

Sun Fire™ X4275 Server

Data/media storage and compute engine in a single system



Highlights

- 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 the Solaris™ OS, Linux, Windows, and VMware
- Supported by award-winning SunSpectrum™ services, installation, and data management services
- Try risk-free for 60 days — sign up for a free trial at sun.com/tryandbuy

The 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 Sun'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.

Superior storage at its most cost-effective — that's the bottom line with the Sun Fire X4275 server. It provides 12 TB of raw storage with up to 8 Gb/sec of streaming, offering significant savings in \$/stream¹ 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, 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 Sun experience and innovation to provide your datacenter with superior management, reliability, and serviceability while protecting your IT investment now and into the future.



¹ Based on Sun Fire X4275 server factory-integrated configuration that includes an Intel Xeon processor E5520, 12x 1 TB SATA HDD, 2 GB DDR3, priced at \$11,791. Prices are subject to change.

Sun Fire X4275 Server Specifications

Architecture

Processor

Intel Xeon processor 5500 series

Cache

- Level 1: 32 KB instruction and 32 KB data L1 cache per core
- Level 2: 256 KB unified (data and instruction) L2 cache per core
- Level 3: 8 MB shared inclusive L3 cache per processor

Main memory

18 DDR3 DIMM slots (nine DIMM slots per CPU socket); 2 GB, 4 GB at 1,066 MHz; 4 GB at 1,333 MHz — for a max. memory of 144 GB²

System architecture

Based on Intel Xeon processor 5500 series and Intel 5520 Chipset

Standard integrated interfaces

- Network: Four 10/100/1000Base-T Ethernet ports
- Network management: One dedicated 10/100Base-T Ethernet port
- Serial management: One RJ-45 port
- USB: Three 2.0 USB ports
- Expansion bus: Six PCIe 2.0 slots — six x8 electrical/x8 mechanical
- One internal CompactFlash slot

Software

Operating systems

- Solaris 10 OS 10/08 (64-bit)
- OpenSolaris OS 2008.11
- Red Hat Enterprise Linux 4.7 (32-bit/64-bit)
- Red Hat Enterprise Linux 5.3 (64-bit)
- SUSE Linux Enterprise Server 10 SP2 (64-bit)
- VMware ESX 3.5 Update 4/ESXi 3.5 Update 4
- Windows Server 2003 Standard/Enterprise Editions (32-bit/64-bit)
- Windows Server 2008 Standard/Enterprise/Datacenter Editions (32-bit/64-bit)

² 8 GB DDR3 DIMMs coming soon.



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Networking

Four 10/100/1000Base-T Ethernet ports

Management

- Embedded Integrated Lights Out Manager (iLOM)
 - VGA 8 MB: 1,024x768 at 60 Hz
 - Serial port: One RJ-45 port
 - Management port: One 10/100 RJ-45 port
- Enables remote power control; remote keyboard, video, mouse (KVM) graphical access; and remote media (DVD, CD, floppy)
- Secure remote access using Web interface over SSL, or CLI over SSH
- In-band, out-of-band, and side-band remote management
- Sun xVM Ops Center software support
- IPMI 2.0, SNMP v1, v2c, and v3

Mass storage and media

- Internal disk option: 12 3.5 in. drive bays that can support SAS or SATA hard disk drives (HDDs), or SATA SSDs
- Optional RAID levels: 0, 1, 1E, 5, 5EE, 6, 10, 50, 60

Environment

- Operating temperature: 5° C to 35° C (41° F to 95° F)
- Nonoperating temperature: -40° C to 70° C (-40° F to 158° F)
- Operating relative humidity: 10–90%, noncondensing
- Nonoperating relative humidity: Up to 93%, noncondensing
- Operating altitude: Up to 3,048m, max. ambient temperature is derated by 1° C per 300m above 900m
- Nonoperating altitude: Up to 12,000m
- Acoustic noise: 8.4 B operating, 8.4 B idling — 69.8 dBA operating, 67.6 dBA idling

Learn More

To learn more about the Sun Fire X4275 server, go to: sun.com/x4275.

Power

- Dual-redundant, hot-swappable power supply
- Max. output power: 1,050 W
- Max. AC input current at 100 V AC and 1,050 W output: 12.4 A
- Power supply efficiency at 1,050 W (100%) load: 85%

Regulations

Safety: IEC 60950-1, UL/CSA 60950-1, EN 60950-1, CB Scheme with all country differences

RFI/EMI: FCC CFR 47 Part 15 Class A, EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, EN 300 386

Immunity: EN 55024, EN 300 386

Certifications

Safety: UL/cUL, CE, BSMI, GOST-R, S-Mark, CSA C22.2 No. 60950-03

EMC: CE, FCC, VCCI, ICES, C-Tick, MIC, GOST-R, BSMI Class A

Other: Complies with WEEE Directive (2002/96/EC) and RoHS Directive (2002/95/EC)

Dimensions and weight

Height: 87.6mm (3.45 in.)

Width: 436.5mm (17.19 in.)

Depth: 762.0mm (30.0 in.)

Weight: 29.54 kg (65 lbs.)

Mounting option

- Rackmounting slide rail kit
- Toolless rackmounting slide rail kit
- Cable management arm

Warranty

Three years, next business day

