Sun Fire™ X2200 M2 Server
Superior price/performance
for high-scale architectures

Highlights

- Exceptional performance — supports highly scalable dual- and quad-core AMD Opteron™ processors

- Superior capacity — with 16 memory slots, provides up to twice the memory of other entry 1 RU rack-optimized servers

- Ideal for memory-intensive high-performance computing, modeling, and Web application environments

- Leading expandability for network connectivity and attached storage devices — two PCI Express slots and four Ethernet ports

- Simplified remote management with embedded lights-out management

- Comprehensive system management with Sun xVM Ops Center software

- Choice of virtually any operating system: the Solaris™ OS, Linux, Windows, VMware*

- Upgrade existing dual-core systems to quad-core performance with cost-effective Quad-Core Upgrade Kits

- Try risk-free for 60 days — sun.com/tryandbuy

*VMware ESX support for quad-core systems coming soon.

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The Sun Fire™ X2200 M2 server, with the highly scalable quad-core AMD Opteron processor and up to twice the memory capacity of industry-standard servers, is ideal for high-scale Web application architectures, and for HPC, financial service, or design clusters running simulations and modeling with large data sets. It is a top choice for businesses looking for outstanding performance, scalability, and manageability of memory-intensive applications on a budget.

Performance and a whole lot more

The Sun Fire X2200 M2 server delivers outstanding scalability and price/performance for high-performance computing and high-scale Web application architectures. The Balanced Smart Cache, Wide Floating-Point Accelerator, and Memory Optimizer Technology features of quad-core AMD Opteron processors coupled with industry-leading memory capacity of the Sun Fire X2200 M2 server enable superior performance of memory-intensive, high-performance computing applications — such as Abacus, Fluent, or PowerFLOW — and of the memory-caching tier of high-scale Web services.

Flexibility

The Sun Fire X2200 M2 server runs 32-bit and 64-bit applications, delivering industry-standard x64 computing. It also runs virtually any operating system, including the Solaris OS, Linux, Windows, and VMware*.

Scalability

The Sun Fire X2200 M2 server offers the economies of scale of x64 computing. The server is ideal for leveraging multiple low-priced servers for high availability.

Manageability

The Sun Fire X2200 M2 server eases system management. Embedded lights-out management enables remote and centralized system management while maximizing availability. Sun xVM Ops Center software helps simplify datacenter management, system configuration, and lifecycle management as well as software provisioning and updates.

Sun Fire X2200 M2 Server Specifications

Processor
- Up to two dual- or quad-core AMD Opteron 2000 Series processors

Main memory
- Up to 64 GB (16x 4 GB) of DDR2 667 MHz registered ECC memory
- System configurations from 2 GB to 64 GB

System architecture
- Based on AMD Opteron 2000 Series architecture
- Two-socket dual- or quad-core system — up to eight cores total

Standard/integrated interfaces
- Network: Four 10/100/1000 Base-T Ethernet ports
- Network Management: One 10/100/1000 Base-T Gigabit Ethernet port through shared access to one of the four system Ethernet ports
- Serial: One DB9 port
- SATA: Two-channel SATA II interface, internal only
- USB: Six USB 2.0 ports (two front and four rear)

Expansion bus
Riser card assembly with option of:
- 2x internal 8-lane PCI Express slots, or
- 1x internal 16-lane PCI Express slot

Software
Supported operating systems:

Dual-core processors
- Solaris 10 OS U5 — x64
- Red Hat Enterprise Linux 3, U8
- Red Hat Enterprise Linux 4, U4 and up
- Red Hat Enterprise Linux 5
- SUSE Linux Enterprise Server 9, SP3 and up
- SUSE Linux Enterprise Server 10
- Windows Server 2003, Enterprise and Standard Editions, SP1
- VMware ESX 3.0.2

Coming soon:
- Windows Server 2008 — Datacenter, Enterprise, and Standard Editions
- VMware ESX 3.5 U1

Quad-core processors
- Solaris 10 OS U5 — x64
- Red Hat Enterprise Linux 4, U5
- Red Hat Enterprise Linux 5 U1
- SUSE Linux Enterprise Server 10, SP1
- Windows Server 2003, Enterprise and Standard Editions, SP1

Coming soon:
- SUSE Linux Enterprise Server 9, SP4
- Windows Server 2008 — Datacenter, Enterprise, and Standard Editions
- VMware ESX 3.5 U1
- VMware ESX 3.0.2

Management
- Standard IMPI 2.0-compliant service processor with embedded lights-out management
- Enables remote power control, 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

Internal disk
- Up to two hot-pluggable 3.5 in. SATA II or SAS internal disk drives
- 250 GB, 500 GB, 750 GB, and 1 TB 7,200 rpm SATA II drives supported
- 146 GB, 300 GB 15,000 rpm SAS drives supported with optional HBA
- RAID 0/1 support for SATA or SAS drives with optional HBA

Internal DVD
Up to one tray-load DVD-ROM or DVD+/-RW optical drive

Environmental

Nonoperating temperature (single nonrack system)
- -40° C to 68° C (-40° F to 154° F)
- Up to 93% relative humidity
- Noncondensing, 38° C max. wet bulb

Altitude
- Operating: Up to 3,000m/9,000 ft., maximum ambient temperature is derated by 1° C per 300m above 900m
- Nonoperating: Up to 12,000m

Acoustic noise (single nonrack system)
Declared noise emissions in accordance with ISO 9296 A-weighted, sound power: LwAd (1 B = 10 dB) at or below 25° C 6.9 B (A) idle, 7.2 B (A) operating

Power
- Single, 450 W, power supply
- AC input: 100–240 V AC (47–63 Hz)
- Max. power supply rating: 450 W

Regulations (meets or exceeds the following)
Safety: IEC 60950, UL/CSA 60950, 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: CE Mark, GOST, GS Mark, cULus Mark, CB Scheme, CCC, S Mark

EMC: CE Mark, GOST, ETSI, FCC, DOC, BSMI, C-Tick, MIC, CCC, S Mark

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

Dimensions and weight
- Height: 43mm (1.7 in.)
- Width: 425.5mm (16.8 in.)
- Depth: 633.7mm (25.0 in.)
- Maximum weight: 11.60 kg (24.6 lbs.)
- Minimum weight: 9.46 kg (20.8 lbs.)

Customer-specific system integration
Custom server configuration, racking/cabling, operating system, and software load/configure/install available through the Sun CRS Program