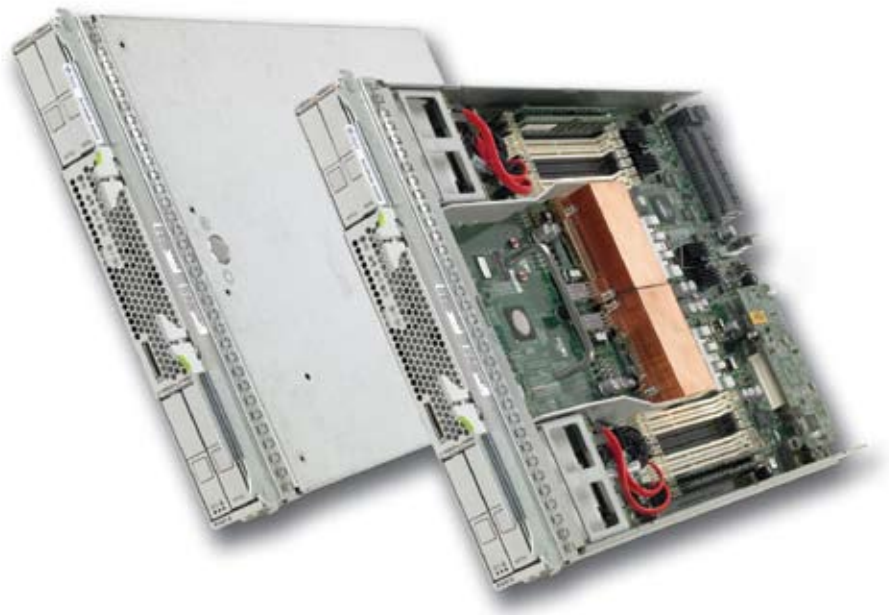


Sun Blade™ X6220 Server Module

The fastest AMD Opteron™
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 — runs 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 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



The Sun Blade™ X6220 server module is a two-socket, enterprise-class datacenter engine that provides major savings with fastest performance. With this system, it's possible to consolidate IT infrastructures or Web service farms at half the cost of competing servers. And because these blades scale easily, supporting the broadest range of configurations and applications, they provide flexibility that protects your investments and supports your future business growth.

The Sun Blade X6220 server module is an enterprise workhorse powered by high-performance, Dual-Core AMD Opteron™ processors, and it features large memory configurations and flexible I/O. The system is ideal for running a wide variety of applications, ranging from the Web to the edge and the application tiers — even some horizontal consolidation and databases. The Sun Blade X6220 server module is a front-runner for applications that demand the highest memory performance and fastest AMD Opteron processor performance.

The Sun Blade X6220 server module runs cooler, using less power and space. Because it also provides record-setting performance, the server module enables you to do more with less. Hot-swappable and hot-pluggable components help enhance the system's

availability and serviceability, while streamlined, transparent management helps reduce costs by decreasing complexity to enable easy integration into existing datacenter environments.

With its generous 16 DIMM slots, it can be configured for large memory footprints by using cost-efficient, smaller memory modules. Its 64 GB memory capacity nicely positions the Sun Blade X6220 server module to leverage modern virtualization technologies to run multiple guest servers on a single server module. Featuring up to 142 Gbps I/O bandwidth and up to four 2.5 in. SAS or SATA hard disk drives, the Sun Blade X6220 server module is ready for your most demanding workloads.

Sun Blade X6220 Server Module Specifications

Architecture

Processors

- Two Dual-Core AMD Opteron 2000 Series processors, 1 MB Level 2 cache per processor core
- 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 PC-5300 ECC registered 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 Marvell M88E1111 Gigabit Ethernet transceivers
- One dedicated 10/100 Base-T Ethernet port for the management network

Storage

- Eight 3 Gbps SAS/SATA interfaces using the LSI SAS1068E controller
 - Four SAS interfaces, one to each of the SFF (small form factor) SAS/SATA disk drive bays with RAID 0, 1 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 ATI RAGE XL video controller with 8 MB of SDRAM

Midplane I/O

- Four x8 PCI Express busses
 - One per NEM
 - One per ExpressModule (EM)
- Four 3 Gbps SAS interfaces, two per NEM
- Two 10/100/1000 Gigabit Ethernet interfaces, one per NEM
- 10/100 Ethernet management port to Chassis Monitoring Module (CMM)

Front panel I/O

- Available via dongle cable
 - VGA graphics (DB-15 connector)
 - Serial console to server module Integrated Lights Out Manager (iLOM)
 - Dual USB ports for keyboard and mouse
- Four SFF disk drive bays
 - Supporting SAS/SATA SFF disk drives

Software

Operating systems

- Solaris 10 Operating System, 64-bit
- Red Hat Enterprise Linux Advanced Server 4.0, 64-bit
- SUSE Linux Enterprise Server 10, 64-bit
- VMware ESX Server 3.X
- Windows Server 2003, Enterprise Edition, 32-bit/64-bit

Networking

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

Management

- On-board Sun iLOM, providing full lights-out management:
 - DMTF-style CLI

Learn More

For more information on the Sun Blade 6000 Modular System, go to: sun.com/blades.

- Supports SSH, RADIUS, LDAP, MS Active Directory
- Browser-based GUI
- IPMI 2.0; SNMP v1, v2c, and v3
- Java remote console, delivering full remote control
- Complete remote media (floppy, CD, DVD)
- Sun xVM Ops Center — datacenter automation tool simplifying datacenter management tasks including:
 - Asset discovery on demand from local or remote locations
 - Operating system provisioning and patching
 - Maintaining up-to-date guest operating systems
 - Monitoring for virtual assets in a network

Dimensions and weight

Height

44.45mm (1.75 in)

Width

327.15mm (12.88 in.)

Depth

496.82mm (19.56 in.)

Weight (empty — no disks or memory)

6.01 kg (13.25 lbs.)

Weight (fully configured)

7.24 kg (15.95 lbs.)



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