

## Sun Blade™ T6320 Server Module

Extreme performance, radical efficiency



### Highlights

- Same features and performance of Sun SPARC Enterprise T5120 server with the added efficiency and serviceability of a blade server
- Energy efficiency — consuming up to 15 percent less energy than comparable rack servers and up to 40 percent less than competing x86 and RISC blade servers
- Industry's first built-in 10 Gigabit Ethernet uplinks and crypto processors
- Choice of multiple OS and processor architectures within the same chassis
- Perfect for application consolidation with the proven resiliency, virtualization, and identity management of the Solaris™ 10 OS
- 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



Sun Blade T6320 server module can run anything from back office and database applications to Web services and virtualization projects, in less space and less electricity than ever before. It reduces environmental impact and TCO and provides fast, seamless deployment and integration with existing infrastructures. The server module accelerates both time to market and response to business change, while it helps reduce your IT administration and maintenance costs.

The Sun Blade T6320 server module also delivers maximum reliability. Its superior energy-efficient design helps prolong the lifespan 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 CoolThreads™ technology in the UltraSPARC T2 processor, the server module

can execute up to 64 application threads — the best in industry. The “server on a chip” design integrates 10 Gigabit Ethernet technology and I/O directly on the chip — enabling 12 times higher network bandwidth without additional NIC costs, for a total bandwidth of nearly 40 Gb per second.

The Sun Blade T6320 server module offers a choice of multiple Linux distributions and the free, open Solaris™ Operating System — the industry's most advanced enterprise-class OS. Open standards and interoperability not only eliminate vendor lock-in for your business today, but also help ensure the protection of your IT investment into the future.

# Sun Blade T6320 Server Module Specifications

## Architecture

### Processor

Four-, six-, or eight-core 1.2-GHz, or eight-core 1.4-GHz UltraSPARC T2 processor

### Threads

Up to 64 simultaneous execution threads

### Power consumption

Nominal 95 W

### Additional features

- Up to eight floating-point units
- On-board cryptography supporting 10 embedded security industry-standard ciphers including: DES, 3DES, AES, RC4, SHA1, SHA256, MD5, RSA to 2048 key, ECC, CRC32

### Processor architecture

SPARC® V9, ECC-protected

### Cache per processor

16-KB instruction, 8-KB primary data cache, 4-MB integrated L2

### Main memory

Support for 1-, 2-, and 4-GB fully buffered ECC-registered DDR2 DIMMs at 667 MHz; 16 DIMM slots with extended ECC and DRAM supporting a maximum of 64 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

Eight 3.0-Gbps SAS/SATA interfaces using the LSI SAS1068E controller; four SAS interfaces

to each of the small form factor (SFF) SAS/SATA disk drive bays with RAID 0,1 support; optional RAID 5 protection and battery-protected write cache; four SAS interfaces to the midplane

### Midplane I/O

Four 8x PCI Express busses, one per Network Express Module (NEM), one per ExpressModule (EM) — four 3.0-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

Exposed via dongle cable; serial console to server module ILOM; dual USB ports for keyboard, mouse, or storage

### Drive bays

Four SFF disk drive bays supporting SAS/SATA SFF disk drives

## Software

### Operating systems

The latest Solaris 10 8/07  
Sun Java Enterprise System Release 5 (90-day evaluation)

Logical Domains Manager 1.0.1

Logical Domains MIB 1.0.1

Sun Studio 12

Cool Tools for CoolThreads servers

### Networking

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

### Management

Built-in Integrated Lights Out Manager (ILOM), consistent with Sun x64 servers, delivering direct manageability, full monitoring of blade

## Learn More

To learn more about the Sun Blade T6320 server module, go to: [sun.com/blades](http://sun.com/blades)

by SNMP, secure access and control, and graphical user interface and comprehensive command line interface (CLI) emulating ALOM

### Sun Connection Management Suite

Advanced hardware management enabling discovery, grouping, bare metal provisioning, and hardware and OS monitoring

## Dimensions and weight

### Height

44.45mm (1.75 in.)

### Width

327.15mm (12.88 in.)

### Depth

496.82mm (19.56 in.)

### Weight (without disks and memory)

7 kg (15.4 lbs.)

### Weight (fully configured)

7.77 kg (17.1 lbs.)

## Virtualization

Integrated, open-source, no-cost virtualization technology providing the flexibility and power of 64 virtual systems in a single server

Preloaded software: Logical Domains Manager 1.0.1 and Logical Domains MIB 1.0.1