <li>• One internal CompactFlash slot</li> </ul>	
<b>Software</b>	
Operating System	
<ul style="list-style-type: none"> <li>• Solaris 10</li> <li>• OpenSolaris</li> <li>• Red Hat Enterprise Linux 4 and 5</li> <li>• SUSE Linux Enterprise Server 10 and 11</li> <li>• VMware ESX 3.5, ESXi 3.5; VMWare vSphere 4</li> <li>• Windows Server 2008 Standard/Enterprise/Datacenter editions (32-bit/64-bit)</li> <li>• Windows Server 2003 Standard/Enterprise editions (32-bit/64-bit)</li> </ul>	
<b>Networking</b>	
Four 10/100/1000Base-T Ethernet ports	
<b>Management</b>	
<ul style="list-style-type: none"> <li>• Embedded Integrated Lights Out Manager (iLOM)</li> </ul>	<ul style="list-style-type: none"> <li>• VGA 8 MB: 1,024x768 at 60 Hz</li> <li>• Serial port: One RJ-45 port</li> <li>• Management port: One 10/100 RJ-45 port</li> </ul>
<ul style="list-style-type: none"> <li>• Enables remote power control; remote keyboard, video, mouse (KVM) graphical access; and remote media (DVD, CD, floppy)</li> </ul>	
<ul style="list-style-type: none"> <li>• Secure remote access using Web interface over SSL, or CLI over SSH</li> </ul>	
<ul style="list-style-type: none"> <li>• In-band, out-of-band, and side-band remote management</li> </ul>	
<ul style="list-style-type: none"> <li>• Sun xVM Ops Center software support</li> </ul>	
<ul style="list-style-type: none"> <li>• IPMI 2.0, SNMP v1, v2c, and v3</li> </ul>	

<b>Mass Storage and Media</b>
<ul style="list-style-type: none"> <li>Internal disk option: 12 3.5 in. drive bays that can support SAS or SATA hard disk drives (HDDs), or SATA SSDs</li> <li>Optional RAID levels: 0, 1, 1E, 5, 5EE, 6, 10, 50, 60</li> </ul>
<b>Environment</b>
<ul style="list-style-type: none"> <li>Operating temperature: 5°C to 35°C (41°F to 95°F)</li> <li>Nonoperating temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating relative humidity: 10%–90%, noncondensing</li> <li>Nonoperating relative humidity: Up to 93%, noncondensing</li> <li>Operating altitude: Up to 3,048 m, max. ambient temperature is derated by 1°C per 300 m above 900 m</li> <li>Nonoperating altitude: Up to 12,000 m</li> <li>Acoustic noise: 8.4 B operating, 8.4 B idling—69.8 dBA operating, 67.6 dBA idling</li> </ul>
<b>Power</b>
<ul style="list-style-type: none"> <li>Dual-redundant, hot-swappable power supply</li> <li>Max. output power: 1,050 W</li> <li>Max. AC input current at 100 V AC and 1,050 W output: 12.4 A</li> <li>Power supply efficiency at 1,050 W (100%) load: 85%</li> </ul>
<b>Regulations</b>
<ul style="list-style-type: none"> <li>Safety: IEC 60950-1, UL/CSA 60950-1, EN 60950-1, CB Scheme with all country differences</li> <li>RFI/EMI: FCC CFR 47 Part 15 Class A, EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, EN 300 386</li> <li>Immunity: EN 55024, EN 300 386</li> </ul>
<b>Certifications</b>
<ul style="list-style-type: none"> <li>Safety: UL/cUL, CE, BSMI, GOST-R, S-Mark, CSA C22.2 No. 60950-03</li> <li>EMC: CE, FCC, VCCI, ICES, C-Tick, MIC, GOST-R, BSMI Class A</li> <li>Other: Complies with WEEE Directive (2002/96/EC) and RoHS Directive (2002/95/EC)</li> </ul>
<b>Dimensions and Weight</b>
<ul style="list-style-type: none"> <li>Height: 87.6 mm (3.45 in.)</li> <li>Width: 436.5 mm (17.19 in.)</li> <li>Depth: 762.0 mm (30.0 in.)</li> <li>Weight: 29.54 kg (65 lb.)</li> </ul>
<b>Mounting Option</b>
<ul style="list-style-type: none"> <li>Rackmounting slide rail kit</li> <li>Toolless rackmounting slide rail kit</li> <li>Cable management arm</li> </ul>

### Warranty

Visit [oracle.com/sun/warranty](http://oracle.com/sun/warranty) for Oracle's global warranty support information on Sun products.

### Services

Visit [oracle.com/sun/services](http://oracle.com/sun/services) for information on Oracle's service program offerings for Sun products.

### Contact Us

For more information about Oracle's Sun Fire X4275 server, please visit [oracle.com/sun](http://oracle.com/sun) or call +1.800.786.0404 to speak to an Oracle representative.



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