

Sun Fire™ X4240 Server™

Exceptional speed, capacity, and power efficiency in a two rack-unit system



Highlights

- The highest performance and up to twice the memory capacity, storage capacity, and networking connectivity of any system in its class enables companies to stay ahead of future growth
- Designed for the Six-Core AMD Opteron™ processors, offering record-breaking speed for high-performance computing (HPC)/ grid computing and Web infrastructure as well as manufacturing, research, science, and business environments
- Integrated Lights Out Manager (ILOM) makes system-wide management incredibly simple from anywhere in the world
- Flexible system design enables easy expansion of hard drive, memory, and CPU resources, helping customers to meet today's business needs and tomorrow's business growth
- Runs the Solaris™, Red Hat Enterprise Linux, SUSE Linux, Windows™, and VMware operating systems
- Improves power and efficiency with AMD HyperTransport(TM)3 and HyperTransport(TM) assist — and more power-efficient components



The Sun Fire™ X4240 server enables companies to stay ahead of the growth in data-center requirements, reduce management complexity, and keep resource costs from escalating out of control. This powerful 64-bit, two rack-unit (2U) system leverages industry-leading AMD Opteron™ processors, massive storage and memory, a wide array of connectivity options, and superior expandability to provide the fastest, most scalable server in its class.

Powerful, expandable system designed for business growth

Today's datacenter managers are under constant pressure to increase server performance for more users, customers, and new compute-intensive applications, while finding ways to conserve costs for equipment, power, cooling, and real estate. The Sun Fire X4240 server is designed to address these challenges, offering record-breaking speed, exceptional system density and connectivity, advanced power and cooling efficiency, and simple-to-use integrated system management. The server's massive hard drive and memory capacity, Six-Core AMD Opteron processors, superior expandability, and support for virtualization make it an ideal workhorse for HPC/grid computing and

server consolidation initiatives, as well as for any large-scale manufacturing, research, science, Web, or business environment. Designed to ensure maximal investment protection, the Sun Fire X4240 server is expandable — to twelve cores in a 2U system. ILOM — coupled with the Sun xVM™ Ops Center and Sun xVM™ Server — enables easy, effective administration, service, and support as well as high levels of management automation. Optimize your Sun Fire X4240 server implementation with SunSpectrumSM Support, which delivers proven expertise to help you achieve high availability within your IT infrastructures. Sun can also help you architect, deploy, and manage your IT initiatives.

Sun Fire X4240 Server Specifications

Architecture

Processor

One or two Six-Core AMD Opteron processors

Cache

- 6x 512 KB L2 and 6MB L3 for six-core processor
- 3MB L2 and 6MB L3 for six-core processor

Main memory

16 DDR2 DIMM slots (eight DIMM slots per CPU socket); system supports from 4 GB (2x 2 GB) to 128 GB (16x 8 GB) of memory

Standard integrated interfaces

- Network: Four 10/100/1000Base-T Ethernet ports
- Network management: One dedicated 10/100Base-T Ethernet port
- Serial management: One TIA/EIA-232-F asynchronous RJ-45 connector
- USB: Five USB 2.0 ports (two front, two rear, one internal)
- Expansion bus: Six internal MD2 low profile PCI Express slots (1x 16-lane, 4x 8-lane, 1x 4-lane)

Software

Operating systems

- Solaris 10 OS
- OpenSolaris OS
- Red Hat Enterprise Linux 4
- Red Hat Enterprise Linux 5
- SUSE Linux Enterprise Server 10 (64-bit)
- VMware ESX 3.5
- Windows Server 2003 Standard/Enterprise Editions (32-bit/64-bit)¹
- Windows Server 2008

Languages

- C/C++, Fortran
- Java™ programming language
- All other standard Sun-supported languages

Networking

ONC™, ONC+™, NFS, WebNFS™, TCP/IP, Sun-Link™, OSI, MHS, IPX™/SPX, SMB Technologies, and XML

Management

- CLI (in-band and out-of-band), IPMI 2.0 (in-band and out-of-band), SNMP (out-of-band only)
- ILOM with dedicated 10/100Base-T Ethernet port

Mass Storage and Media

- Hot-swappable 2.5 in. internal disk; up to 16 SAS disk drives with add-on SAS host bus adapter (HBA)
- 146 GB 10,000 rpm and 300 GB 10,000 rpm 2.5 in. SAS drives supported. 32 GB 2.5" SATA SSD drive supported
- One DVD ± RW drive (PATA based)

RAID configuration

Add-on RAID 0, 1, 1E, 5, 5EE, 6, 10, 50, 60 with SAS RAID HBA

Environment

- Operating temperature: 5° C to 35° C (41° F to 95° F)
- Nonoperating temperature: -40° C to 65° C (-40° F to 149° F)
- Operating relative humidity: 10–90%, noncondensing
- Nonoperating relative humidity: Up to 93%, noncondensing
- Operating altitude: Up to 3,000m, max ambient temperature is derated by 1° C per 300m above 900m
- Nonoperating altitude: Up to 12,000m
- Acoustic noise:
 - LwAd: At max. ambient, 6.8 B
 - LpAm bystander: At max. ambient, 51 dB

Power

- Dual-redundant, hot-swappable power supply
- UL max. input power: 12 A rms at 100 V AC
- Power supply output rating: 1,050 W
- AC power: 100–120 V/200–240 V AC (50/60 Hz)

Learn More

For more information on the Sun Fire X4240 server, go to: sun.com/x4240

Try risk free for 60 days: Apply for a free trial at sun.com/tryandbuy

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 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: 88mm (3.49 in.)
- Width: 426mm (16.75 in.)
- Depth: 714mm (28.125 in.)
- Weight: 20.65 kg (45.52 lbs.) min. 25.75 kg (56.77 lbs.) max.

Mounting options

- Rackmount slide rail kit
- Toolless rackmount slide rail kit
- Cable management arm

Warranty

- Three years, next business day



¹ Supported editions include Windows Server 2003 SP1, R2, SP2, R2 with SP2.

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