

# Sun Fire™ 6800 Midframe Server



Highly-available powerhouse for mission-critical applications.

## Key feature highlights

Up to 24 high-performance, award-winning UltraSPARC® III processors in a symmetric multiprocessing architecture.

Investment protection with hot-swappable Uniboard CPU/Memory boards, common across the entire Sun Fire 4800-15K server family.

High availability via fault-isolated Dynamic System Domains, Dynamic Reconfiguration, online upgrades, and auto diagnosis and recovery.

Fully redundant, reconfigurable Sun™ Fireplane Interconnect delivers outstanding real-world performance.

Capacity on Demand (COD) purchasing option helps enhance and simplify system scalability, reduce hardware acquisition costs, and increase system 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. Full hardware redundancy and a variety of mainframe-class availability features, such as Dynamic Reconfiguration, online upgrades, concurrent maintenance, and auto diagnosis and recovery help provide maximum uptime. With Solaris™ Resource Manager software and Dynamic System Domains, the server accommodates changing resource requirements across multiple applications. For environments where manageability, performance, and availability are key, the Sun Fire 6800 server delivers.



# Sun Fire™ 6800 Midframe Server

## Specifications

### Processor

Number	2 to 24
Architecture	Superscalar SPARC® V9, UltraSPARC® III
Cache per processor	Level 1: Parity protected 32 KB instruction and 64 KB data on chip (single-bit errors are corrected) Level 2: ECC protected 8 MB external cache

### System

CPU/Memory boards	Up to six Uniboard CPU/Memory Boards, with two or four processors each and up to 32 GB memory per board; maximum 24 processors per system
Main memory	Up to 192 GB of memory capacity per domain
I/O	32 PCI slots (eight 66-MHz and twenty-four 33-MHz) or 16 hot-swappable cPCI slots (eight 66-MHz and eight 33-MHz)
System interconnect	Sun™ Firelane Interconnect
System bandwidth	9.6 GB/sec sustained bandwidth, 67.2 GB/sec aggregate bandwidth
System controller	Two per system
Media device (optional)	Sun StorEdge™ D240 Media Tray, a four-device tray that supports hard disk, tape, and DVD-ROM. Can be used as a boot, data-storage, data-load, data-interchange, and data-backup device

### Availability

Full hardware redundancy, fault-isolated Dynamic System Domains, Dynamic Reconfiguration, enhanced auto recovery, proactive self diagnostics, online upgrades, concurrent maintenance, end-to-end data integrity, including ECC, 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

Operating System	Solaris™ 8 or later Operating Environment (02/02 or later)
Languages	C, C++, Pascal, FORTRAN, Java™
Networking	ONC™/NFS; TCP/IP, SunLink™, OSI, MHS, X.25, DCE, Netware
System monitoring	Sun Management Center
System and network management	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

AC power	200-240 VAC (47-63 Hz), 34 Amp
Power cords	Four
Operating	5° C to 35° C (41° F to 95° F) 20% to 80% relative humidity, noncondensing
Nonoperating	-20° C to 60° C (-4° F to 140° F) 5% to 93% relative humidity, noncondensing

### Regulations

Meets or exceeds the following requirements:

Safety	UL1950, CSA C22.2 950, TUV EN60950, CB scheme with all country deviations
Ergonomics	EK1-ITB-2000
Emissions	FCC Class A, ICES-003 Class A, EN55022 Class A, VCCI Class A, BSMI Class A, EN61000-3-2, EN61000-3-3
RFI/EMI	EN55022/CISPR22 Class A, FCC CFR47 Part 15 Class A, EN61000-3-2, EN61000-3-3
Immunity	EN55024
Regulatory markings	CE, FCC, ICES-003, C-tick, VCCI, GOST-R, BSMI, EK, UL/cUL, TUV-GS

### Dimensions and Weight

Height	1905 mm (75.0 in.)
Width	610 mm (24.0 in.)
Depth	1346 mm (53.0 in.)
Weight	544.3 kg (1200.0 lb.)
Power cord	4.6 m (15.0 ft.)

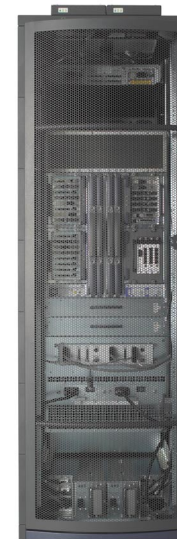
### Upgrades

Full system upgrades are available for Sun Enterprise™ 4X00, 5X00, 6X00, and Sun Enterprise 10000 servers. 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 Sun sales representative or authorized Sun reseller.

Purchase these products from the Sun<sup>SM</sup> Store, [sun.com/store](http://sun.com/store), or contact an authorized Sun reseller near you.



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