

## Sun Fire™ X2250 Server

Designed for demanding High Performance Computing (HPC) and Web 2.0 workloads



### Highlights

- Rack-optimized two-socket x64 server
- Ideal platform for memory-intensive high-performance computing, financial modeling, and Web infrastructure deployments
- Run compute-intensive applications up to 20 percent faster with 1,600 MHz front side bus (FSB)
- Perform data-intensive analysis with a large, fast, and reliable memory footprint
- Choice of the Solaris™, Linux, or Windows operating systems
- Ease of serviceability improves system uptime and helps reduce service costs
- Try risk-free for 60 days — sign up for a free trial at [sun.com/tryandbuy](http://sun.com/tryandbuy)

Designed to benefit organizations that have demanding technical computing workloads, the Sun Fire™ X2250 server offers a powerful compute node at a low entry price. The high performance, large memory capacity, and comprehensive remote management capability of the Sun Fire X2250 server make it an ideal platform for large-scale HPC and Web infrastructure deployments involving hundreds or thousands of systems.

The Sun Fire X2250 server demonstrates Sun's commitment to delivering one of the most compelling HPC systems — powered by the Intel® Xeon® Processor, either dual-core or quad-core, in a compact 1 RU form factor.

The Sun Fire X2250 server supports leading operating systems and applications, and has the fastest processor speed grades and memory available. This is the first server from Sun using the 1,600 MHz FSB version of the Intel Xeon Processor 5400 series, which is up to 20 percent faster than the previous processor series used in competitive servers. This faster processor series helps you achieve greater efficiencies in your datacenter.

Whether you're running compute- or data-intensive applications, you can deploy with confidence using the Sun Fire X2250 server, because its outstanding performance can help you reduce development time and time to market. It is also compatible with all leading operating systems, is certified by many ISVs, and its service is backed by the global Sun™ Services organization. Above all, this system meets or exceeds the buying criteria of the discerning server buyer, at a price/performance ratio not previously available from Sun. "Entry-level" only from a pricing perspective, the Sun Fire X2250 server is inherently worthy of your most demanding projects.



## Sun Fire X2250 Server Specifications

### Architecture

#### Processor

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

Eight cores: Two Intel Xeon Processors 5400 series at 3.16 GHz, 3.00 GHz, 2.8 GHz, or 2.0 GHz

Four cores: Two Intel Xeon Processors 5200 series at 3.4 GHz

Low-power eight cores: Two 50 W Intel Xeon Processors 5400 series at 2.5 GHz

Independent 1,600 MHz FSB per CPU

12 MB L2 (8 MB for dual-core)

#### Main memory

Up to 32 GB of 800 MHz ECC FB-DIMM or 667 MHz ECC FB-DIMM

### Standard/integrated interfaces

#### Network

- Network: Two on-board Intel GbE NICs
- Network management: One 10/100 MbE NIC
- Serial: RJ-45
- SATA: Up to two hot-pluggable SATA bays, 2 TB max.
- USB: Five USB 2.0 ports (two front, two rear, one internal)
- Expansion bus: One PCIe slot (x16 electrical/x16 mechanical), half-length, half-height

### Software

#### Operating systems

- Solaris™ 10 OS
- Red Hat Enterprise Linux
- SUSE Linux Enterprise Server
- Windows 2003 (32-bit) SP2 or greater (Web/Standard/Enterprise Editions)
- Windows 2003 (64-bit) (Standard/Enterprise Editions)

### Networking

Two 10/100/1000 Base-T Ethernet ports

### Management

- Standard IPMI 2.0-compliant service processor with ILOM
- Remote KVM (keyboard, video, mouse), remote media (DVD, CD, floppy), and graphics
- Secure remote access using Web interface over SSL, or CLI over SSH
- Sun xVM Ops Center software support
- SNMP v1, v2c, and v3

### Mass storage and media

- Up to two internal 3.5 in. SATA disk drives
- 1 TB, 500 GB, 250 GB (7,200 rpm)
- RAID 0/1 built into Intel Xeon Processor 5400 chipset
- Optional JBODs, RAID arrays, tapes, and host bus adapters (HBAs)
- One slim DVD-RW or DVD-ROM drive

### Environment

- Operating temperature: 5° to 35° C (41° to 95° F) at sea level
- Nonoperating temperature: -40° to 68° C (-40° to 154° F)
- Operating altitude: up to 3,000m (≈9,000 ft.), maximum ambient temperature is derated by 1° C per 300m above 900m
- Nonoperating altitude: up to 12,000m (≈36,000 ft.)
- Acoustic noise: 69 dBA idle, 72 dBA operating (declared noise emissions in accordance with ISO 9296 A-weighted, sound power)
- Humidity: Up to 93% relative humidity, noncondensing, 38° C max. wet bulb
- LwAd: (1 B = 10 dB) at or below 25° C

### Learn More

To learn more about the Sun Fire X2250 server, go to: [sun.com/x2250](http://sun.com/x2250).

### Power

Single nonredundant power supply; maximum power supply rating 500 W at >80% efficiency

AC power: 100–240 V AC, 47–63 Hz

### 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 300 386 v1.3.3, EN 55022 Class A, EN 61000-3-2, EN 61000-3-3

Immunity: EN 55024, EN 300 386 v1.3.3

### Certifications

Safety: CE, CB Scheme, UL, CSA, CCC, BSMI, AR-S, GOST-R

EMC: CE, FCC, VCCI, ICES, BSMI, CCC, MIC, C-Tick, AR-S, GOST-R

Other: RoHS-compliant labeled, per WEEE (Waste Electrical and Electronics Equipment) Directive (2002/95/EC)

### Dimensions and weight

Height: 44mm (1.75 in.)

Width: 425.5mm (16.75 in.)

Depth: 633.7mm (25.4 in.)

Weight: 9.8 kg (21.7 lbs.) min.  
13.3 kg (27.2 lbs.) max.

### Mounting option

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