

Sun Fire™ 3800 Midframe Server



Compact, flexible, data center server for high availability and excellent investment protection.

Key feature highlights

Up to eight 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 3800-15K server family.

High availability via fault-isolated Dynamic System Domains, Dynamic Reconfiguration, online upgrades, enhanced auto recovery, and proactive self diagnostics.

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

A powerful member of Sun's UltraSPARC® III family of binary-compatible SMP servers, the Sun Fire™ 3800 server addresses the crucial data center requirement for continuous availability. Full hardware redundancy and a variety of advanced mainframe-class availability features, such as Dynamic Reconfiguration, fault-isolated Dynamic System Domains, online upgrades, enhanced auto recovery, and proactive self diagnostics help provide maximum uptime. The compact, highly available Sun Fire 3800 server makes an ideal system for e-mail, Web hosting, business applications, and high-performance compute farms. What's more, the Sun Fire 3800 server fits neatly into standard 19-inch racks, helping to provide the compute density today's data centers require.



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Specifications

Purchase these products from the SunSM Store, sun.com/store, or contact an authorized Sun reseller near you.

Processor

Number	two to eight
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 two Uniboard CPU/Memory Boards, with two or four processors each and up to 32 GB memory per board; maximum eight processors per system
Main memory	Up to 64 GB of memory capacity per system
I/O	12 hot-swappable cPCI slots (four 66-MHz and eight 33-MHz)
System interconnect	Sun™ Fireplane Interconnect
System bandwidth	9.6 GB/sec sustained bandwidth, 24.0 GB/sec aggregate bandwidth
System controller	Up to two per system
Redundancy kit (optional)	Redundant power supply, fan, system controller
Media device (optional)	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, 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	100 VAC (47-63 Hz) at 24 Amp or 120 VAC (47-63 Hz) at 19.7 Amp or 200-240 VAC (47-63 Hz) at 11.4 Amp
Power cords	Three
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, BSMI1000-3-2, 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	381 mm (15.0 in.)
Width	450 mm (17.7 in.)
Depth	884 mm (34.8 in.)
Weight	90.7 kg (200.0 lb.)
Power cord	4.6 m (15.0 ft.)

Packaging

Rack-mount enclosure	Fits three into a Sun Fire cabinet or a standard 19-inch rack. One Sun Fire 3800 and Sun Fire 4800 server can be placed inside the same rack.
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Upgrades

Full system upgrades are available for Sun Enterprise™ 3X00 and 4X00 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 Sun sales representative or authorized Sun reseller.



Front



Back



Three Sun Fire 3800 servers and three Sun StorEdge D240 Media Trays in a Sun Fire cabinet

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