

SUN BLADE X6275 SERVER MODULE

KEY FEATURES AND BENEFITS

DUAL-NODE SERVER MODULE FOR ENTERPRISE APPLICATIONS AND TECHNICAL COMPUTING WITH ON-BOARD GBE FEATURES

- High-density, dual-node, two-socket server module with high-performance Intel Xeon processor 5500 series CPUs
- 12 DDR3 DIMM slots per node provide capacity for up to 192GB of memory
- SATA-based Sun Flash Modules provide storage acceleration and are a reliable low-power boot source to this power-efficient blade

BENEFITS

- Modular design is highly efficient and serviceable without compromising performance or scalability
- Ease of management with Sun xVM Ops Center or third-party software; no additional training required

Oracle's dual-node, two-socket Sun Blade X6275 GbE server module provides high density and performance for compute-intensive applications. Powered by Intel Xeon processor 5500 series CPUs with Intel QPI, Turbo Boost, and Hyper-Threading Technologies, the Sun Blade X6275 GbE is ideal for enterprise applications and commercial technical computing.



The Sun Blade X6275 GbE server module

Consistent with all Sun Blade platforms, I/O is off the server module, hot pluggable, and externally accessible for ease of serviceability. In addition, only Sun Blade systems offer unique I/O per server module for maximum flexibility. The Sun Blade X6275 server module also comes equipped with on-board service processors that enable each node to be managed like an individual rackmount server, so no additional training is required. In addition, the Sun Blade X6275 server module helps customers scale their computing resources without adding complexity. When combined with Oracle's rich portfolio of software, storage, and service offerings, this server module helps reduce cost and complexity while accelerating time to revenue for the most demanding applications and simulations.

Sun Blade X6275 GbE Server Module Specifications

Architecture
Processors (per Compute Node)
<ul style="list-style-type: none"> • Two four-core Intel Xeon processors 5500 series; 95 W, 80 W, and 60 W, with heat sink
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 (per Compute Node)	
<ul style="list-style-type: none"> • Support for 2 Gb and 4 GB DDR3 DIMMs at 1,066 MHz and 1,333 MHz • 12 DIMM slots supporting up to 96 GB of memory per two-socket compute node 	
Interfaces	
Network	
<ul style="list-style-type: none"> • One 10/100/1000Base-T Ethernet port using the Intel 82567 Gigabit Ethernet (GbE) Controller • One (shared) 10/100Base-T Ethernet port for the management network 	
Storage	
One 3 Gb/sec SATA interface to a Sun Flash Module	
Graphics	
Embedded graphics using the AST2100 video controller with 128 MB of shared memory	
Midplane I/O	
<ul style="list-style-type: none"> • One (x8) PCIe 2.0 bus to the PCI Express (PCIe) ExpressModule (EM) slot • One 10/100/1000Base-T Ethernet interface using the Intel 82567 GbE Controller, interface to one NEM • 10/100 Ethernet management port to the Chassis Monitoring Module (CMM) 	
Front Panel I/O	
Available via dongle cable: <ul style="list-style-type: none"> • VGA graphics (DB-15 connector) • Serial console to server module on-board and Integrated Lights Out Manager (ILOM) (RJ-45 connector) • Dual USB ports for keyboard, mouse, or storage 	
Dimensions and Weight	
Height: 327mm (12.87 in.)	
Width: 43mm (1.7 in.)	
Depth: 512mm (20.16 in.)	
Weight: 9.4 kg (approximately 20.61 lbs.) max. (with 24 RDIMMs (4 GB RDIMMs) and four Intel Xeon processors 5500 series)	
Software	
Operating Systems	
<ul style="list-style-type: none"> • OpenSolaris • Oracle Solaris • Oracle Linux 	<ul style="list-style-type: none"> • Red Hat Enterprise Linux • SUSE Linux Enterprise Server • CentOS

Management	
<ul style="list-style-type: none"> • Advanced on-board management and monitoring enabled by embedded ILOM service processor providing 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, 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 <p>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, updates to</p>	

Linux	
I/O Modules	
<p>Network Express Modules (NEMs)</p> <ul style="list-style-type: none"> Up to two (shared) NEMs per Sun Blade 6000 chassis 	<p>Industry-Standard Hot-Swappable ExpressModule (EMs):</p> <ul style="list-style-type: none"> Supports up to two EMs per server module (one per compute node)

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 X6275 server module, please visit oracle.com/sun or call +1.800.786.0404 to speak to an Oracle representative.



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