



Sun Fire™ X4200 M2 Server

Fast, reliable, expandable
one- to eight-way x64 server



Highlights

- Rack-optimized, high-performance servers — able to accept the fastest Dual-Core or Quad-Core AMD Opteron processors
- Raises the bar for industry-standard servers:
 - Enterprise-class RAS features for maximum uptime
 - Four integrated GbE ports for maximum network expandability
- More energy-efficient than rival servers — significant power and cooling savings
- PCI-X and PCI Express (PCIe) I/O expandability for connectivity to multiple devices — leading to higher throughput
- Application consolidation platform — runs Solaris™ Containers and VMware, supports Sun™ Cluster
- Provision, monitor, and manage with the recommended Sun N1™ System Manager software
- Try risk-free for 60 days. Sign up for a free trial at sun.com/tryandbuy



Sun is enhancing its leadership position in x64 (x86/64-bit) computing with the fast and reliable Sun Fire™ X4200 M2 server — an energy-efficient one- to eight-way x64 server that runs the Solaris™, Linux, Windows, and VMware operating systems.

The Sun Fire X4200 M2 server is a key component in standardizing your infrastructure, helping to reduce total cost of ownership (TCO), simplifying datacenter management, and achieving industry-leading performance. The server is powered by up to two Dual- or Quad-Core AMD Opteron processors. It comes preinstalled with the Solaris OS and Sun Java™ Enterprise System software.

Designed from the ground up to facilitate system management, the Sun Fire X4200 M2 server architecture provides Integrated Lights Out Manager (iLOM) and state-of-the-art remote automation that integrates at the datacenter level. With zero-touch capabilities managed through a variety of interface options, the server's architecture simplifies installation, deployment, and maintenance.

The Sun Fire X4200 M2 server runs 32-bit and 64-bit applications and delivers 100 percent industry-standard x64 computing. With

expandable I/O features, the server is an ideal building block for application consolidation, network services, compute services, or infrastructure services — or as a database, security, or application server. For customers with application consolidation needs, the Sun Fire X4200 M2 server supports Sun Cluster technology. In addition, it runs Solaris Containers™ and VMware to safely consolidate and protect multiple applications running on a single server.

The Sun Fire X4200 M2 server is qualified to work with Sun's comprehensive portfolio of software, storage, and network switches. The Sun™ Customer Ready systems program offers integration and testing. Customers can order racks of preconfigured servers with software, storage, and switches. Sun's partners can also provide industry-specific expertise and deployment services.

Sun Fire X4200 M2 Server Specifications

Architecture

Processor

Up to two Next-Generation AMD Opteron 2000 Series processors, 1 MB Level 2 cache per core

Main memory

Four DIMM slots per CPU socket, DDR2/667 ECC Registered DIMMs (128-bit plus ECC data-bus), total eight DIMM slots, up to 16 GB per CPU

System architecture

Three 8.0 GB/sec. HyperTransport links per processor and 10.7 GB/sec. access between each processor and memory

Standard/integrated interfaces

Network

- Four 10/100/1000 Base-T Ethernet ports

Network management

- One dedicated 10/100 Base-T Ethernet port

Serial

- One TIA/EIA-232-F asynchronous RJ45 port

SAS

- Four-channel SAS interface, internal access only

USB

- Two USB 2.0 ports (front), two USB 2.0 ports (rear)

Expansion bus

- Four internal low-profile eight-lane PCIe slots and one internal MD2 low-profile 64-bit 133 MHz PCI-X slot

Software

Operating systems

- Solaris 10 OS, 64-bit
- Red Hat Enterprise Linux
- SUSE Linux Enterprise Server, 64-bit
- Windows Server 2003, Standard Edition, 32-bit/64-bit
- Windows Server 2003, Enterprise Edition, 32-bit/64-bit
- VMware ESX Server

Sun Java Enterprise Services



- Solaris 10 OS
- Standard Linux distributions

Languages

- C/C++, FORTRAN (Solaris OS on x64)
- Java™ programming language
- All other standard Sun-supported languages

Networking

ONC™, ONC+™, NFS, WebNFS™, TCP/IP, SunLink™, OSI, MHS, IPX™/SPX, SMB technologies, and XML

Management

ILOM service processor providing: DMTF CLP-based CLI over SSH, Web-based GUI over HTTPS/HTTP, IPMI 2.0, SNMP V1, v2c and v3, remote graphical access over Ethernet and remote storage over Ethernet

- Sun N1 System Manager — discovering, grouping, bare metal provisioning, hardware monitoring, OS monitoring

Mass storage and media

Hot-swappable, 2.5 in. SAS internal disks, RAID 0, 1 on-board, up to four HDDs with DVD-ROM/CD-RW

Environment

AC power

100–240 V AC (50–60 Hz):

- HE PSU: 7.2 A at 100 V AC, 3.2 A at 200 V AC
- STD PSU: 8.0 A at 100 V AC, 3.4 A at 200 V AC

DC power

-48 V DC or -60 V DC (12.7 A at -48 V DC or 10.2 A at -60 V DC)

Operating temperature (single, nonrack system)

- 5° C to 35° C (41° F to 95° F)
- 10–90% relative humidity
- Noncondensing, 27° C max. wet bulb

Nonoperating temperature (single, nonrack system)

- -40° C to 65° C (-40° F to 149° F)
- Up to 93% relative humidity
- Noncondensing, 38° C max. wet bulb

Operating altitude (single, nonrack system)

Up to 3,048m, maximum ambient temperature is derated by 1° C per 300m above 900m

Nonoperating altitude (single, nonrack system)

Up to 12,000m

Learn More

To learn more about the Sun Fire X4200 M2 server, go to: sun.com/x4200.

Acoustic noise (single, nonrack system)

- LwAd (1 B = 10 dB): 8.0 B at or below 25° C, 8.4 B at max. ambient
- LpAm bystander: 64 dB at or below 25° C, 69 dB at max. ambient

Power

- Dual redundant, hot-swappable power supplies
- Maximum DC output: 550 W

Regulations (Meets or exceeds the following requirements)

Safety

IEC60950, UL/CSA60950, EN60950, CB Scheme with all country differences

RFI/EMI

FCC Class A, Part 15 47 CFR, EN55022, CISPR 22, EN300-386: v1.31, ICES-003

Immunity

EN55024, EN300-386:v1.3.2

Certifications

Safety

cULus Mark, TUV GS Mark, CE Mark, CCC, GOST-R, S-Mark

EMC

CE Mark (93/68/EEC), Emissions and Immunity Class A Emissions Levels: FCC, VCCI, C-Tick, MIC, CCC, GOST-R, BSMI

Other

Labeled per WEEE (Waste Electrical and Electronic Equipment) Directive

Dimensions and weight

Height	87.6mm (3.44 in.)
Width	445mm (17.5 in.)
Depth	632mm (24.8 in.)
Weight (with rack kit)	25.5 kg (56.2 lbs.) max.

Mounting option

19-inch rackmount kit