

Sun Fire™ X4170 Server

Ultimate in enterprise performance for database management or Web applications



Highlights

- Rack-optimized (1U), two-socket, enterprise-class x64 server
- Supports up to two high-performance Intel Xeon processors 5500 series, 18 DIMM slots, and eight disks — for a max. memory of 144 GB¹
- Energy-efficient system design saves on power and cooling
- Easy and simple management and monitoring built into every system — seamlessly integrates into existing infrastructure
- A robust enterprise-class server packing maximal price/performance in a dense 1U form factor, designed for running mission-critical applications
- Choice of virtually any operating system, including the Solaris™ OS, Linux, Windows, and VMware
- Supported by award-winning SunSpectrum™ services, installation, and eco-optimization services
- Try risk-free for 60 days — sign up for a free trial at sun.com/tryandbuy

Your business is under increasing pressure to deliver more services and to support more users with a shrinking IT budget. To help meet those increasing demands, the enterprise-class Sun Fire X4170 server offers optimal price/performance in a compact, space- and energy-efficient 1U form factor. Able to power the most demanding mission-critical back-office applications, this server delivers comparable performance to competing 4U solutions while utilizing three-quarters less space and offering significant reductions in power consumption — all at half the price. The superior density and large memory footprint of this server bring speed, simplicity, and savings to your organization.

Leveraging Intel Xeon processors 5500 series with Hyper-Threading and Turbo Boost technologies, the system offers unparalleled performance with intelligent power management. And with a new and enhanced memory architecture that utilizes Intel's integrated memory controller and their QuickPath Interconnect, as well as the highest memory speeds and a large memory footprint, the Sun Fire X4170 server is also ideally suited for memory-intensive applications.

The system also offers a choice of operating systems, including Windows, Linux, and the Solaris OS, as well as management tools such as Altiris, HP OpenView, IBM Tivoli, and more.² The result: seamless integration with your existing IT infrastructure.

When it's time for you to upgrade your IT infrastructure, choosing the Sun Fire X4170 server to replace aging four-socket systems can help your organization realize immediate savings of 25–50% or more in rack space, as well as in power and cooling expenditures, yielding a direct reduction in operating costs. We provide proven performance with years of demonstrated expertise in system design. As a result, our servers offer built-in enterprise-class RAS features including Integrated Lights Out Manager (iLOM) and hot-swappable, redundant RAID-enabled disks, cooling fans, and power supplies, bringing maximal reliability to keep your most important applications running around the clock. And our Sun Fire X4170 server is designed to scale with you as your business needs grow and change.



¹ 8 GB DDR3 DIMMs coming soon.

² For the latest support, go to: sun.com/systemmanagement/tools.jsp.

Sun Fire X4170 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 GB³

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: Five 2.0 USB ports (two front, two rear, one internal)
- Expansion bus: Three PCIe 2.0 slots — one x16 electrical/x16 mechanical, two 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)

³ 8 GB DDR3 DIMMs coming soon.



Sun Microsystems, Inc. 4150 Network Circle, Santa Clara, CA 95054 USA Phone 1-650-960-1300 or 1-800-555-95UN Web sun.com

© 2009 Sun Microsystems, Inc. All rights reserved. Sun, Sun Microsystems, the Sun logo, Sun Fire, and SunSpectrum are trademarks or registered trademarks of Sun Microsystems, Inc., or its subsidiaries in the United States and other countries. Intel, the Intel logo, Xeon, and Xeon Inside are trademarks of Intel Corporation in the United States and other countries. Information subject to change without notice. SunWIN #555876 Lit. #SYDS14852-0 4/09

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: Up to eight 2.5 in. disk drive bays that can support SAS or SATA hard disk drives, or solid-state drives (SSDs)
- Optical media (DVD ± RW)
- 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 3,000m, max. ambient temperature is derated by 1° C per 300m above 900m
- Nonoperating altitude: Up to 12,000m
- Acoustic noise: 7.6 B operating, 7.6 B idling — 63.1 dBA operating, 60.5 dBA idling

Learn More

To learn more about the Sun Fire X4170 server, go to: sun.com/x4170.

Power

- Dual-redundant, hot-swappable power supply
- Max. output power: 760 W
- Max. AC input current at 100 V AC and 760 W output: 9.0 A
- Power supply efficiency at 760 W (100%) load: 87%

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: 43.43mm (1.71 in.)

Width: 425.5mm (16.75 in.)

Depth: 685.8mm (27.0 in.)

Weight: 16.36 kg (36 lbs.)

Mounting option

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

Warranty

Three years, next business day

