Sun Fire™ X2200 M2 Server

World-class Performance and Efficiency

Highlights

- Up to twice the memory capacity and network connectivity among two to four-way 1RU x64 servers

- With multiple world-record performances and up to 28 percent lower consumption than Xeon-based servers

- Operating system flexibility— runs virtually any operating system including the Solaris OS, Linux, Windows, and VMware

- Reduce costs with large memory footprint, compact form factor, low energy consumption, easy system management of Sun's x64 systems with Sun's N1™ System Manager— from bare-metal discovery through configuration, power manage-ment, provisioning, patching

- Embedded Lights Out Manager (LOM) simplifies data center management through remote power control, media manage-ment, and monitoring key hard-ware components

> The Sun Fire™ X2200 server has multiple world-record performance benchmarks and twice the memory capacity of industry-standard servers, and is ideal for running simulations and numerical modeling with large data sets. It is a top choice for busi-nesses looking for performance, manageability, and energy and space efficiency on a budget.

Performance and a whole lot more

The Sun Fire X2200 server is the highest-per-forming four-way x64 server optimized for energy and space efficiency. Its design incor-porates high-performance, low-latency HyperTransport technology, high-speed DDR2 memory, and the new industry-standard PCI-Express interconnect. With up to twice the memory capacity of other servers in its class, it enables users to do more with less—carry out heavy workloads or process large data sets. The Sun Fire X2200 server is the perfect choice for high-performance computing, Web serv-ices, and server consolidation.

Flexibility

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

Scalability

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

Manageability

The Sun Fire X2200 server also eases system management. Embedded Lights Out Manager enables remote and centralized system management while maximizing availability, and can also be integrated with N1 System Manager or existing management environ-ments. It simplifies data center management, system configuration, and lifecycle manage-ment, as well as software provisioning and updates.

The Sun Fire X2200 server is the best solution for businesses that want superior perform-ance, memory capacity, and energy efficiency—and streamlined system manage-ment—in the smallest possible footprint.

Sun Fire X2200 server

Processor

Up to two Next-Generation AMD Opteron™ processors, model 2000 series (L1 F (1207) socket). One-MB Level 2 cache per core. Provides AMD Virtualization™ and PowerNow!™ Technology

Main memory

Eight DIMM slots per CPU; total 16-DIMM slots. DDR2/667 registered ECC DIMMs (128-bit plus ECC databus). One GB, two GB, four GB DIMM supported. System configurations from two GB to 64 GB

System architecture

8.0 GB/sec. HyperTransport™ link; 10.6 GB/sec. link between processor and memory Onboard 2-D graphics controller

Standard/integrated interfaces

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

- Network Management : One 10/100/1000 bast-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, four rear)

Expansion bus

Riser card assembly with two internal eight-lane 64-bit PCI-Express expansion slots (low-profile, half-length)

Software

Supported operating systems:

- Solaris 10 06/06 Operating System, 64-bit

- Red Hat Enterprise Linux 3 U8, 32-bit/64-bit

- Red Hat Enterprise Linux 4 U4, 32-bit/64-bit

- SUSE LINUX Enterprise Server 9 SP3, 64-bit

- Windows Server 2003, Standard or Enterprise edition, 32-bit/64-bit

- VMware ESX 3.0

Management

- Standard IMPI 2.0-compliant service processor with embedded Lights Out Manager

- 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

- N1 System Manager 1.4 support

- SNMP v1, v2c, and v3

Mass storage and media

Internal disk

- Up to two hot-pluggable 3.5-inch SATA II internal disk drives

- 250 GB and 500 GB SATA II drives supported

Internal DVD

Up to one tray-load DVD-ROM

Nonoperating temperature (single, nonrack system)

- -40°–68° C (-40°–154° F)

- Up to 93 percent relative humidity

- Noncondensing, 38° C max. wet bulb

Altitude

- Operating: Up to 3,000m/9,000 ft., maximum ambient temperature; 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 (1B = 10 dB) at or below 25° C 6.9 B (A) idle, 7.2 B (A) operating

Learn More

To learn more about Sun's X2200 server, visit sun.com/x2200

Power

Power supply

- Single 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, EN 60950, 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