

SUN BLADE X6270 SERVER MODULE

KEY FEATURES

OPEN NETWORK SYSTEM
DESIGN FOR LEADING
VIRTUALIZATION PLATFORM

FEATURES

- Certified for Oracle Enterprise Linux, VMWare, Windows, Red Hat, SuSE, and Solaris 10
- Highly-efficient and serviceable modular design
- Manage configurations and life cycle with software from Oracle, Sun, or third-party vendors
- Supports up to two high-performance quad-core Intel Xeon processor 5500-series
- 18 DIMM slots provide up to 144 GB of ECC-protected DDR3 memory
- Four drive bays provide up to 2TB of storage per X6270
- PCI SIG-standard ExpressModules (EMs) provide unique I/O per blade,
- Seamlessly compatible with ecosystem of Oracle's blade-specific networking and storage modules

Architected for today's enterprise data centers, Oracle's Sun Blade X6270 Server Module excels at enterprise applications and web infrastructure. When combine with Oracle's blade-specific storage and virtualized networking products, the X6270 Server Module becomes a platform for consolidation, virtualization and database. Oracle's Sun Blade X6270 Server Module offers streamlined management, breakthrough performance, and superior energy efficiency. Together with Oracle's rich portfolio of software, storage, and service the X6270 Server Module reduces costs and complexity while accelerating time to revenue for data centers.



Architected for today's enterprise data centers, Oracle's Sun Blade X6270 Server Module excels at enterprise applications and web infrastructure

Product Overview

The Sun Blade X6270 Server Module leverages the high-performance, power-efficient features of the Intel Xeon processor 5500-series with Turbo Boost, QuickPath Interconnect, and Hyper-Threading, to run the most demanding applications while reducing power and cooling demands. Supporting all 32- and 64-bit applications, Sun Blade X6270 Server Module offers optional high performance with solid-state drives (SSDs) that can combine with Solaris ZFS File System for exceptional I/O performance. Additionally, the server module provides superior scalability that is streamlined and simplified—with minimal risk. Regardless of the application, a data center using the Sun Blade X6270 Server Module will meet today's challenges as well as the changing demands of business needs in the future.

Used in the Sun Blade 6000 or 6048 Chassis, the Sun Blade X6270 Server Module offers enterprise-class reliability, with many redundant, hot-swappable components—including fans, disk drives, and power supply modules. Each server module is equipped with an Integrated Lights Out Manager (ILOM) service processor offering industry-standard protocols for standalone system manageability as well as



integration with many industry-leading management systems, including Sun xVM Ops Center. Combining Sun Blade X6270 Server Module with other Oracle enterprise software and services will offer your data center unprecedented performance and price/performance.

Sun Blade X6270 Server Module Specifications

Architecture
Processor
One or two Intel Xeon Processors 5500-series at 95W (up to 2.93GHz), 80W (up to 2.53GHz), or 60W (2.26GHz only)
Cache
Level 1: 32 KB instruction and 32 KB data L1 cache per core Level 2: 256 KB unified (data and instruction) L2 cache per core Level 3: 8 MB shared inclusive L3 cache per processor
Main Memory
<ul style="list-style-type: none"> • 18 DIMM slots provide up to 144GB of ECC-protected DDR3 memory. • Three DIMM types: 8GB at 1066MHz, 4GB at 1333MHz, 2GB at 1333MHz
Interfaces
Network
<ul style="list-style-type: none"> • Two 10/100/1000Base-T Ethernet ports • One dedicated 10/100Base-T Ethernet port for the management network
Storage
<ul style="list-style-type: none"> • Four SAS interfaces to the midplane, two to each Network Express Module (NEM) • Four hot-swappable Small Form Factor (SFF) drive bays • IDE CompactFlash (CF) Module interface (Types I and II) <p>Note: RAID Expansion Module (REM) required to enable SAS.</p>
Graphics
<ul style="list-style-type: none"> • 2D graphics controller embedded inside service processor. • Support remote console at resolution up to 1600 x 1200 x 16 bits @ 60MHz
Midplane I/O
<ul style="list-style-type: none"> • Four (x8) PCIe 2.0 busses, two to the PCIe EM slots and two to the NEM slots • Four 3 Gb/sec SAS/SATA interfaces, two to each NEM slot • Two 10/100/1000Base-T Ethernet interfaces using an Intel 82575EB Gigabit Ethernet Controller, one interface to each NEM • 10/100 Ethernet management port to the Chassis Monitoring Module (CMM)
Front Panel I/O
<p>Available via dongle cable:</p> <ul style="list-style-type: none"> • VGA graphics (DB-15 connector) • Integrated Lights Out Management (ILOM) serial console • Dual USB ports for keyboard, mouse, or storage • Four hot-swappable SFF drive bays, supporting SAS or SATA HDDs and SSDs

Software	
Operating Systems	
<ul style="list-style-type: none"> • Oracle Enterprise Linux 4.7, 4.8, and 5.3 • Oracle VM 2.2 • Solaris 10 OS 10/08 • OpenSolaris OS 2008.11 • Red Hat Enterprise Linux 4.7 (32-bit / 64-bit) • Red Hat Enterprise Linux 5.3 (64-bit) • SuSE Linux Enterprise Server 10 SP3 (64-bit) • SuSE Linux Enterprise Server 10 SP3 (64-bit) with Xen • SuSE Linux Enterprise Server 11 (64-bit) • SuSE Linux Enterprise Server 11 (64-bit) with Xen 	<ul style="list-style-type: none"> • VMware ESX 3.5 U4 • VMware ESXi 3.5 U4 • VMware ESX 4 • VMware ESXi 4 • Windows Server 2003 (32-bit / 64-bit): Enterprise, Standard • Windows Server 2008 (32-bit / 64-bit): Datacenter, Enterprise, Standard
Networking	
ONC, ONC+, NFS, WebNFS, TCP/IP, SunLink, OSI, MHS, IPX/SPX, SMB technologies, and XML	
Management	
Advanced onboard management and monitoring enabled by embedded ILOM service processor, providing	
<ul style="list-style-type: none"> • DMTF-style CLI • 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 Sun xVM Ops Center software—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	
I/O Modules	
Supported I/O module form factors:	
<ul style="list-style-type: none"> • Up to two EMs per X6270, regardless of chassis • Up to two NEMs per Sun Blade 6000 Chassis • Up to eight NEMs per Sun Blade 6048 Chassis • All I/O modules based on industry standard PCI Express 	
Dimensions and Weight	
<ul style="list-style-type: none"> • 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.) with four disks, one FEM, one REM, and two CPUs 	

Warranty

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 server module, please visit oracle.com/sun or call +1.800.786.0404 to speak to an Oracle representative.



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

Copyright © 2009, Oracle and/or its affiliates. All rights reserved.

This document is provided for information purposes only and the contents hereof are subject to change without notice. This document is not warranted to be error-free, nor subject to any other warranties or conditions, whether expressed orally or implied in law, including implied warranties and conditions of merchantability or fitness for a particular purpose. We specifically disclaim any liability with respect to this document and no contractual obligations are formed either directly or indirectly by this document. This document may not be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without our prior written permission.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. UNIX is a registered trademark licensed through X/Open Company, Ltd. 0909