SUN BLADE X6270 M2 SERVER MODULE

**BEST VIRTUALIZATION BLADE FOR BUSINESS APPLICATIONS**

FEATURES

- Powered by the fastest six-core Intel Xeon Processor 5600 Series
- Supports PCIe ExpressModules enabling each blade to have its own unique I/O configuration
- Eighteen DIMM slots for large memory capacity
- 282Gb/sec of I/O bandwidth for I/O intense workloads
- Supports a wide range of Enterprise Class Server Operating Systems

BENEFITS

- Versatile no-compromise design scales to run enterprise collaboration and virtualized business application workloads
- Fastest blade server to deploy supporting no-downtime I/O upgrades
- Leverages highly available power, cooling and I/O infrastructure of the Sun Blade 6000 chassis
- SSD technology for reduced power consumption

With its large memory footprint and high I/O bandwidth, Oracle's Sun Blade X6270 M2 server module is the best virtualization blade on the market for business applications and enterprise collaboration workloads. Powered by the highest speed six-core Intel Xeon Processor 5600 series, this perfectly balanced blade leverages the unique I/O architecture of the Sun Blade 6000 chassis, making it the easiest blade to deploy and upgrade. When combined with Oracle's blade-specific storage and advanced networking products, the Sun Blade X6270 M2 server module offers breakthrough performance and superior energy efficiency while reducing the cost and complexity of today's data center.
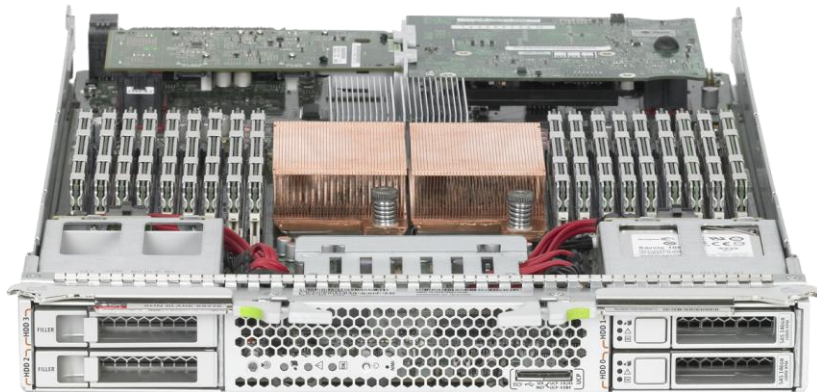
Perfectly balanced, Oracle's Sun Blade X6270 M2 server module is the easiest blade to deploy and upgrade and is ideal for running virtualized business applications and enterprise collaboration workloads.

Product Overview

The versatile Sun Blade X6270 M2 server module combines its unmatched I/O bandwidth and its large memory capacity with Intel's highest performing Intel Xeon Processor 5600 Series to enable this two socket blade server to run the most demanding enterprise collaboration and virtualized business application workloads while reducing power consumption and cooling costs. The Sun Blade X6270 M2 server module offers optional high speed storage with Solid State Drives (SSDs) that when combined with Oracle's Solaris ZFS File System provides exceptional I/O performance.

Supported in the Sun Blade 6000 chassis, the Sun Blade X6270 M2 server module provides an IT infrastructure solution with enterprise-class reliability leveraging the chassis based redundant, hot swappable components such as fan modules, high

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efficiency power supply modules and PCIe ExpressModules. Each server module is equipped with an Oracle Integrated Lights Out Manager (ILOM) service processor that offers industry-standard protocols for standalone system management as well as integration with many industry leading management systems.

When used in conjunction with the Sun Blade Storage Module M2 the resulting solution delivers a single system management solution for managing storage, networking and server modules which can greatly reduce complexity and operational expenses while increasing productivity.

Combining this server module with the high performance, low latency Sun Blade 6000 Ethernet Switched Network Express Module 24p 10GbE provides customers with the required bandwidth that's needed to eliminate potential network bottlenecks that can occur when a large number of virtual machines are deployed. This switched Network Express Module simplifies the IT infrastructure and reduces network costs by eliminating an entire tier of datacenter switching and also reducing cables by 4:1.

Sun Blade X6270 M2 server module Specifications

Architecture
Processor
• One or two Intel Xeon Processor 5600 Series at up to 3.46GHz
Cache
• Level 1: 32KB instruction and 32 KB data L1 cache per core
• Level 2: 256KB unified (data and instruction) L2 cache per core
• Level 3: 12MB shared inclusive L3 cache per processor
Main Memory
• 18 DIMM slots provide up to 144GB of ECC-protected DDR3 memory
• DIMM options: 4GB at 1333MHz, 8GB at 1066MHz
Interfaces
Network
• Two 10/100/1000Base-T Ethernet ports
• One dedicated 10/100Base-T Ethernet port for the management network
Storage
• Four SAS-2 interfaces to the midplane, two to each Network Express Module slot
• Four hot swappable Small Form Factor (SFF) 2.5" drive bays
Note: RAID Expansion Module is required for SAS support
Graphics
• 2D graphics controller with 8MB video memory embedded inside service processor
• Supports resolutions up to 1600x1200x16 bits @60 Hz (1024x768 when viewed remotely via ILOM RKVMS)
Midplane I/O
• Four (x8) PCIe 2.0 busses, two to the ExpressModule slots and two to the Network Express Module slots
• Four 6Gb/sec SAS/SATA interfaces, two to each Network Express Module slot
• Two 10/100/1000Base-T Ethernet interfaces using an Intel 82576EB Gigabit Ethernet Controller, one interface to each Network Express Module slot
• One 10/100 Ethernet management port to the Chassis Monitoring Module

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Front Panel I/O
• Four hot swappable SFF drive bays, supporting SAS or SATA Hard Disk Drives and Solid State Drives Available via dongle cable: • VGA graphics (DB-15 connector) • Oracle ILOM serial console • Dual USB ports for keyboard, mouse, or storage

Software	
Operating Systems	
• Oracle Linux • Oracle VM • Oracle Solaris • Red Hat Enterprise Linux • SuSE Linux Enterprise Server	• VMware • Windows Server

Management
Advanced onboard management and monitoring enabled by embedded ILOM service processor, providing • DMTF-style Command-Line Interface • Support for SSH 2.0, HTTPS, RADIUS, LDAP, and Microsoft Active Directory • Browser-based GUI for control of the system through a graphical interface • IPMI 2.0; SNMP v1, v2c, and v3 • Remote management with full keyboard, video, mouse, storage (KVMS) redirection and remote media capability (floppy, DVD, CD and more) • Monitor and report system and component status on all FRUs
Optional Oracle Enterprise Manager Ops Center is available to help take the Sun Blade X6270 M2 server module from purchase to production in the fastest way possible. Take advantage of Ops Center's built in knowledge of the X6270 M2 to make tasks such as firmware provisioning, hardware fault monitoring, and power monitoring easy. Bare metal provision Oracle Solaris, RHEL, or SLES. Create profiles to ensure compliance with operating standards. Leverage Ops Center's unique software dependency engine to patch in the most efficient manner possible. Virtualize with Solaris Containers to achieve workload mobility. Ops Center can help you spend less time managing the Sun Blade X6270 M2 and more time making money with it.

I/O Modules
Supported I/O module form factors: • Up to two (blade unique) PCIe ExpressModules per Sun Blade X6270 M2 server module • Up to two (shared) Network Express Modules per Sun Blade 6000 chassis

Dimensions and Weight
• Height: 327 mm (12.87 in.) • Width: 44 mm (1.7 in.) • Depth: 512 mm (20.16 in.) • Weight: 7.9 kg (17.4 lbs.) fully populated

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With its large memory footprint, high I/O bandwidth and the flexibility and efficiency of the Sun Blade 6000 chassis, the Sun Blade X6270 M2 server module is the best virtualization blade on the market for business applications and enterprise collaboration workloads.

RELATED PRODUCTS

The Sun Blade X6270 M2 server module is designed for the Sun Blade 6000 chassis where it can be mixed with

* SPARC T3-1B Server
* Sun Blade X6275 M2

It can also be connected to the Sun Blade Storage Module M2 for scalable storage or to the Sun Blade 6000 Ethernet Switched Network Express Module 24p 10GbE for 10GbE switching.

RELATED SERVICES

The following services are available from Oracle Support Services:

• Installation

• Maintenance

Warranty

The Sun Blade X6270 M2 server module offers a one year warranty. Please visit oracle.com/sun/warranty for Oracle's global warranty support information on Sun products.

Services

Visit oracle.com/sun/services for information on Oracle's service program offerings for Sun products.

Contact Us

For more information about Oracle's Sun Blade X6270 M2 server module, please visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

Oracle is committed to developing practices and products that help protect the environment

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