

Highly available data center powerhouse for mission-critical applications.

## SUN FIRE™ 6800 Server

### HIGHLIGHTS

- Up to 24 high-performance, award-winning UltraSPARC™ III processors in a symmetric multiprocessing architecture
- Industry's first fully redundant, reconfigurable, hot-pluggable system interconnect
- Full hardware redundancy, Dynamic Reconfiguration\*, online upgrades\*, Hot CPU Upgrades\*, concurrent maintenance\*, clustering\*, and accelerated system recovery help provide for continuous, highly available computing
- Runs the proven, tested Solaris™ 8 Operating Environment
- Four Dynamic System Domains\* for mainframe-like partitioning; Solaris Resource Manager™ for advanced workload management
- Hot-swappable common components for excellent investment protection
- Sun™ Management Center software helps enable administrators to actively manage thousands of Sun systems through a simple Java™ technology interface, web browser, or command line interface
- Worldwide consulting, educational, support, and remote services to help provide continuous availability

For data warehousing, data mining, server consolidation, and other mission-critical data center applications, the UltraSPARC™ III technology-based Sun Fire™ 6800 server is a powerful, highly available solution. Featuring the redundant, reconfigurable Sun™ Fireplane interconnect, this server delivers impressive total system performance. Full hardware redundancy and a variety of advanced mainframe-class

availability features, such as Hot CPU Upgrades\* and Dynamic Reconfiguration\*, help provide maximum uptime. With Solaris Resource Manager™ and Dynamic System Domains\*, the server has the flexibility to accommodate changing resource requirements across multiple applications. For mission-critical environments where manageability, performance, and availability are key, the Sun Fire 6800 server delivers.

\*These capabilities will be available in 2001



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# SUN FIRE 6800 SERVER

At the heart of Sun Fire midframe servers, the Sun Fireplane interconnect provides very high sustained bandwidth—9.6 GB per second. Sun Fire servers also feature the 64-bit UltraSPARC III processor with 8 MB of e-cache, with a four-way associative on-chip 64-KB data and 32-KB instruction cache and integrated memory controller. These capabilities make the Sun Fire 6800 server an excellent platform for commercial or high-performance computing.

## SUN FIRE 6800 SERVER SPECIFICATIONS

### PROCESSOR

<b>Number of processors</b>	Two to twenty-four
<b>Architecture</b>	Superscalar SPARC™ V9, UltraSPARC III
<b>E-cache per processor</b>	8 MB
<b>System interconnect</b>	Sun Fireplane interconnect 9.6 GB/sec. sustained

### SYSTEM

<b>Main memory</b>	Up to 192 GB of memory capacity per system
<b>I/O</b>	Thirty-two PCI slots (eight 66-MHz and twenty-four 33-MHz) or sixteen hot-swappable cPCI slots* (eight 66-MHz and eight 33-MHz)
<b>System controller</b>	Two per system
<b>Media device (optional)</b>	Sun StorEdge™ D240 Media Tray, a four-device tray that supports hard disk, tape, or DVD-ROM. Can be used as a boot, data-storage, data-load and data-interchange, or data-backup device.

### AVAILABILITY

Full hardware redundancy, Dynamic System Domains\*, Dynamic Reconfiguration\*, Hot CPU Upgrades\*, online upgrades\*, concurrent maintenance\*, end-to-end ECC protection, redundant network connections, redundant storage connections, kernel hot patching, hardened operating system kernel, live operating system upgrades, journaling file system, hardened I/O drivers, and cluster support\*

### RESOURCE MANAGEMENT

Dynamic System Domains\*, Solaris Resource Manager, Solaris Bandwidth Manager

### SOFTWARE

<b>Operating system</b>	Solaris™ Operating Environment, version 8 4/01 or later
<b>Languages</b>	C, C++, Pascal, FORTRAN, Java
<b>Networking</b>	ONC™, NFS, TCP/IP, SunLink™ OSI, MHS, X.25, DCE, Netware
<b>System monitoring</b>	Sun Management Center
<b>System and network management</b>	Solaris Web Start, Solstice AdminSuite™, Solstice Domain Manager™, Solstice Enterprise Manager™, Solstice DiskSuite™, Solstice Backup™, VERITAS File System, VERITAS Volume Manager, Sun Cluster*, Sun HPC ClusterTools**

### ENVIRONMENT

<b>AC power</b>	200–240 VAC (47–63 Hz), 41 Amp (2 circuits)
<b>Power cords</b>	Four
<b>Operating</b>	5° C to 35° C (41° F to 95° F) 20% to 80% relative humidity, noncondensing
<b>Nonoperating</b>	-20° C to 60° C (-4° F to 140° F) 5% to 93% relative humidity, noncondensing

### REGULATIONS

Meets or exceeds the following requirements:

<b>Safety</b>	UL 1950, CSA 950, TUB EN60950, CB Scheme (Nordic Deviation)
<b>RFI/EMI</b>	FCC Class A, DOC Class A, E55022 Class A, VCCI Class 1
<b>Immunity</b>	EN50082-1
<b>Harmonics</b>	EN61000-3-2

### DIMENSIONS AND WEIGHT

<b>Height</b>	1905 mm (75.0 in.)
<b>Width</b>	610 mm (24.0 in.)
<b>Depth</b>	1346 mm (53.0 in.)
<b>Weight</b>	454.5 kg (1000.0 lb.)
<b>Power cord</b>	4.6 m (15.0 ft.)

### UPGRADES

Full system upgrades are available for Sun Enterprise™ 4x00, 5x00, and 6x00 systems. Older Sun servers are eligible under Sun's Server Consolidation Program, and trade-in programs for other vendors' servers are also available. For more information, contact your local sales representative.



Front



Back

\*These capabilities will be available in 2001

**HEADQUARTERS** SUN MICROSYSTEMS, INC., 901 SAN ANTONIO ROAD, PALO ALTO, CA 94303-4900 USA  
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take it to the<sup>nth</sup>

### SALES OFFICES

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