

SUN BLADE T6320 SERVER MODULE

KEY FEATURES AND BENEFITS

MAXIMUM SECURITY, SPEED,
AND SCALE IN EFFICIENT
BLADE DESIGN

FEATURES

- Data center workhorse delivering superior performance and power efficiency
- Integrated on-chip cryptographic acceleration and 10 Gigabit Ethernet for secure computing at wire speed
- Up to 8-core and 64 simultaneous execution threads per blade
- Sun Blade Transparent Management, direct management of each server module for seamless integration into existing management infrastructure
- Engineered for superior availability, with hot-swappable disks and no fans or power supply units on the blade

BENEFITS

- Drive up utilization, drive down costs, and massively consolidate workloads with built-in, no-cost virtualization technology with Oracle VM Server for SPARC and Solaris Containers
- Accelerate application response times and slash energy consumption with Flash SSDs

Powerful enough to run everything from back-office applications to Web services, Oracle's Sun Blade T6320 server module is designed for fast deployment and maximum eco efficiency, making it highly adaptable to changing data center needs.



The Sun Blade T6320 server module maximizes speed, security, and scalability.

Maximum Reliability

The Sun Blade T6320 server module delivers maximum reliability. Its superior energy-efficient design helps prolong the life span of heat-sensitive components, and its advanced modular design helps minimize repair time, thereby greatly improving serviceability. It packs considerably more performance into a compact footprint than competing systems, protecting IT investments by helping ensure scalability today and into the future. Its management features streamline and simplify administration and maintenance, further reducing costs.

Powered by chip multithreading (CMT) technology in Oracle's Sun UltraSPARC T2 processor, the server module can execute up to 64 application threads—the best in the industry. Dual, multithreaded 10 Gigabit Ethernet, integrated on the UltraSPARC T2 processor, delivers up to 10x the performance of current network interface cards, without the cost of the cards.

The Sun Blade T6320 server module supports both, Oracle Solaris Operating System and OpenSolaris OS. The free and open Solaris OS is a proven, industry leading operating system with features designed to save your business time and money.

Sun Blade T6320 Server Module Specifications

Architecture	
Processor	
Four-core 1.2 GHz, eight-core 1.4 GHz, or eight-core 1.6 GHz UltraSPARC T2 processors; one processor per system, maximum 64 threads	
Threads	Power Consumption
Up to 64 simultaneous execution threads	Nominal 95 W
Processor Architecture	Cache per Processor
SPARC V9, ECC-protected	16 KB instruction, 8 KB primary data cache, 4 MB integrated L2
Additional Features	
<ul style="list-style-type: none"> • Up to eight floating-point units • Onboard cryptography supporting 10 embedded security industry-standard ciphers including DES, 3DES, AES, RC4, SHA1, SHA256, MD5, RSA to 2048 key, ECC, CRC32 	
Main Memory	
Support for 2 GB, 4 GB, and 8 GB fully buffered ECC-registered DDR2 DIMMs at 667 MHz; 16 DIMM slots with extended ECC and DRAM supporting a maximum of 128 GB	
Interfaces	
Network	
Two 10/100/1000 Base-T Ethernet ports using the Intel 82571EB Gigabit Ethernet transceiver, one dedicated 10/100 Base-T Ethernet port for the management network, two optional 10 GB XAUI Ethernet ports	
Storage	
<ul style="list-style-type: none"> • Eight 3.0 Gb/sec SAS/SATA interfaces using the LSI SAS1068E controller • Four SAS interfaces to each of the small form factor (SFF) SAS/SATA drive bays with RAID 0, 1 support • Four SAS interfaces to the midplane • Supported drive with 32-GB SATA SSD, 500GB 7,200 rpm SATA, 146GB 10,000 rpm SAS, 300GB 10,000 rpm SAS 	
Midplane I/O	
One 10/100 Ethernet management port to Chassis Monitoring Module (CMM). Two x8 PCIe links to 2 ExpressModules. Two Gigabit Ethernet, two 10Gigabit XAUI and four 3.0Gb SAS links to 2 Sun Blade 6000 Multi-Fabric NEMs. 10GbE XAUI requires optional T6320 XAUI Passthrough Fabric Expansion Module X4822A.	
Front Panel I/O	Drive Bays
Expansion bus: Eight eight-lane PCIe slots, two shared with 10 Gb/sec Ethernet slots USB: Four USB 2.0 ports	Supporting SAS/SATA SFF disks and solid-state drives (SSD)

Software
Operating System
Solaris 10
Networking
ONC, ONC+, NFS, WebNFS, TCP/IP, SunLink, OSI, MHS, IPX/SPX, SMB technologies, and XML

Management	
Built-in Integrated Lights Out Manager (ILOM) with remote Keyboard/Video/Mouse/Storage, consistent with Sun x64 servers, delivering direct manageability, full monitoring of blade by SNMP, secure access and control, and graphical user interface and comprehensive command line interface (CLI) emulating ALOM	
Oracle Enterprise Manager	
Advanced hardware management enabling discovery, grouping, bare metal provisioning, and hardware and OS monitoring	
Dimensions and Weight	
<ul style="list-style-type: none"> • Height: 44.45 mm (1.75 in.) • Width: 327.15 mm (12.88 in.) • Depth: 496.82 mm (19.56 in.) 	<ul style="list-style-type: none"> • Weight: 7 kg (15.4 lb.), without disks and memory • Weight: 7.77 kg (17.1 lb.), fully configured
Virtualization	
Integrated, open source, no-cost virtualization technology providing the flexibility and power of 64 virtual systems in a single server	

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 T6320 server module, please visit oracle.com/sun or call +1.800.786.0404 to speak to an Oracle representative.



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