

Sun Fire™ X2270 Server

Ideal for Web applications and commercial high-performance computing



Highlights

- Rack-optimized (1U), two-socket x64 server
- Best price/performance in its class with Sun Flash Modules and solid-state disks (SSDs)¹
- Accelerates floating-point calculations for compute-intensive applications
- Up to 12 memory slots make it ideal for memory-intensive applications such as electronic design automation (EDA) simulations or financial modeling
- Choice of the Solaris™, Linux, VMware, or Windows operating systems
- Supported by award-winning SunSpectrum™ services, installation, Web infrastructure, and high-performance computing (HPC) services
- Try risk-free for 60 days — sign up for a free trial at sun.com/tryandbuy

¹ Available in the near future.

The Sun Fire X2270's open network system design was built to protect and optimize Web architectures and commercial HPC environments with unequalled performance, scalability, and eco-efficiency. As a product leader in breakthrough speed as well as energy and space savings, the Sun Fire X2270 server offers 3x the performance at 66% the energy of current-generation systems and up to 50% savings in datacenter real estate.

The Sun Fire X2270 server demonstrates Sun's commitment to innovation and design, with the most compact server in its class (1.75 in. high) for Web application hosting and HPC. The high performance, large memory capacity, and comprehensive remote management capability of the server make it ideal for large-scale HPC/grid computing and compute-intensive Web applications.

With an innovative design and compact form factor, the Sun Fire X2270 server supports leading operating systems and applications, solid-state storage, the fastest processor speed grades available, and a fast and reliable memory footprint. The blazingly fast Intel Xeon processors combined with Sun Flash Modules and SSDs bring improved efficiencies to your datacenter while increasing performance.

In an economic downturn, organizations are looking for better ways to make their datacenter more efficient. The Sun Fire X2270

server helps customers gain a competitive advantage with high performance, low cost, and increased energy efficiency. Its unique system design takes full advantage of the Intel Xeon processor 5500 series to give you the best price/performance; unmatched space, power, and cooling advantages; a simplified management architecture; and the scalability to accommodate future business needs.

Whether you're running compute- or data-intensive applications, you can deploy with confidence using the Sun Fire X2270 server, because its outstanding performance can help you reduce development time and time to market. You can also help protect your server investment with world-class services from Sun, including installation, SunSpectrum service plans, and offerings designed to streamline your Web and HPC infrastructure deployments.

Sun Fire X2270 Server Specifications

Architecture

Processor

Two Intel Xeon processors 5500 series

Cache

- Level 1: 32 KB instruction and 32 KB data L1 cache per core
- Level 2: 256 KB unified (data and instruction) L2 cache per core
- Level 3: 4 MB or 8 MB shared inclusive L3 cache per processor

Main memory

12 DDR3 DIMM slots (six DIMM slots per CPU socket); system supports from 2 GB (1x 2 GB to 96 GB (12x 8 GB) of memory²

System architecture

Based on Intel Xeon processor 5500 series and Intel 5500 Chipset

Standard/integrated interfaces

- Network: Two 10/100/1000Base-T Ethernet ports
- Serial: One RJ-45 port
- USB: Five USB 2.0 ports (two front, two rear, one internal)
- Expansion bus: One PCIe 2.0 slot (x16 electrical/x16 mechanical, low-profile)

Software

Operating systems

- Solaris 10 OS
- OpenSolaris™ OS
- Red Hat Enterprise Linux 4
- Red Hat Enterprise Linux 5
- SUSE Linux Enterprise Server 10
- VMware ESX 3.5
- Windows Server 2003 Standard/Enterprise Editions
- Windows Server 2008 Standard/Enterprise Editions
- Windows Server 2008 Standard/Enterprise/Datacenter Editions



Networking

Two GbE ports integrated on motherboard

Management

- Optional Sun Integrated Lights Out Manager (ILOM) service processor module
 - VGA 8 MB: 1,024x768 at 60 Hz
 - Management port: One 10/100 RJ-45 port
- Enables remote power control; remote keyboard, video, mouse (KVM) graphical access; and remote media (DVD, CD, floppy)
- Secure remote access using Web interface over SSL, or CLI over SSH
- Sun™ xVM Ops Center software support
- IPMI 2.0, SNMP v1, v2c, and v3
- In-band, out-of-band, and side-band remote management

Mass storage and media

Internal disk option

- Up to four hot-pluggable 3.5 in. SATA disk drives, 4 TB max.: 1 TB, 500 GB (7,200 rpm)
- Up to four hot-pluggable solid-state drives (SSDs), 128 GB max.: 32 GB³
- Up to two Sun Flash Modules, 48 GB max.: 24 GB³

Environment

- Operating temperature: 5° C to 35° C (41° to 95° F) at sea level
- Nonoperating temperature: -40° C to 68° C (-40° to 154° F)
- Operating relative humidity: up to 93%, noncondensing, 38° C max. wet bulb
- Nonoperating relative humidity: Up to 93%, noncondensing
- Operating altitude: Up to 3,000m (9,000 ft.), max. ambient temperature is derated by 1° C per 300m above 900m
- Nonoperating altitude: 10,000m (35,000 ft.)
- Acoustic noise: 7.5 B operating, 7 B idling — 70 dBA operating, 60 dBA idle (declared noise emissions in accordance with ISO 9296 A-weighted, sound power)

Learn More

To learn more about the Sun Fire X2270 server, go to: sun.com/x2270.

Power

- Single nonredundant power supply; max. power supply rating 600 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: 43mm (1.7 in.)

Width: 436mm (17.2 in.)

Depth: 650mm (25.6 in.)

Weight: 9.8 kg (21.7 lbs.) min.

Weight: 13.9 kg (30.6 lbs.) max.

Mounting option

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

Warranty

One year, next business day

² 8 GB DDR3 DIMMs available in the near future.

³ Available in the near future.