

Sun Fire™ V125 Server

Flexibility, Performance, and Value



Highlights

- A compact, low-cost server with the reliability of UltraSPARC® and Solaris™ technologies
- 53-percent performance increase over previous Sun Fire™ entry-level servers
- Rack-optimized, 1U/25-inch depth design
- 1.0-GHz UltraSPARC IIIi processor
- Up to eight GB of memory, up to two 73-/146-GB hot-plug Ultra160 SCSI disks, two Ethernet ports, and one full-length PCI slot (64-bit 33/66 MHz)
- Single power supply
- Advanced Lights Out Management (ALOM)
- Easy-to-use System Configuration Card (SCC) for increased availability and serviceability
- Available as a Sun™ System Pack, enabling customers to maximize their IT value while lowering total cost of acquisition and ownership



The Sun Fire™ V125 server is a ready-to-deploy, low-cost thin server that is ideal for horizontally-scaled Solaris™ OS application environments, such as Web server infrastructure or technical server farms. Powered by a single 1.0-GHz UltraSPARC IIIi processor and the Solaris™ OS in a compact 1U form factor, this innovative, feature-rich server is designed to help increase availability, enhance throughput and performance, and simplify management and serviceability. The Sun Fire V125 server contains two Ethernet ports on the motherboard, offering considerable savings over systems that use separate PCI cards, and comes standard with the industry's only System Configuration Card (SCC), which is easily transferable to a standby system for increased system availability and quick upgrades or repairs. Advanced Lights Out Management (ALOM) also helps enable remote management for a large number of servers from virtually anywhere on the network.

The Sun Fire V125 server is available as a Sun System Pack. This offering combines the server with the right services, enabling customers to yield the most value from their assets. The Sun System Packs provide signifi-

cant advantages over traditional warranty plans by delivering higher value services such as better service coverage, automatic OS updates, and training credits.

Sun Fire V125 Server Specifications

Processor options

Processor

One 1.0-GHz UltraSPARC IIIi

Architecture

64-bit, four-way superscalar SPARC® V9

Cache

64-KB data, 32-KB instruction, and one-MB integrated L2 cache

Main memory

- Four DIMMs; from one GB to eight GB
- System configurations from one GB to eight GB

Key applications

- Web server
- Security
- Application development
- Portal gateway
- Grid engine
- Technical computing

Power supplies

Two power supplies

Maximum DC output 320 W

Standard/integrated interfaces

Network

Two 10/100/1000Base-T Ethernet ports

Network management

One 10Base-T Ethernet port

Serial management

One TIA/EIA-232-F (RJ45) port

Serial

One TIA/EIA-232-F asynchronous (DB9) port

SCSI

One Ultra160SCSI multimode (SE/LVD)

USB

Two OHCI 1.0-compliant interfaces, supporting dual speeds of 1.2 and 1.5 Mbits/s each

Expansion bus

One 64-bit 33/66-MHz full-length PCI 2.2 compliant slot: accepts 3.3 V and universal cards

System Configuration Card and reader (removable)

Front accessible for transfer of system configuration information, including host ID, MAC address, and NVRAM

Security

Optional Sun Crypto Accelerator 500 card, offering security protocol acceleration via a daughtercard

Mass storage and media

Internal disk

- Up to two hot-plug Ultra160 SCSI 73-/146-GB disks
- Mixing of disk capacities supported

Internal DVD

One Slim-line ATAPI DVD-ROM (optional)

External disk

- Sun StorageTek™ S1 Array
- Sun StorageTek 3120 SCSI Array
- Sun StorageTek 3310 SCSI Array
- Sun StorageTek 3320 SCSI Array
- Sun StorageTek 3510 FC Array
- Sun StorageTek 3511 FC Array
- Sun StorageTek 3520 FC Array
- Sun StorageTek 5310 Array
- Sun StorageTek 6140 Array

- Sun StorageTek 9990, 9980, 9970, 9960, 9910 Series (approval pending)
- Sun StorageTek D240 Media Tray

External tape

- Sun StorageTek DAT 72 Tape
- Sun StorageTek L8 Tape Autoloader (LTO2, LTO3, and SDLT320)
- Sun StorageTek L25 Tape Library (Solaris 9 and 10 OS only, LTO2, LTO3)
- Sun StorageTek L100 Tape Library (Solaris 9 and 10 OS only, LTO2, LTO3)
- Sun StorageTek L500 Tape Library
- Sun StorageTek C2 Autoloader
- Sun StorageTek C4 Tape Library
- Sun StorageTek SDLT 600 Tape

Dimensions and weight

Chassis

H: 43.2 mm (1.7 in.)

W: 425 mm (16.73 in.)

D: 635 mm (25 in.)

Weight

12.3 kg maximum (w/o packaging)

Enclosure

Fits into a standard 19-inch wide rack. Four-post rack kit adjustable between 720 mm and 925 mm. Check compatibility for non-Sun racks.

Software

Operating system

- Solaris 10 OS
- Solaris 9 OS (beginning with 09/04)
- Solaris 8 OS (beginning with 02/04)

Languages

- C/C++, FORTRAN
- Java™ programming language
- All other standard Sun-supported languages

Networking

ONC™, NFS, TCP/IP, SunLink™, OSI, MHS, IPX™/SPX

Management

Sun Management Center, Sun SNMP Management Agent, Advanced Lights Out Management (ALOM), Sun Net Connect, Sun Update Connection

High availability

Sun™ Cluster 3.x, Sun Java™ Enterprise System Software — preinstalled with a 90-day evaluation license for:

- Network identity services
 - Sun Java™ System Directory Server 5 2005Q1
 - Sun Java System Access manager 6 2005Q1
 - Sun Java System Directory Proxy Server 5 2005Q1
- Web and application services
 - Sun Java System Application Server Enterprise Edition 8.1 2005Q1
 - Sun Java System Message Queue 3 2005Q1 Enterprise Edition
 - Sun Java System Web Server 6.1 Service Pack 4 2005Q1
- Portal services
 - Sun Java System Portal Server 6 2005Q1
 - Sun Java System Portal Server Mobile Access 6 2005Q1
 - Sun Java System Portal Server Secure Remote Access 6 2005Q1
- Communication and collaboration services
 - Sun Java System Messaging Server 6 2005Q1
 - Sun Java System Calendar Server 6 2005Q1
 - Sun Java System Instant Messaging 7 2005Q1

• Availability services

- Sun™ Cluster 3.1 9/04
- Sun Cluster Agents for Sun™ ONE Services (Web, application, directory, messaging and calendar servers, and message queue)

Environment

AC power

90-264 V AC, 47–63 Hz

Operating temperature

5° C to 35° C (41° F to 95° F), 10-90 percent relative humidity, noncondensing, 27° C max. wet bulb

Nonoperating temperature

-40° C to 65° C (-40° F to 149° F temperature, up to 93 percent relative humidity, noncondensing, 38° C max. wet bulb

Operating altitude

Up to 3000 m, maximum ambient temperature is derated by 1° C per 500 m above 500 m

Nonoperating altitude

Up to 12,000 m

Acoustic noise

Less than 7.3 B sound power in ambient temperature of up to 24° C

Regulations (meets or exceeds the following)

Safety

EC60950, UL/CSA60950, EN60950

RFI/EMI

FCC Class A, Part 15 47 CFR, EN55022, CISPR 22

Immunity

EN55024

Certifications

Safety

cULus Mark, TUV GS Mark, CE Mark, S-Mark, CCC, GOST

EMC

CE Mark (93/68/EEC), FCC authorized Class A, ICES, VCCI, BSMI, CTICK, MIC, CCC, GOST

RoHS

RoHS-compliant with lead-in solder exemption

Learn More

For more information on the Sun Fire V125 server — a low-cost, 1U system ideal for Web server infrastructure and technical server farms — visit: sun.com/v125.