

# Sun Fire™ X4440 Server™

Ultimate performance, scalability, and power efficiency in a two rack-unit



## Highlights

- The highest performance and memory capacity, and twice the networking connectivity
- Hardware and cross-platform virtualization between the Solaris™ OS and Windows — plus VMware support — enable server consolidation and help you save on equipment costs
- Improve power and efficiency with AMD HyperTransport(TM)3 and HyperTransport(TM) assist — and power-efficient components — minimize operational and maintenance costs
- Six-Core AMD Optreron processors ensure high bandwidth for simultaneous 32-bit and 64-bit application multitasking
- Integrated Lights Out Manager (ILOM) makes remote management simple from anywhere in the world
- Redundant, hot-swappable power supplies, fans, and disk drives improve reliability, while making replacement exceedingly simple
- Runs the Solaris, Red Hat Enterprise Linux, SUSE Linux, Windows, and VMware operating systems
- Optional professional services, training, and integrated support to optimize your server implementation



Sun is revolutionizing the industry with a powerful, scalable, energy-efficient server designed to support escalating business and IT growth without increasing operational expenses. The Sun Fire™ X4440 server features blazingly fast AMD Optreron processors, huge storage and memory capacity, numerous connectivity options, and massive room for expansion. This 64-bit, two rack-unit (2U) system delivers the highest performance and scalability in its class, offering a solid foundation for rapidly rising datacenter requirements, while incorporating software tools to streamline administration and advanced features to minimize resource costs.

## The speed and capacity for tomorrow's applications

The Sun Fire X4440 server provides unparalleled speed and system density, plus exceptional connectivity, power-saving, virtualization, and management features, making it an ideal solution for server consolidation, database services, Web 2.0 infrastructure, and high-performance/grid computing. Leveraging its versatility, you can easily run today's 32-bit operations as you implement next-generation 64-bit applications.

The Sun Fire X4440 server is the world's most compact four-socket, x64 platform, capable of housing up to four Six-Core AMD Optreron processors, over 2 TB of internal storage, 256 GB of memory, and twice the network-

ing connectivity in a chassis half the size of competing products. Its superior scalability ensures the server will meet tomorrow's business and IT requirements without the need for additional equipment, while its compact form factor minimizes space requirements.

Sun offers a suite of services to optimize your Sun Fire X4440 server implementation. The combined system and support pricing is often less than the traditional cost of purchasing the items as separate and individual components. Sun can also help you fast track your consolidation and virtualization initiatives with solutions that help reduce IT costs, improve availability and utilization, and simplify infrastructure management.

# Sun Fire X4440 Server Specifications

## Architecture

### Processor

Two or four Six-Core AMD Opteron processors

### Cache

- 6x 512 KB L2 and 6MB L3 for six-core processor
- 3MB L2 and 6MB L3 for six-core processor

### Main memory

32 DDR2 DIMM slots (eight DIMM slots per CPU socket); system supports from 8 GB (4x 2 GB) to 256 GB (32x 8 GB) of memory

## Standard integrated interfaces

- Network: Four 10/100/1000Base-T Ethernet ports
- Network management: One dedicated 10/100Base-T Ethernet port
- Serial management: One TIA/EIA-232-F asynchronous RJ-45 connector
- SAS: Two four-channel SAS interfaces, internal access only
- USB: Five USB 2.0 ports (two front, two rear, one internal)
- Expansion bus: Six MD2 lowprofile PCI Express slots (1x 16-lane, 4x 8-lane, 1x 4-lane)

## Software

### Operating systems

- Solaris 10 OS
- OpenSolaris OS
- Red Hat Enterprise Linux 4
- Red Hat Enterprise Linux 5
- SUSE Linux Enterprise Server 10 (64-bit)
- VMware ESX 3.5
- Windows Server 2003 Standard/Enterprise Editions (32-bit/64-bit)<sup>1</sup>
- Windows Server 2008

### Languages

- C/C++, Fortran
- Java™ programming language
- All other standard Sun-supported languages

## Networking

ONC™, ONC+™, NFS, WebNFS™, TCP/IP, Sun-Link™, OSI, MHS, IPX™/SPX, SMB Technologies, and XML

## Management

- CLI (in-band and out-of-band), IPMI 2.0 (in-band and out-of-band), SNMP (out-of-band only)

## Mass Storage and Media

- Eight hot-swappable 2.5 in. SAS disk drives with optional SAS host bus adapter (HBA)
- 146 GB 10,000 rpm and 300 GB 10,000 rpm 2.5 in. SAS drives supported. 32 GB 2.5" SATA SSD drive supported
- One DVD ± RW drive (PATA based)

## RAID configuration

Add-on RAID 0, 1, 1E, 5, 5EE, 6, 10, 50, 60 with SAS RAID HBA

## 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: 15 kPa
- Acoustic noise:
  - LwAd: At max. ambient, 7 B
  - LpAm bystander: At max. ambient, 56 dB

## Power

- Dual-redundant, hot-swappable power supply
- UL max. input power: 8.2 A rms at 100 V AC
- Power supply output rating: 1,050 W
- AC power: 90-264 V AC (47-63 Hz)

## Learn More

For more information on the Sun Fire X4440 server, go to: [sun.com/x4440](http://sun.com/x4440)

Try risk free for 60 days: Apply for a free trial at [sun.com/tryandbuy](http://sun.com/tryandbuy)

## Regulations

Safety: IEC 60950, UL/CSA 60950, EN 60950, 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, UL DEMKO, CE, BSMI, CCC, GOST-R, S-Mark

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

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

## Dimensions and weight

- Height: 87.85mm (3.46 in.)
- Width: 425.5mm (16.75 in.)
- Depth: 711.2mm (28 in.)
- Weight: 28.6 kg (63 lbs.) min.

## Mounting options

- Rackmount slide rail kit
- Toolless rackmount slide rail kit
- Cable management arm

## Warranty

- Three years, next business day



<sup>1</sup> Supported editions include Windows Server 2003 SP1, R2, SP2, R2 with SP2.

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