

Sun Fire™ 15K Server

Making the Net Work with a massively scalable server ideal for main-frame rehosting, server consolidation, and technical computing



High Availability with Investment Protection

Running the robust SOLARIS™ Operating Environment, the Sun Fire 15K server features built-in hardware redundancy for maximum uptime and availability, scales up to 106 UltraSPARC™ III Cu processors and supports big memory - over 1/2 TB - to handle large workloads or to support server consolidation, and delivers exceptional performance with up to 172.8 GB/sec aggregate bandwidth via the redundant Sun Fireplane Interconnect. Extremely flexible resource management is provided by Dynamic Reconfiguration, online upgrades, and hot CPU upgrades.

Protect investments with binary compatibility across the entire Sun server family, and hot-swappable, interchangeable Uniboard CPU/Memory boards, common across Sun Fire 3800-15K servers.

Maximize uptime with up to 18 Dynamic System Domains, reconfigurable while applications are running

Exceptional availability via automatic system failover of 2 redundant System Controllers and system clock with no service interruption to users



Sun Fire™ 15K Server

Specifications

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

Processor

Number	Up to 106
Architecture	UltraSPARC III Cu Superscalar SPARC™ V9, ECC Protected
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 Interconnect	150 MHz Sun Fireplane redundant 18x18 data, address, and response crossbar interconnect

System

Uniboards	Up to 18 Uniboard CPU/Memory Boards, with 4 processors and up to 32 GB memory; max 576 GB memory per system. (Also, Uniboards with 2 CPUs and 4GB memory.)
I/O	Up to 72 I/O hot-swappable PCI slots; 36 slots are 66 MHz, 36 slots are 33 MHz; supports 10/100BaseT ethernet, gigabit ethernet, UltraSCSI (LVD & HVD), ATM, FC-AL, & HiPPI

Performance

Overall System Bandwidth	Up to 172.8 GB/sec aggregate, up to 115.2 GB/sec peak; up to 43.2 GB/sec sustained
Overall I/O Bandwidth	Up to 21.6 GB/sec sustained

Availability

Standard	Hot CPU upgrades Online upgrades Journaling file system Redundant network connections Redundant storage connections Hardened operating system kernel Hardened I/O drivers
-----------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

RAS Features

Standard	Dynamic Reconfiguration/Automated DR, Concurrent DR, Initiate DR from domain, as well as from SC
Dynamic System Domains	Up to 18 Domains allow secure, fault-isolated, dynamic partitioning of resources within a single server

Security

Domain Management	Dedicated network connections (SC to 18 domains) inside Sun Fireplane Interconnect
--------------------------	------------------------------------------------------------------------------------

Resource Management

Standard	Sun's 5 th -generation Dynamic System Domains, Solaris Resource Manager™ and Bandwidth Manager™
-----------------	------------------------------------------------------------------------------------------------------------

Software

Operating System	Solaris 8 or later 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™ MC 3.0; SMS 1.1 (or later)
Network Management	VERITAS Volume Manager 3.1.1, VERITAS File System 3.4, Sun Cluster 3.0

Storage

Standard	250+ Terabytes direct connect storage – fibre channel & UltraSCSI; Sun StorEdge™ 9900, 6900, 3900, T3, A5200, S1, D1000, and tape devices
-----------------	-------------------------------------------------------------------------------------------------------------------------------------------

Environment

AC Power	200–240 single phase VAC, 47–63 Hz, six 30 Amp circuits redundant with another six on a separate power grid
Optimum	22° C (72° F) at 45% non-condensing humidity
Range	10° C to 35° C (50° F to 90° F) at 20% to 80% non-condensing humidity
Altitude	Up to 3,048 meters/10,000 feet

Regulations

Safety	Meets or exceeds UL 1950, CUL CAN/CSA 22:2 M950, TUV EN60950
RFI/EMIFCC Immunity	Meets or exceeds 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	1,122 kg (2,468 lb.) fully configured

Upgrades

Sun Enterprise/Sun Fire	Trade-in allowances are available for Sun Enterprise™ 4x00, 5x00, 6x00, and 10000 systems, along with the Sun Fire 6800 server. A Sun Fire 12K can be upgraded to a Sun Fire 15K.
Older Sun systems	Older Sun servers are eligible under Sun's Server Consolidation Program.
Other vendors' systems	Trade-in programs for other vendors' servers are also available.



Sun Fire 12K



Sun Fire 6800



Sun StorEdge 9960

Sun Microsystems, Inc. 901 San Antonio Road, Palo Alto, CA 94303-4900 USA 1-650-960-1300 or 1-800-555-9sun www.sun.com

AFRICA (NORTH, WEST, AND CENTRAL): +33-13-067-4680 O ARGENTINA: +54-11-4317-5600 O AUSTRALIA: +61-2-9844-5000 O AUSTRIA: +43-1-60563-0 O BELGIUM: +32-2-704-8000 O BRAZIL: +55-11-5187-2100 O CANADA: +905-477-6745 O CHILE: +56-2-3724500 O COLOMBIA: +57-1-629-2323 O COMMONWEALTH OF INDEPENDENT STATES: +7-502-935-8411 O CZECH REPUBLIC: +420-2-3300-9311 O DENMARK: +45 4556 5000 O EGYPT +202-570-9442 O ESTONIA: +372-6-308-900 O FINLAND: +358-9-525-561 O FRANCE: +33-134-03-00-00 O GERMANY: +49-89-46008-0 O GREECE: +30-1-618-8111 O HUNGARY: +36-1-489-8900 O ICELAND: +354-563-3010 O INDIA: BANGALORE: +91-80-2298989/2295454 NEW DELHI: +91-11-6106000 MUMBAI: +91-22-2018141 O IRELAND: +353-1-8055-666 O ISRAEL: +972-9-9710500 O ITALY: +39-02-641511 O JAPAN: +81-3-5717-5000 O KAZAKHSTAN: +7-3272-466774 O KOREA: +82-2193-5114 O LATVIA: +371-750-3700 O LITHUANIA: +370-729-8468 O LUXEMBOURG: +352-49 11 33 1 O MALAYSIA: +603-21161888 O MEXICO: +52-5-258-6100 O THE NETHERLANDS: +00-31-33-45-15-000 O NEW ZEALAND: AUCKLAND: +64-9-976-6800 WELLINGTON: +64-4-462-0780 O NORWAY: +47 23 36 96 00 O PEOPLE'S REPUBLIC OF CHINA: BEIJING: +86-10-6803-5588 CHENGDU: +86-28-619-9333 GUANGZHOU: +86-20-8755-5900 SHANGHAI: +86-21-6466-1228 HONG KONG: +852-2202-6688 O POLAND: +48-22-8747800 O PORTUGAL: +351-21-4134000 O RUSSIA: +7-502-935-8411 O SINGAPORE: +65-438-1888 O SLOVAK REPUBLIC: +421-2-4342-94-85 O SOUTH AFRICA: +27 11 256-6300 O SPAIN: +34-91-596-9900 O SWEDEN: +46-8-631-10-00 O SWITZERLAND: GERMAN: +41-1-908-90-00 FRENCH: +41-22-999-0444 O TAIWAN: +886-2-8732-9933 O THAILAND: +662-344-6888 O TURKEY: +90-212-335-22-00 O UNITED ARAB EMIRATES: +971-4-3366333 O UNITED KINGDOM: +44-1-276-20444 O UNITED STATES: +1-800-555-9SUN OR +1-650-960-1300 O VENEZUELA: +58-2-905-3800



We make the net work.



©2002 Sun Microsystems, Inc. All rights reserved. Specifications are subject to change without notice. Sun, Sun Microsystems, the Sun logo, Sun Fire, Solaris, Sun StorEdge, Java, ONC/NFS, SunNet, UltraSPARC, and Sun Enterprise are trademarks or registered trademarks of Sun Microsystems, Inc., in the United States and other countries. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc., in the United States and other countries. Products bearing SPARC trademarks are based upon an architecture developed by Sun Microsystems, Inc. UNIX is a registered trademark in the United States and other countries, exclusively licensed through X/Open Company, Ltd. LFC 1.0 Printed in USA 03/02 DE15072/5K