

Massively scalable server for mainframe rehosting, server consolidation, and technical computing.

Sun Fire™ 15K Server

HIGHLIGHTS

- Up to 106 high-performance, award-winning UltraSPARC™ III Cu 900 MHz processors in a symmetric multiprocessing architecture
- Big memory—over 1/2 TB memory with end-to-end data integrity
- Up to 18 Dynamic System Domains, fully reconfigurable while applications are running
- Hot-swappable, interchangeable CPU/Memory Boards, common across the entire Sun Fire™ 3800-15K server family, for long-term investment protection, including cascading upgrades
- Tested with over 250 TB of Sun StorEdge™ disk
- Full hardware redundancy for maximum uptime and availability, including N+1 power and cooling
- Dynamic Reconfiguration, online upgrades, hot CPU upgrades, concurrent maintenance, and accelerated system recovery designed to provide continuous, highly available operation
- Solaris™ Resource Manager software for advanced workload management
- Sun™ Management Center lets administrators actively manage the server through a simple Java™ technology interface, Web browser, or command line interface, with role-based security
- Runs the tested and proven Solaris 8 Operating Environment (UNIX® SVR4) supporting thousands of off-the-shelf applications
- Worldwide consulting, education, support, and remote services designed to provide continuous availability

With rock-solid availability and hot-swappable components, common across the entire Sun Fire™ family, the Sun Fire 15K helps you to redefine total cost of ownership (TCO) across your IT organization. The only high-end data center server with Gen5, Sun's 5th-generation Dynamic System Domains,

the Sun Fire 15K server, running the robust Solaris™ 8 Operating Environment, reliably supports thousands of mission-critical applications—with the flexibility to support multiple configurations as your business needs change.



**Purchase these products
from the Sun™ Store,
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or contact an authorized
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SUN FIRE 15K SERVER

Supporting interchangeable CPU/Memory Boards, common across the Sun Fire 3800-6800 server family, and tested with 250 TB of Sun StorEdge™, the Sun Fire 15K server scales up to 106 UltraSPARC™ III Cu 900 MHz processors, supports big memory—over 1/2 TB—and delivers up to 172.8 GB/sec. peak bandwidth via the redundant Sun Fireplane Interconnect. Built on the success and experience of delivering the leading high-end UNIX® servers for the most demanding world-class customers, the Sun Fire 15K can help you redefine total cost of ownership (TCO) across your data center.

SUN FIRE 15K SERVER SPECIFICATIONS

PROCESSOR	
Number of processors	Up to 106
Architecture	900 MHz Cu Superscalar SPARC™ V9, UltraSPARC III, ECC protected
Cache per processor	
Level 1	ECC protected 32 KB instruction and 64 KB data on chip
Level 2	ECC protected 8 MB external cache
System interconnect	150 MHz Sun Fireplane redundant 18x18 data, address, and response crossbar interconnect
SYSTEM	
CPU/Memory Boards	Up to 18 CPU/Memory Boards, each holding 4 processors and up to 32 GB memory, providing up to 576 GB memory per system, and common design across the entire Sun Fire™ 3800-15K server family.
I/O	Up to 72 I/O hot-swappable PCI slots on 18 channels; 36 slots are 66 MHz, 36 slots are 33 MHz; supports Sun Gigabit Ethernet FC-AL/P Combination Adapter, Sun Dual Fast Ethernet and Dual SCSI /P Adapter, Sun Dual Differential UltraSCSI Host Adapter, Sun Quad FastEthernet™, SunATM™ 622, Sun HIPPI/P1.0, Serial Asynchronous Interface Adapter
System Controller (SC)	2 redundant System Controllers Automatic system failover of System Controllers, automatic failover of SC clock and management functions, with no service interruption to users
PERFORMANCE	
Overall system bandwidth	Up to 172.8 GB/sec. peak, up to 43.2 GB/sec. sustained
Overall I/O bandwidth	Up to 21.6 GB/sec. sustained
AVAILABILITY	
	Full hardware redundancy Hot CPU upgrades Online upgrades Journaling file system Concurrent maintenance Full data integrity Redundant network connections Redundant storage connections Hardened operating system kernel Hardened I/O drivers
RAS FEATURES	
DR/ADR	Dynamic Reconfiguration/Automated Dynamic Reconfiguration: on-the-fly, online reallocation of system resources (CPUs, memory, I/O boards) as capacity needs change or for repairs, without OS reboots
Gen5	Up to 18 Dynamic System Domains allows secure, fault-isolated, dynamic partitioning of resources within a single server.
SECURITY	
Domain management	Dedicated network connections between the System Controller and 18 Dynamic System Domains are physically embedded inside Sun Fireplane Interconnect for added security.
Administrative roles	Separate roles and responsibilities, including role-based access controls for enhanced security. Unique ID for platform operator

RESOURCE MANAGEMENT	
	Gen5, Sun's 5th-generation Dynamic System Domains, Solaris Resource Manager™ software, Solaris Bandwidth Manager software
SOFTWARE	
Operating system	Solaris 8 Operating Environment (10/01 or later)
Languages	C, C++, Pascal, FORTRAN, Java
Networking	ONC/NFS; TCP/IP; SunNet™ OSI, X.25 Start, DCE, Netware
System management	Sun™ Management Center 3.0; System Management Services (SMS) 1.1; centralized administration of multiple applications on a single server
System and storage network	Solstice Site Manager™ and Solstice Domain Manager™, Solstice Backup™, Solstice DiskSuite™, Sun StorEdge™ Volume Manager, VERITAS Volume Manager 3.1.1, VERITAS File System 3.4, Sun Cluster 3.0
MASS STORAGE	
	StorEdge™ S1 Thin Storage (Boot Device); 250+ Terabytes direct connect storage available; Fibre Channel, LVD, and Differential SCSI supported; Sun StorEdge A5200; Sun StorEdge Array products supported, Sun StorEdge 9900 products will be supported.
POWER/FAN	
	Fully redundant power and cooling are standard with this system.
ENVIRONMENT	
AC power	200-240 single phase VAC, 47-63 Hz, with six 30 Amp circuits redundant with another six on 2 separate power grids
Operating	10° C to 35° C; 50° F to 90° F; 20% to 80% relative humidity; altitude up to 3,048 m (10,000 ft.)
REGULATIONS	
	Meets or exceeds the following requirements:
Safety	UL 1950, CUL CAN/CSA 22:2 M950, TUV EN60950
RFI/EMIFCC immunity	Class A, EN50021-1 Class A, EN50082-1
DIMENSIONS AND WEIGHT	
Height	191 cm (74.75 in.)
Width	85 cm (33.25 in.)
Depth	166 cm (65 in.)
Weight	1,000 kg (2,200 lb.) fully configured
UPGRADES	
	Full system upgrades are available for Sun Enterprise™ 4x00, 5x00, 6x00, and 10000 systems, along with the Sun Fire 6800 server. 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.



Sun Fire 6800



Sun Enterprise™ 10000



Sun StorEdge 9960

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