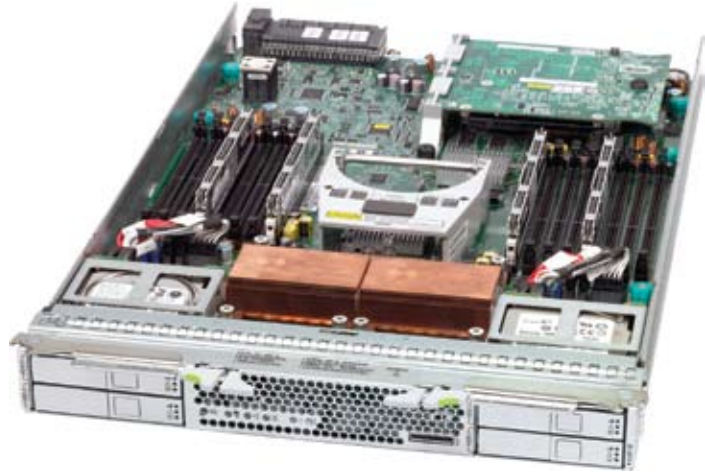


Sun Blade™ X6250 Server Module

The fastest Intel Xeon processor performance



Highlights

- Part of the Sun Blade™ 6000 family, which offers up to double the memory and I/O capacity of competing blades and rackmounts
- Up to half the price for large memory configurations
- Operating system flexibility—run the Solaris™ 10 OS, Linux, Windows, or VMware
- Sun Blade transparent management—direct management of each server module for seamless integration into existing management infrastructure
- Versatile storage with integrated hardware RAID controller and up to four 2.5 in. SAS or SATA hard disk drives
- Engineered for superior availability, with hot-swappable disks and no fans or power supply units on the blade
- Equal or better capability than rackmount servers
- Instantly speed up I/O intensive application performance with Flash technology

Powered by Intel® Xeon® processors, the Sun Blade X6250 server module is ideal for the demands of the Web and application tiers, as well as high-performance technical computing. The server module is designed to deliver the fastest Intel Xeon processor performance. The Sun Blade X6250 server module offers top performance and rich features in a compact footprint, helping improve your time to market.

The Sun Blade X6250 server module is the only two-socket Intel Xeon processor-based blade server offering unconstrained I/O capacity and 64 GB of memory, fully accessible even in a single-CPU configuration. The feature-rich, scalable system offers high memory density, with up to 64 GB of RAM per blade, and the opportunity to consolidate your datacenter infrastructure onto fewer, more power- and space-efficient blades, which can lower costs significantly.

The cost-effective Sun Blade X6250 server module scales easily, provides the fastest Intel Xeon processor performance, supports more software applications, and affords you the broadest range of configurations. Its processing power helps eliminate performance bottlenecks, while its enhanced memory and I/O enable you to take full advantage of its high-performance CPUs. You also avoid vendor lock-in, because its I/O is based on industry standards, and the server also runs a wide range of operating systems—from Linux to the Solaris 10 Operating System, the most advanced OS on the planet.



Sun Blade X6250 Server Module Specifications

Architecture

Processors

- One or two Intel® Xeon® processor 5000 series, with each pair of cores integrating up to 6 MB of L2 Intel Advanced Smart Cache
- Server module provides up to 120 W per processor socket, supporting the highest performance CPUs

Main memory

- Support for 1 GB, 2 GB, and 4 GB PC2-5300 fully buffered DIMMs at 667 MHz
- Sixteen DIMM slots supporting up to 64 GB of memory per server module

Interfaces

Network

- Two 10/100/1000 Base-T Ethernet ports using the Intel 82563EB Gigabit Ethernet transceiver
- One dedicated 10/100 Base-T Ethernet port for the management network

Storage

- Eight 3 Gb/sec SAS/SATA interfaces using the RAID expansion module
- Four 1.5 Gb/sec SATA interfaces, one to each of the SFF (small form factor) SAS/SATA disk drive bays using the ESB2 I/O south bridge
 - Four SAS interfaces, one to each of the SFF SAS/SATA disk drive bays with RAID 0, 1, 5, 10 support
 - Four SAS interfaces to the midplane, two to each Network Express Module (NEM)
- IDE CompactFlash Module Interface (Type I)

Graphics

- Embedded graphics using the AST2000 video controller with 128 MB of shared SDRAM

Midplane I/O

- Two x8 PCI Express (PCIe) busses, one x8 PCIe bus to each of the PCIe ExpressModules (EMs)
- Two x4 PCIe busses, one x4 PCIe bus to each of the NEMs
- Four 3 Gb/sec SAS interfaces, two to each NEM
- Two 10/100/1000 Gigabit Ethernet interfaces, one per NEM
- 10/100 Ethernet management port to Chassis Monitoring Module (CMM)
- Available RAID 5 support with Sun PN X4620A
- Available 10 GbE performance with Sun PN X1029A-Z

Front panel I/O

- Available via dongle cable:
 - VGA graphics (DB-15 connector)
 - Serial console to server module on-board lights out management
 - Dual USB ports for keyboard, mouse, or storage
- Four SFF drive bays
 - Supporting SAS/SATA SFF disks and solid-state drives (SSD)

Software

Operating systems

- Solaris™ 10 Operating System
- Red Hat Enterprise Linux Advanced Server
- SUSE Linux Enterprise Server
- VMware ESX Server
- Windows Server 2003, Enterprise Edition (32-bit/64-bit)
- Windows 2008, Datacenter Edition

Learn More

For more information on the Sun Blade X6250 server module, go to sun.com/x6250.

Networking

- ONC™, ONC+™, NFS, WebNFS™, TCP/IP, SunLink™, OSI, MHS, IPX™/SPX, SMB Technologies, and XML

Management

- Advanced on-board management and monitoring enabled by embedded Integrated Lights Out Manager (ILOM) service processor, providing:
 - DMTF-style CLI
 - Support for SSH, RADIUS, MS Active Directory
 - Browser-based GUI
 - IPMI 2.0; SNMP v1, v2c, and v3
 - Full remote graphical console, keyboard, mouse, and remote media
- Sun xVM Ops Center — Generation of profiles to ensure compliance and compliance reporting, discovery and registration of datacenter assets, job scheduling to perform network tasks, system provisioning, and updates to Linux and the Solaris OS

Dimensions and weight

Height: 44.45 mm (1.75 in.)

Width: 327.15 mm (12.88 in.)

Depth: 496.82 mm (19.56 in.)

Weight: 6.27 kg (13.83 lbs.) empty—no disks or memory

Weight: 7.51 kg (16.56 lbs.) fully configured