



# 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 datacenter 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.

We are redefining the Systems with Full Protection plans.

Full protection. Half the cost. Sun is taking it's new breakthrough technology to an even greater level for your systems investment. With Sun's Full Protection policy, we are now offering the world's first massively threaded sever, the best operating system and all of the support you need to accelerate deployment, reduce risk and lower total cost of ownership.... for as long as you own the server. These Full Protection plans create a valuable connection between you and Sun for long-term proactive service and recurring value.

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 and low component count
- Exceptional expandability and I/O performance from five PCI slots and four Ethernet interfaces
- Significant price advantages on pre-integrated Solaris support service options

### Key Applications

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

## Sun Fire T2000 Server Specifications

### Processor

Processor	4, 6 or 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

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
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### 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: Depending on the server model, one PCI-X slot may be 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
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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
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### Software

Operating System	(minimum version) Solaris 10 3/05 HW2 Operating system
Enterprise Infrastructure Software	Sun Java™ Enterprise System software (90 day evaluation)

### Power Supplies

Two redundant, hot swappable power supplies	
Maximum Operating Input Power	400W
Typical Operating Power	325W

### Environment

AC Power	100-240 VAC, 50-60 Hz (4A @ 100 to 120 VAC, 2A @ 200 to 240 VAC)
Operating	5 to 35°C, 20 to 80% relative humidity, non-condensing, 27°C wet bulb
Non-operating	-40 to 60°C, 98% relative humidity 38°C, non-condensing

### Get the details.

Learn more about the Sun Fire T2000 Server by visiting: [sun.com/T2000](http://sun.com/T2000).

Altitude (operating)	0-3,000 meters (0-10,000 feet)
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	37 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

### Support

System-ready Plan

### 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.

For more details on the Upgrade Advantage Program go to: [sun.com/ibb/coolthreads](http://sun.com/ibb/coolthreads)



\* SWaP = Space, Watts and Performance as defined by the formula Performance / (Space x Power Consumption)

Sun Microsystems, Inc. 4150 Network Circle, Santa Clara, CA 95054 USA Phone 1-650-960-1300 or 1-800-555-9SUN Web [sun.com](http://sun.com)

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09/05 SunWin# 456805

