

Sun Fire™ X4250 Server

Industry-leading capacity, high-performance compute platform



Highlights

- Rack-optimized two-socket x64 server
- Ideal platform for storage-, memory-, and I/O-intensive applications
- Supports up to two processors, 16 memory slots, and 16 disks in a 2 RU form factor
- Energy-efficient system design saves on power and cooling
- Easy and simple system management and monitoring built into every system
- Ease of serviceability improves system uptime and reduces service cost
- Choice of virtually any operating system: the Solaris™ OS, Linux, Windows, VMware
- Optional professional services and training and integrated support to optimize your server implementation
- Try risk-free for 60 days — sign up for a free trial at sun.com/tryandbuy

The Sun Fire™ X4250 server offers the highest disk capacity of any server of its kind and is fast, reliable, and energy efficient. The high capacity and expandability of this server make it cost-effective and appealing to Web infrastructure and technical computing applications, as well as large single-app implementations and multi-app consolidations.

The Sun Fire X4250 server is an enterprise-class, two-socket, rackmount x64 system powered by the Intel® Xeon® Processor, either dual-core or quad-core, packing high performance and maximum expansion into a 2 RU footprint.

The Sun Fire X4250 server's outstanding performance reduces development time, speeds time to market, and runs memory- and disk-intensive applications more efficiently, making it especially suited for Web serving, database, and storage-intensive applications. Coupled with its unmatched expandability and disk capacity, this server is ideal for applications requiring large memory footprints, disk capacity, and I/O capacity.

With built-in enterprise-class RAS features, including Integrated Lights Out Manager (ILOM) and hot-swappable and redundant RAID-enabled disks, cooling fans, and power

supplies, the Sun Fire X4250 server maximizes uptime and simplifies system management, resulting in reduced administration costs. This server also offers superior flexibility — you can choose to run the Solaris, Linux, Windows, or VMware operating systems. The simple system management, designed-in serviceability, efficient power and cooling design, and flexibility to run a broad range of applications make it the obvious choice to integrate with new or existing datacenter resources.

Sun offers a suite of services to optimize your Sun Fire X4250 server implementation. SunSpectrum™ Support focuses on delivering proven expertise and responsive, consistent service quality, to help you achieve high availability within your IT infrastructures. Sun can also help you architect, deploy, and manage your IT initiatives for faster time to deployment and with reduced risk.



Sun Fire X4250 Server Specifications

Architecture

Processor

Intel® Xeon® Processor 5400 series
Intel® Xeon® Processor 5200 series

Main memory

Up to 64 GB (16 x 4 GB) of PC2-5300 667 MHz
ECC fully buffered DDR2 memory

System architecture

Based on Intel Xeon architecture, two-socket,
quad-core (eight cores total)

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 (x8 electrical/x8 mechanical)

Software

Operating systems

- Solaris™ 10 Operating System
- Red Hat Enterprise Linux
- SUSE Linux Enterprise Server
- VMware ESX Server
- Windows Server 2003 (Standard/Enterprise Editions)
- Windows Server 2008 (Standard/Enterprise Editions)

Networking

Four 10/100/1000 Base-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

- SAS (up to 16) disk drives, plus DVD-RW
- Optional RAID levels 0, 1, 1E, 5, 5EE, 6, 10, 50, 60 with SAS drives

Environment

- Operating temperature: 5° C to 35° C (41° F to 95° F) at sea level
- Nonoperating temperature: -40° C to 70° C (-40° to 158° F)
- Operating altitude: 3,048m (10,000 ft.) at 31° C sea level/35° C
- Nonoperating altitude: 12,192m (40,000 ft.)/15 kPa
- Acoustic noise: 60 dBA idle, 70 dBA operating
- Humidity:
 - 10–90% relative humidity, noncondensing, operating
 - 93% relative humidity, noncondensing, nonoperating

Power

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

Learn More

To learn more about the Sun Fire X4250 server, go to: sun.com/x4250.

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: 87.85mm (3.46 in.)

Width: 445.71mm (17.55 in.)

Depth: 733.65mm (28.88 in.)

Weight: 25.6 kg (56.3 lbs.) max.

Mounting options:

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