



Sun Fire™ T2000 Server

Delivering breakthrough throughput with dramatic energy and space savings.



The Sun Fire™ T2000 server sets the new industry standard for throughput performance while offering unequaled energy efficiency, compute density and breakthrough price/performance. Based on the unique Sun UltraSPARC® T1 processor, which features up to eight cores and delivers up to 32 simultaneous threads on a single chip, while drawing only 72 watts of power, the Sun Fire T2000 server will provide your foundation for web, application and database services.

Highlights

- World's first eco responsible server
- Enables up to 32 simultaneous execution threads using CoolThreads™ technology and up to 64 GB main memory
- Chip Multithreading Technology (CMT) UltraSPARC T1 processor
- Industry leading server efficiency as defined by Space, Watts and Performance (SWaP)* metric
- Space efficient, rack-optimized 2 RU design
- Investment protection with SPARC® V9 binary application compatibility
- Enhanced system uptime supported by high on-chip RAS, redundant power supplies and fans, hot-pluggable disk drives, support for hardware RAID (0 + 1), and low component count
- Exceptional expandability and I/O performance from five PCI slots and four Ethernet interfaces
- Preloaded with Solaris 10 OS, Java Enterprise System, and Cool Tools for CoolThreads servers to enable fast development and deployment of software applications
- Available as a Sun™ System Pack, enabling customers to maximize their IT value while lowering total cost of acquisition and ownership

Fueled by Web 2.0 technologies, the demand for network services is growing. And as this demand grows, so does the need for server capacity. But today's datacenters face very real challenges to rapidly deploy applications, manage complexity and server sprawl, and cope with power, cooling and real estate limitations. The Sun Fire T2000 server offers high performance in a minimal space and power footprint. The result: you can serve new customers and communities, save millions in operational costs, and reduce your datacenter's environmental impact. The Sun Fire T2000 server proves that faster can be cooler. Better can be cleaner. Cheaper can be greener.

Keep your costs down with an investment that will handle your growing user, data and transaction needs. Designed and developed for enterprise networked computing, this new Sun Fire server delivers the performance needed for new and advanced services, while dramatically cutting your energy and cooling costs. What's more, the Sun Fire T2000 server is available as a Sun System Pack, which delivers significant advantages over traditional warranty plans by providing enhanced service coverage, automatic OS updates, training credits, and much more.

The Sun Fire T2000 server comes pre-installed with the latest version of the Solaris 10 OS to increase system performance, while protecting your application investments with full binary compatibility. The Solaris 10 OS also delivers unrivaled application availability, security, reliability and virtualization. Solaris 10 OS Containers enable you to create up to 8,000 secure, isolated zones in which to run multiple applications. Logical Domains (LDoms) enables the Sun Fire T2000 server to run multiple isolated operating system instances. The Sun Fire T2000 server is also certified to run multiple Linux distributions, giving you the ultimate choice in the best operating environment or applications.

Key applications

- Web Serving
- Streaming Media
- Security Applications
- Java Application Servers and Virtual Machines
- OLTP Databases
- ERP, CRM, SCM
- Network Infrastructure
- SOA and Business Integration Platforms
- Consolidated Web and Application Infrastructure

Sun Fire T2000 Server Specifications

Processor

Processor	4 or 8 core 1.0 GHz/8 core 1.2 GHz/8 core 1.4 GHz UltraSPARC T1 processor
Architecture	SPARC V9 architecture, ECC Protected
Cache per Processor	<ul style="list-style-type: none"> • 16 KB instruction • 8 KB primary data cache • 3 MB integrated L2

Key RAS Features

- Hot-pluggable disk drives
- Redundant hot-swappable power supplies
- Redundant hot-swappable fans
- Environmental monitoring
- Error correction and parity checking for improved data integrity
- Easy replacement for most component replacements
- Internal Hardware drive mirroring (RAID 1)
- RAID 0 and 1 support

Main Memory

Sixteen DIMM slots, DDR2 with Chipkill and Dram Sparing, ECC registered DIMMs. System maximum of 64 GB. Support for 512 MB, 1 GB, 2 GB, and 4 GB DIMMs

Standard/Integration Interfaces

Network	Four 10/100/1000 Mbps Ethernet
Serial	One DB9 serial port
USB	Four 1.1 USB ports
Expansion Bus	<p>Three PCI-Express (PCI-E) slots for low profile cards (support x1, x4 and x8 width cards)</p> <p>Two PCI-X slots for 64-bit 133 MHz low profile cards (Note: On earlier models, one PCI-X slot may be occupied with a disk controller card)</p>
Network	<ul style="list-style-type: none"> • Advanced Lights Out Management • Management (ALOM) system controller with RJ45 serial and 10/100 Mbps Ethernet ports

Mass Storage and Media

Internal Disk	Up to four 73 GB 2.5 in. 10K rpm SAS disks, providing a maximum capacity of 292 GB. Internal Hardware RAID 1 (mirroring) and RAID 0 (striping) supported.
Internal DVD	One slimline DVD-R/CD-RW
External Disk	<ul style="list-style-type: none"> • Sun StorageTek™ A5200 • Sun StorageTek D240 Media Tray • Sun StorageTek S1 Array • Sun StorageTek T3 Series • Sun StorageTek 3120 Array • Sun StorageTek 3310 Array • Sun StorageTek 3320 Array • Sun StorageTek 3510 Array • Sun StorageTek 3511 Array • Sun StorageTek 3910 Array

- Sun StorageTek 3960 Array
- Sun StorageTek 5210 NAS
- Sun StorageTek 6120 Array
- Sun StorageTek 6130 Array
- Sun StorageTek 6140 Array
- Sun StorageTek 6320 Array
- Sun StorageTek 6540 Array
- Sun StorageTek 6920 System

External Tape	<ul style="list-style-type: none"> • Sun StorageTek DAT 72 Tape Drive • Sun StorageTek Tape Drives, including SDLT 600, SDLT 320, LTO 1, LTO 2, LTO 3 • Sun StorageTek C2 Autoloader • Sun StorageTek C4 Tape Library • Sun StorageTek L100 Tape Library • Sun StorageTek L180 Tape Library • Sun StorageTek L25 Tape Library • Sun StorageTek L500 Tape Library • Sun StorageTek L700 Tape Library • Sun StorageTek L7 Autoloader • Sun StorageTek L8 Autoloader
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Software

Operating System	Solaris 10 OS 11/06
Preloaded Software	<ul style="list-style-type: none"> • Sun Java™ Enterprise System (90 day evaluation) • Cool Tools for CoolThreads servers (includes CoolTuner, Sun Studio 11, GCC for SPARC systems)

Power Supplies

Two redundant, hot swappable power supplies	
Typical Operating Power	275W (note: earlier models containing 550W power supplies have a typical operating power of 325W)

Environment

AC Power	100-240 VAC, 50-60 Hz (4.5A @ 100 to 120 VAC, 2.5A @ 200 to 240 VAC)
Operating	5 to 35°C, 20 to 80% relative humidity, non-condensing, 27°C wet bulb
Temperature (operating)	<ul style="list-style-type: none"> • Sea level to 3000 ft (900 m): 5° to 35°C • Above 3000 ft (900 m): Decrease maximum temperature as altitude increases, 1.6°F/1000 ft (1°C/300 m)
Relative Humidity (operating)	20 to 80% RH, non-condensing, 27°C wet bulb
Altitude (operating)	0-3,000 m (0-10,000 ft)
Temperature (non-operating)	<ul style="list-style-type: none"> • Sea level to 3000 ft (900 m): -40° to 60° C • Above 3000 ft (900 m): -40 to 60°C
Relative Humidity (non-operating)	98% RH 38°C, non-condensing
Altitude (non-operating)	0-12,000 m (0-40,000 ft)
Declared Acoustics	<ul style="list-style-type: none"> • Operating/Idling Acoustic Noise 7.7B (LwAd, 1B=10 dB) • Operating/Idling Acoustic Noise 62 dB (LpAm, bystander positions)

Get the Details.

Learn more about the Sun Fire T2000 Server by visiting sun.com/T2000.

Dimensions and Weight

Height	89 mm (3.5 inches)
Width	440 mm (17.3 inches)
Depth	617 mm (24.3 inches)
Weight	40 lbs (approximate, includes 2 power supplies, 2 disk drives, 1 DVD)

Regulations (meets or exceeds the following requirements)

Safety	UL/CSA-60950-1, EN60950-1, IEC60950-1 CB Scheme with all country deviations, IEC825-1, 2, and CFR21 part 1040
Ergonomics	EK1-HTB-2000
RFI/EMC	EN55022/CISPR22 Class A, FCC CFR47 Part 15 Class A, EN61000-3-2, EN61000-3-3
Immunity	EN55024/CISPR24
Telecommunications	EN300-386
Regulatory Markings	CE, FCC, ICES-003, C-tick, VCCI, GOST-R, MIC, UL/cUL, UL/DEMKO/GS, UL/S-mark, BSMI, CCC

Upgrades

The new Sun Fire T2000 Servers are eligible for the Upgrade Advantage Program. Customers can trade-in and upgrade their old Sun or non-Sun servers and receive a trade-in allowance applied toward the list price of their new Sun Fire T2000 Server. With this program customers have the option to trade-in their servers on a one for one basis or consolidating multiple servers to single Sun Fire T2000 Servers.

Warranty

Hardware Support	1 year
Software Install	90 days
Call Response	8 hours
Delivery	Next Business Day

Other

Newer models of this server comply with the Restriction of Hazardous Substances (RoHS) directive 2002/95/EC.H.

For more details on the Upgrade Advantage Program go to sun.com/ibb/coolthreads



* SWaP = Space, Watts and Performance as defined by the formula Performance / Space / Power

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