Sun Fire 12K Server

Rock-solid availability and Hot-swappable components make this server the integral building block for your Business-Ready Infrastructure.



Making the Net Work and Increasing Your ROI

The Sun Fire 12K is a massively scalable server for mainframe rehosting, server consolidation and technical computing. This high-end data center server with Sun's 5th generation Dynamic System Domains, runs the robust Solaris 8 (10/01 or later) Operating Environment. It reliably supports thousands of mission-critical applications - all binary compatible throughout the entire Sun Fire server family. The Sun Fire 12K has built-in hardware redundancy and has the flexibility to support multiple configurations as your business needs change.

Protect investments with hot-swappable, interchangeable **Uniboard CPU/Memory** boards

Provisions your Enterprise-class Data Center with up to 52 CPUs and 288 GB memory with end-toend data integrity

Maximizes uptime with up to 9 Dynamic **System Domains,** reconfigurable while applications are running

Provides highly-available operation via Dynamic Reconfiguration, on-line upgrades, hot CPU upgrades and concurrent maintenance.



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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

System Interconnect

Number 4 to 52

UltraSPARC™ III Cu Superscalar SPARC™ V9, Architecture

ECC Protected

Level 1: Parity protected 32 KB instruction Cache per Processor and 64 KB data on chip (single-bit errors

are corrected)

Level 2: ECC protected 8 MB external cache

150 MHz Sun Fireplane redundant data, address, and response crossbar

interconnect

System

Uniboards Up to 9 Uniboard CPU/Memory Boards,

with 4 processors and up to 32 GB memory; max 288 GB memory per system. (Also, Uniboards with 2 CPUs and 4GB memory.)

Up to 36 I/O hot-swappable PCI slots; 18 slots are 66 MHz, 18 slots are 33 MHz; supports 10/100BaseT ethernet, gigabit ethernet, UltraSCSI (LVD & HVD), ATM,

FC-AL, & HiPPI

Performance

Overall System Bandwidth Up to 86.4 GB/sec aggregate, up to

57.6 GB/sec peak; up to 21.6 GB/sec

Overall I/O Bandwidth Up to 10.8 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 Up to 9 Domains allow secure.

Dynamic System Domains fault-isolated, dynamic partitioning of

resources within a single server

Security

Domain Management

Dedicated network connections (SC to 9 Domains) inside Sun Fireplane Interconnect

Resource Management

Standard

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

Software

Operating System Solaris 8 Operating Environment

(10/01 or later)

C, C++, Pascal, FORTRAN, Java Languages

ONC™/NFS™, TCP/IP, SunNet™ OSI, X.25 Start, Networking

DCE, Netware

Sun[™] MC 3.0; SMS 1.1 (or later) System Management Network Management

VERITAS Volume Manager 3.1.1, VERITAS File

System 3.4, Sun Cluster 3.0

Storage

Standard

120+ Terabytes direct connect storage - fibre channel & UltraSCSI; Sun StorEdge 9900, 6900, 3900, T3, A5200, S1, D1000, and tape

Environment

AC Power

200-240 single phase VAC, 47-63 Hz, with six 30 Amp circuits redundant with another six

on a separate power grid

22° C (72° F) at 45% non-condensing

humidity

10° C to 35° C (50° F to 90° F) at Range 20% to 80% non-condensing humidity Up to 3,048 meters/10,000 feet

Altitude

Optimum

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

191 cm (74.75 in.) Width 85 cm (33.25 in.) Denth 166 cm (65 in.)

987 kg (2,141 lb.) fully configured Weight

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.

Sun Fire 12K The Sun Fire 12K can be upgraded to a

Sun Fire 15K.

Older Sun servers are eligible under Sun's Older Sun systems Server Consolidation Program.

Trade-in programs for other vendors' servers Other vendors' systems

are also available.



Sun Fire 15K



Sun Fire 6800



Sun StorEdge 9960

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