Sun Fire™ T2000 Server

Discover a breakthrough in throughput and energy efficiency for your next generation datacenter

Sun's Unique CoolThreads™ Technology Sets the New Standard for Performance, Space and Power Efficiency

The Sun Fire T2000 Server sets the new industry standard for throughput performance, with unequaled energy efficiency and compute density. The Sun Fire T2000 Server breaks through data-center space, power and cooling constraints, providing the ideal platform for online transactions and web services. Using Sun's Chip Multithreading Technology (CMT), the Sun Fire T2000 Server delivers the highest level of compute density and price performance.

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.

Take the Sun Fire T2000 Server to a New Level

Sun™ System Packs combine the Solaris 10 Operating System (OS), and Sun Spectrum℠ Support to help simplify installation and implementation right from the start and keep your system running smoothly. Sun can help you reduce acquisition costs by offering combined hardware, software and services at a lower price than that of the individual components purchased separately. In fact, Sun System Packs are often available for less than that of other server prices alone. Think of them as complete systems with built-in investment protection.

The Sun Fire T2000 Server is the newest member of Sun's powerful line of SPARC servers. Combined with the power of the Solaris™ 10 Operating System, the Sun Fire T2000 Server delivers unprecedented throughput with dramatic savings in space and power, while protecting your application investment with full binary compatibility.

Key Feature Highlights

- Enables up to 32 simultaneous execution threads using CoolThreads™ technology
- Chip Multithreading Technology (CMT) UltraSPARC T1 processor
- Industry leading server efficiency as defined by Space, Watts and Performance (SWaP)* metric
- Preloaded Solaris™ 10 Operating System
- Pre-installed Java™ Enterprise System Software
- Space efficient, rack-optimized 2 RU design
- Investment protection with SPARC® V9 binary application compatibility
- World's first eco-responsible server
- 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

Key Applications

Proxy caching
Email service
Streaming media
Web serving
Java application servers and Java Virtual Machines
ERP, CRM, OLTP
Data warehouses and marts
Data analysis and mining
Application development
Networking
Security
Systems management
SOA and Business Integration implementation

Sun Fire T2000 Server Specifications

Processor

Processor	4, 6, 8, core 1.0 GHz/8 core 1.2 GHz UltraSPARC® T1 processor
Architecture	SPARC V9 architecture, ECC Protected
Cache per Processor	16 KB instruction 8 KB primary data cache 3 MB integrated L2

Key RAS Features

	Internal hardware drive mirroring (RAID 1)
	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

Main Memory

	Sixteen DIMM slots, DDR2 with Chipkill and DRam Sparing, ECC registered DIMMs, system maximum of 32 GB Support 512MB, 1GB and 2 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	Three PCI-Express (PCI-E) slots for low profile cards (support x1, x4 and x8 width cards) Two PCI-X slots for 64-bit 133 MHz low profile cards (Note: On earlier models, one PCI-X slot is occupied with a disk controller card)
Network Management	Advanced Lights Out 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" 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	Sun StorEdge A5200 Sun StorEdge D240 Media Tray Sun StorEdge S1 Array Sun StorEdge T3 Series Sun StorEdge 3120 Array Sun StorEdge 3310 Array Sun StorEdge 3320 Array Sun StorEdge 3510 Array Sun StorEdge 3511 Array Sun StorEdge 3910 Array Sun StorEdge 3960 Array Sun StorEdge 5210 NAS Sun StorEdge 6120 Array Sun StorEdge 6130 Array Sun StorEdge 6320 Array Sun StorEdge 6920 System
External Tape	Sun StorEdge DAT 72 Tape Drive Sun StorEdge Tape Drives, including SDLT 600, SDLT 320, LTO 1, LTO 2, LTO 3 Sun StorEdge C2 Autoloader Sun StorEdge C4 Tape Library Sun StorEdge L100 Tape Library Sun StorEdge L180 Tape Library Sun StorEdge L25 Tape Library Sun StorEdge L500 Tape Library Sun StorEdge L700 Tape Library Sun StorEdge L7 Autoloader Sun StorEdge L8 Autoloader

Software

Operating System	(minimum version) Solaris 10 1/06 Operating system
Enterprise Infrastructure Software	Sun Java™ Enterprise System software (90 day evaluation)

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)
Temperature (operating)	Sea Level to 3000 ft (900m): 5° to 35°C Above 3000 ft (900m): Decrease maximum temperature as altitude increases, 1.6°F/1000 ft (1°C/300m)
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)	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	Operating/Idling Acoustic Noise 7.7B (LwAd, 1B=10dB) Operating/Idling Acoustic Noise 62dB (LpAm, bystander positions)

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-ITB-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

Get the details.

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

ULTRASPARC solaris

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

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