

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 24 processor cores, 32 memory slots, and 8 disks in a 2 RU form factor
- Unique, space-efficient system design minimizes power and cooling costs
- Integrated Lights Out Manager (ILOM) 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
- Instantly speed up I/O intensive application performance with Flash technology
- Try risk-free for 60 days—Sign up for a free trial at sun.com/tryandbuy

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, 2 RU x64 server supports the Intel® Xeon® Processor 7400 series and 7200 series. It is the perfect choice for virtualization and consolidation, database, and business processing applications.

Delivering outstanding compute performance, memory capacity, storage bays, and integrated networking connectivity—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 24 processing cores, 256 GB of memory, and over 2 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 ILOM, 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

Intel® Xeon® Processor 7400 series, and Intel® Xeon® Processor 7200 series

Main memory

Up to 256 GB (32 x 8 GB) of PC2-5300 667 MHz ECC fully buffered DDR2 memory

System architecture

Intel® Core™ microarchitecture

Standard/integrated interfaces

- Network: Four on-board Intel GbE NICs
- Network management: One 10/100 MbE NIC
- Serial: RJ-45
- 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 Operating System 10/08 release
- Red Hat Enterprise Linux 4 Update 6 (32-bit/64-bit)
- Red Hat Enterprise Linux 5 (32-bit/64-bit)
- SUSE Linux Enterprise Server 10 SP1 (64-bit)
- VMware ESX 3.5 Update 2
- Windows Server 2003 SP1 (32-bit/64-bit)
- Windows Server 2008 (32-bit/64-bit)

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 10/100/1000Base-T Ethernet ports

Management

- ILOM 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

- Up to six 32 GB SATA solid-state drives (SSD)
- Up to eight SAS disk drives plus DVD-RW
- Optional RAID levels 0, 1, 1E, 5, 5EE, 6, 10, 50, 60 with add-on SAS Host Bus Adapter

Environment

- Operating temperature:
 - 5°C to 35°C (41°F to 95°F) at sea level
 - 5°C to 31°C (41°F to 88°F) at altitude
- Nonoperating temperature:
 - -40°C to 65°C (-40°F to 149°F)
- Acoustic noise:
 - LwAd: 7.3 B (idle and operating, room temp.), 7.7 B (max. ambient)
 - LpAm: 65.8 dBA (bystander position, max. ambient)
- Humidity:
 - 7-93% relative humidity, noncondensing, operating
 - 93% relative humidity, noncondensing, nonoperating

Learn More

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

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, 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: 88 mm (3.49 in.)

Width: 426 mm (16.75 in.)

Depth: 714 mm (28.125 in.)

Weight: 25.6 kg (56.3 lbs.) max.

Mounting option

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