



Sun Fire™ T1000 Server

The low-cost, high-density, energy-efficient solution for the next-generation datacenter



Highlights

- World's first eco responsible server
- Up to 32 simultaneous execution threads using CoolThreads™ Chip-Multithreading Technology (CMT)
- Industry-leading server efficiency and price/performance as defined by Space, Watts, and Performance (SWaP) metric
- Draws less than 220 Watts of power
- Space-efficient, rack-optimized 1RU design
- Investment protection with SPARC® V9 binary application compatibility
- Support for internal hardware RAID 0 (striping) and RAID 1 (mirroring) at no extra cost
- Significant price advantages on preintegrated Solaris support service options
- Preloaded with the Solaris 10 OS, Java Enterprise System, and Cool Tools for CoolThreads servers to enable fast application development and deployment
- Available as a Sun System Pack to maximize IT value while lowering total cost of acquisition and ownership



Fueled by Web 2.0 technologies, the demand for network services is growing—and so is 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 and cooling costs and real-estate limitations. The answer? Sun Fire™ T1000 servers—systems that deliver unparalleled compute density, energy efficiency, and price/performance for the next-generation datacenter build-out.

The Sun Fire T1000 server is powered by the UltraSPARC® T1 processor, which packs from six to eight cores delivering up to 32 simultaneous software threads on a single chip. As a result, the system provides up to five times the throughput-optimized performance of competitors' systems, making it an ideal platform for Web serving, Java Application Server hosting, network infrastructure, and much more.

All that performance comes to you in a low-profile, space-saving 1RU form factor that slides easily into any standard rack and draws about one-fifth the energy consumption of similarly performing systems. This concept—a high-performance system designed for running advanced network services, but with a minimal space and power footprint—is so innovative, we developed the Space, Watts, and Performance (SWaP) metric to give a truer picture of its cost and environmental impact on the next-generation datacenter.

What's more, the Sun Fire T1000 server comes preinstalled with the most highly available,

secure, reliable UNIX® operating system on the planet—the Solaris 10 OS. With the Solaris Application Guarantee, we ensure Solaris binary compatibility from release to release and source compatibility between UltraSPARC and x64/x86 processors. Plus, Solaris Containers enable you to safely consolidate multiple applications onto a single system to virtualize your environment, increase utilization rates, and cut system and licensing costs. And the Sun Fire T1000 server is certified to run multiple Linux distributions, giving you real choice in determining the best operating system for your environment.

Best of all, the Sun Fire T1000 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 T1000 server: Proving once again that faster can be cooler, better can be cleaner, and cheaper can be greener.

Sun Fire T1000 Server Specifications

Key applications

- Web serving
- Streaming media
- Security applications
- Java Application Servers
- Java Virtual Machines
- Network infrastructure
- SOA and business integration platforms
- Compute and network node

Processor

Processor	6- or 8-core, 1.0 GHz UltraSPARC T1 processor
Architecture	SPARC® V9 architecture, ECC protected
Cache per processor	16 KB data, 8 KB instruction and 3 MB integrated L2

Main memory

Eight DIMM slots, DDR2 with Chipkill and DRAM Sparing, ECC registered DIMMs, system maximum of 32 GB support for 512 MB, 1 GB, 2 GB, and 4 GB DIMMs

Standard/integration interfaces

Network	Four 10/100/1000 Mb/s Ethernet
Serial	One DB9 serial port
Expansion	One PCI-Express (PCI-E) slot compliant with PCI-E specification Revision 1.0a (supports x1, x4, and x8 cards)
Network management	<ul style="list-style-type: none"> • Advanced Lights Out Management • Management system controller with RJ45 serial and 10/100 Mb/s Ethernet ports

Mass storage and media

Internal disk	<ul style="list-style-type: none"> • One 160 GB 3.5", 7.2K RPM SATA drive, or two 73 GB or 146 GB 2.5", 10K RPM SAS drives • Internal hardware RAID 0 (striping) and RAID 1 (mirroring) supported
External Storage	<p>Sun offers a complete line of best-in-class, innovative storage hardware, software, and solutions—including tape drives, tape libraries, disk storage systems, data management software, and more—along with renowned world-class service and support. Our data management solutions help customers share information more effectively, manage data more efficiently to save money, and reduce risk by making sure that data is available, recoverable, and compliant. For more information, please see sun.com/storagetek</p>

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

One 300W power supply	
Maximum operating input power	220W
Typical operating input power	180W

Environment

AC power	100 to 240 VAC 50 to 60 Hz (2.2A @ 100 to 120 VAC 1.1A @ 200 to 240 VAC)
Operating temperature	<ul style="list-style-type: none"> • Sea level to 900m (3,000 ft.) 5°C to 35°C (41°F to 95°F) • Above 900m (3,000 ft) Decrease maximum temperature as altitude increases, 1°C/300m (1.6°F/1,000 ft.)
Operating humidity	10 to 90% relative humidity, noncondensing
Operating altitude	Up to 3,048m (10,000 ft)
Non-operating temperature	-40°C to 70°C (-40°F to 158°F), 93% relative humidity noncondensing
Declared acoustic	<ul style="list-style-type: none"> • Operating/Idling acoustic noise 7.7B (LwAd, 1B=10 dB) • 66 dB (LpAm, bystander positions)
Regulations (meets or exceeds the following requirements)	
Product safety	UL/CSA-60950-1, EN60950-1, IEC60950-1 CB Scheme with all country deviations, IEC825-1, 2, CFR21 part 1040, CNS14336, GB4943
RFI/EMI	EN55022 Class A, 47 CFR 15B Class A, ICES Class A, VCCI Class A, AS/NZ 3548 Class A, CNS 13438 Class A, KSC 5858 Class A, GB 9254 Class A, EN61000-3-2, GB 17625.1, EN61000-3-3
Immunity	EN55024, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11
Telecommunications	EN300-386
Regulatory	CE, FCC, ICES-003, C-tick, Markings VCCI, GOST-R, BSMI, MIC, UL/cUL, UL/S-mark

Get the details.

Learn more about the Sun Fire T1000 Server by visiting sun.com/T1000

Dimensions and weight

H:	43 mm (1.75 inches); 1 rack unit
W:	425 mm (16.7 inches)
D:	467 mm (18.4 inches)
Weight	9.3 kg (20.5 lb.); without PCI-E card and rack-mounts; 10.9 kg (24 lb.) with slide rails

Warranty

Hardware support	1 year
Software install	90 days
Call response	8 hours
Delivery	Next business day

Upgrades

Sun Fire T1000 servers are eligible for the Upgrade Advantage Program. Customers can trade-in their old Sun or non-Sun servers and receive a discount toward the price of their new Sun Fire T1000 server. For more details on the Upgrade Advantage Program, visit sun.com/ibb/coolthreads

Customer ready systems

Take advantage of the Sun Customer Ready Systems program and have your system tailored to your specific requirements by our factory experts. Learn more at sun.com/crs



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

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