

Sun Fire™ X4450 Server

World-class performance, efficiency, and leadership design in half the footprint



Highlights

- World's smallest four-socket x64 server among tier-one vendors
- Supports up to four processors, 32 memory slots, and eight disks in a 2-RU form factor
- Unique, space-efficient system design minimizes power and cooling costs
- Embedded LOM simplifies system management
- Hot-swappable and redundant components make component changeover fast and easy
- Choice of virtually any operating system: the Solaris™ OS, Linux, Windows, VMware
- Ideal for consolidation and virtualization, reducing TCO
- Optional professional services, training, and integrated support to optimize your server implementation

As business needs grow, “server sprawl” — increasing numbers of x86 servers in the datacenter, with spiraling costs for power, administration, and more — grows with it. Now the Sun Fire™ X4450 server prevents server sprawl with its leadership system design that provides the ideal virtualization platform with unmatched energy efficiency and minimized footprint in an easily managed package. This four-socket 2U x64 server supports both the Dual-Core and Quad-Core Intel Xeon processors. It is the perfect choice for virtualization and consolidation, database, and business processing applications.

Delivering performance and up to twice the memory capacity and integrated networking connectivity of rival servers — in half the footprint — the eco-friendly Sun Fire X4450 server can satisfy your computing requirements today and scale to meet your computing needs in the future. The system can expand up to a 16-way configuration, with up to 128 GB of memory and over 1 TB of internal storage.

The Sun Fire X4450 server offers the freedom to run the Solaris, Linux, Windows, or VMware operating systems, helping to prevent vendor lock-in and easing integration with existing IT resources. The enterprise-class server is also designed for availability and reliability, with hot-swappable and

redundant RAID-enabled disks, cooling fans, and power supplies. Combined with the embedded Lights Out Manager, the system is designed to maximize uptime, simplify system management, and reduce administration costs.

Sun offers a suite of services to optimize your Sun Fire X4450 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 X4450 Server Specifications

Architecture

Processor

Quad-Core Intel® Xeon® processor 7300 series or Dual-Core Intel® Xeon® processor 7200 series

Main memory

Up to 128 GB (32 x 4 GB) of PC2-5300 667 MHz ECC fully buffered DDR2 memory

System architecture

Based on Intel Xeon architecture; four-socket Quad-Core (16 cores total)

Standard/integrated interfaces

- Network: four on-board Intel Gigabit Ethernet NICs
- Network management: one 10/100 Mbit Ethernet NIC
- Serial: RJ-45
- SATA: up to six internal SATA disk drives
- USB: five USB 2.0 ports (two front, two rear, one internal)
- Expansion bus: six PCI Express slots (two x8 electrical/x16 mechanical; three x4 electrical/x8 mechanical; and one x4 electrical/x16 mechanical)

Software

Operating systems

- Solaris™ 10 OS U4
- Red Hat Enterprise Linux 4 U4 (AS) (32-bit/64-bit)
- Red Hat Enterprise Linux 5 (32-bit/64-bit)
- SUSE Linux Enterprise Server 10 SP1 (64-bit)
- VMware ESX 3.0.3
- Windows Server 2003 x32 SP2 or greater (Standard Edition/Enterprise Edition)
- Windows Server 2003 x64 or greater (Standard Edition/Enterprise Edition)

Languages

The installation guide, OS installation guide, and product notes set are translated into French, Chinese Traditional, Chinese Simplified, Korean, and Japanese.

The hardware setup guide is translated into Simplified Chinese.

Networking

Four 10/100/1000 Base-T Ethernet ports

Management

Embedded LOM providing: DMTF CLP-based CLI over SSH, Web-based GUI over HTTPS, IPMI 2.0, SNMP v1, v2c, and v3, remote graphical access (remote KVM) over Ethernet and remote storage over Ethernet

Mass storage and media

SAS (up to eight) or SATA (up to six) disk drives, plus DVD-RW

Optional RAID Levels 0, 1, IE, 5, 5EE, 6, 10, 50, 60 with SAS drives

Environment

- Temperature (at sea level):
 - 41° to 95° F (5° to 35° C) operating (with 50/80W CPU)
 - 41° to 88° F (5° to 31° C) operating (with 130W CPU)
 - -40° to 149° F (-40° to 65° C) nonoperating
- Humidity:
 - 7% – 93% RH (noncondensing) operating
 - 93% RH (noncondensing) nonoperating
- Temperature (at altitude):
 - 41° to 88° F (5° to 31° C) operating (with 50/80W CPU)
 - 41° to 81° F (5° to 27° C) operating (with 130W CPU)
 - -40° to 149° F (-40° to 65° C) nonoperating

Learn More

To learn more about the Sun Fire X4450 server, go to: sun.com/x4450

Acoustics

Configuration	LwAd Idle	LwAd Operating
1 GB/2 GB DIMMs	6.8	7.3
4 GB DIMM	7.3	7.3

Power

AC power: 100–120/200–240 V AC, 12/ 6 A, 50–60 Hz

Regulations

Safety: UL/CSA 60950, EN 60950, IEC 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, EN300-386

Immunity: EN55024, EN300-386

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: 425.46mm/16.75 in.

Depth: 711.25mm/28 in.

Weight (maximum): 25.6 kg/56.3 lbs.

Mounting option:

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