Hardware and Software
Engineered to Work Together

ORACLE'S FULL LINE OF INTEGRATED SUN SERVERS AND STORAGE SYSTEMS

HIGHLIGHTS

- Oracle offers a complete portfolio of Sun products that combines servers, storage, software, and networking to deliver the most-innovative, performance-optimized solutions for the datacenter.

- Sun SPARC Enterprise servers offer the highest reliability, availability, and serviceability (RAS), seamless scalability, world-record performance, and unmatched investment protection.

- Sun x86 servers run on Intel's processors and offer the flexibility of supporting Oracle Solaris, Windows, Linux, Oracle Linux, Oracle VM and VMware OSs.

- Sun Blade modular systems integrate robust x86 and SPARC-based servers, storage, and advanced networking capabilities to support a complex and dynamic mix of IT workloads.

- Ethernet, InfiniBand and Storage Networking products allow the integration of Sun's servers and storage into complete, high-performance infrastructure solutions.

- A full portfolio of Netra carrier-grade SPARC, and x86-based blade and rack servers designed for telco's mission critical workloads.

- Sun Unified Storage Systems help enterprises realize up to a 75 percent cost savings over traditional storage solutions.

- StorageTek tape libraries, tape virtualization, tape drives, tape media, and tape device software are world-class solutions that scale to over 150 petabytes.

See Beyond the Limits

Many enterprises are managing demanding applications and accessing increasing amounts of data. You need computing power that matches your needs and budget, where and when it matters most. Oracle's Sun solutions can support your business needs from end to end, throughout the lifecycle of your datacenter.

More than 40 years of systems and storage expertise and innovative thinking have gone into creating the Sun servers and storage. These innovations offer some of the most reliable, scalable, and energy-efficient systems in the industry, which are the core building blocks for the mission-critical enterprise computing, enterprise application environments, virtualization and cloud deployments. Oracle's complete portfolio of Sun products includes servers, storage, software, networking products, and integrated systems that deliver the most-innovative, performance-optimized solutions for the datacenter. These systems help datacenter managers reduce costs, conserve energy, and operate more efficiently. Such breakaway IT economics allow our customers to run their applications with speed, simplicity, and savings.

Oracle's solutions are built on open standards to work with your existing infrastructure and can help your company grow. An open approach to storage offers enterprise reliability and scalability at one-tenth the cost of other solutions. The Oracle Solaris Zettabyte File System (ZFS) and award-winning Sun storage hardware solutions provide incredible data integrity and can significantly reduce downtime. Innovative Sun hardware delivers up to four times the performance of competitive servers for as little as one-fifth the cost. Sun networking solutions eliminate the bottleneck and ensure cross-functional bandwidth for optimal performance. And with Oracle's solutions, you can accomplish more in less space, using less power, while spending less.

The Right Solutions for Your Needs

The deployment of IT resources is vital to enterprises. You want to plan your IT projects carefully so that you can select the right servers, storage products, and infrastructure to make your network as efficient as possible. An open and scalable design approach lets you mix and match Sun compute, storage, and network components so that all resources in the datacenter work as a powerful and integrated system, driving better efficiency across the IT infrastructure and supporting your business needs from end to end.

Enterprise Solutions

Consolidating storage farms and single-application servers onto fewer, high-performance systems can be the key to positioning your business for the future. Oracle offers industry-leading, eco-efficient solutions based on enterprise applications

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and/or consolidation and virtualization needs. These solutions are designed to address IT issues and business needs related to cost reductions, increased efficiencies, and eco-sustainability.

Virtualization Solutions

Your company can save money, energy, and space by taking advantage of Oracle's complete desktop-to-datacenter virtualization portfolio. Our virtualization solutions can help you make more of your IT resources than ever before. Sun server and storage platforms have the power and throughput to make virtualization and consolidation real advantages for your business.

Web Infrastructure Solutions

In today's Web 2.0 world, you need network applications and services that help you connect, develop, and grow your communities. To fully exploit the Web's potential, you need time-tested solutions that provide the speed, flexibility, and performance to enable implementation in a matter of weeks. For enterprises focused on increasingly important Web-based services, Sun systems and storage provide all you need to build, optimize, and protect your Web-tier infrastructure throughout your entire datacenter lifecycle.

Sun Eco Innovation Solutions

If your company is ready to minimize energy costs and reduce its environmental impact, talk to us about innovative Sun solutions that you can deploy today. We can help you transform your technology infrastructure into a more eco-friendly datacenter with our simple, three-step approach: assess, optimize, and virtualize. Plus, with our award-winning, ecologically sound Sun servers, going green is easy.

Warranty Programs

Visit oracle.com/sun/warranty for information on Oracle's global warranty support for Sun products.

How to Use This Guide

This guide features all Sun's servers and storage systems, with each section listing the full line of products and their specifications.

Sun Server Products

Designed with your business in mind, Sun servers provide the performance, scalability, energy efficiency, and cost-effectiveness that help you meet your business needs in mission-critical enterprise computing, enterprise application environments, virtualization and cloud deployments. With Oracle's complete family of Sun servers—Sun x86 clustered systems including the blade and rackmount servers, SPARC Enterprise servers, and Netra servers—a truly flexible IT ecosystem is a reality.

Sun Storage Products

Sun storage solutions from Oracle are built on open standards to work with your existing infrastructure. Sun's innovative use of industry-standard hardware delivers two to three times the density, using 50 percent less in power and cooling than competing closed storage. With Sun's open storage solutions, you can accomplish more in less space, while consuming less power.

Sun Networking Products

Oracle offers a complete portfolio of Sun networking products for servers and storage. Ethernet, InfiniBand and Storage networking products allow the integration of Sun's servers and storage into complete, high-performance infrastructure solutions.
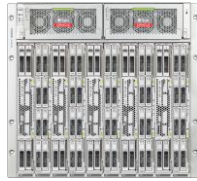
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Sun Servers Product Guide

	SPARC ENTERPRISE ENTRY-LEVEL			
Name	**SPARC T3-1 Server**	**SPARC T3-2 Server**	**Sun SPARC Enterprise T5120 Server**	**Sun SPARC Enterprise T5220 Server**
Processor/CPUs	16-core 1.65 SPARC T3 processors; one processor per system, max. 128 threads	16-core 1.65 SPARC T3 processors; two processors per system, max. 256 threads	4-core 1.2 GHz, 8-core 1.2 GHz, 8-core 1.4 GHz, or 8-core 1.6 GHz UltraSPARC T2 processors; one processor per system, max. 64 threads	4-core 1.2 GHz, 8-core 1.2 GHz, 8-core 1.4 GHz, or 8-core 1.6 GHz UltraSPARC T2 processors; one processor per system, max. 64 threads
Memory	Up to 128 GB	Up to 256 GB	Up to 128 GB	Up to 128 GB
Mass storage				
Internal disk	Up to eight or sixteen 300 GB 2.5 in. SAS drives, depending on selected backplane	Up to six 300 GB 2.5 in. SAS drives. Internal DVD: one slim SATA DVD+/-RW.	Up to eight 146 GB or 300 GB 2.5 in. SAS drives, depending on selected backplane or up to four 32 GB 2.5 in. SATA SSDs	Up to sixteen 146 GB or 300 GB 2.5 in. SAS drives, depending on selected backplane or up to eight 32 GB 2.5 in. SATA SSDs
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage	oracle.com/storage
Network	Four 10/100/1,000 Mb/sec Ethernet ports; up to 2x optional 10 GbE XAUI connections and six PCIe module slots	Four 10/100/1,000 Mb/sec Ethernet ports; up to 4x optional 10 GbE XAUI connections and 10 PCIe module slots	Four 10/100/1,000 Mb/sec Ethernet ports; up to 2x optional 10 GbE XAUI connections	Four 10/100/1,000 Mb/sec Ethernet ports; up to 2x optional 10 GbE XAUI connections
Power/cooling				
Power	Two hot-swappable AC 1200 W redundant (N+1) power supplies	Two hot-swappable AC 2000 W redundant (N+1) power supplies	Two hot-swappable AC 720 W "Climate Saver" power supply units, providing N+1 redundancy, come standard. Also available is a DC 660 W power supply unit.	Two hot-swappable AC 750 W or 1,100 W power supply units, providing N+1 redundancy. DC 1,200 W power supply units are also available.
Operating temperature	Sea level to 3,000 ft. (900 m): 41°F to 95°F (5°C to 35°C)	Sea level to 3,000 ft. (900 m): 41°F to 95°F (5°C to 35°C)	Sea level to 2,953 ft. (900 m): 41°F to 95°F (5°C to 35°C)	Sea level to 2,953 ft. (900 m): 41°F to 95°F (5°C to 35°C)
Nonoperating temperature	-40°F to 149°F(-40°C to 65°C); IEC 60068-2-1 Test Ab and 60068-2-2 Test Bb	-40°F to 149°F (-40°C to 65°C); IEC 60068-2-1 Test Ab and 60068-2-2 Test Bb	-40°F to 149°F(-40°C to 65°C); IEC 60068-2-1 Test Ab and 60068-2-2 Test Bb	-40°F to 149°F (-40°C to 65°C); IEC 60068-2-1 Test Ab and 60068-2-2 Test Bb
Rack units	2U	3U	1U	2U
Physical specifications				
Height	3.49 in. (88.65 mm)	5.11 in. (129.85 mm)	1.746 in. (44 mm)	3.49 in. (88 mm)
Width	17.6 in. (447 mm)	17.185 in. (436.5 mm)	16.75 in. (425 mm)	16.75 in. (425 mm)
Depth	26.5 in. (673.1 mm)	28.81 in. (732 mm)	28.125 in. (714 mm)	28.125 in. (714 mm)
Weight	Approximately 60 lb. (27.2 kg)	Approximately 80 lb. (36.28 kg)	Approximately 40 lb. (18 kg)	Approximately 55 lb. (25 kg)
Operating system	Oracle Solaris 10 9/10 Support for Solaris 10 10/09 (U8) + MU9 (Maintenance Update 9)	Oracle Solaris 10 9/10 Support for Solaris 10 10/09 (U8) + MU9 (Maintenance Update 9)	Oracle Solaris 10 8/07, Oracle Solaris 10 5/08, Oracle Solaris 10 10/08, Oracle Solaris 10 5/09, Oracle Solaris 10 10/09	Oracle Solaris 10 8/07, Oracle Solaris 10 5/08, Oracle Solaris 10 10/08, Oracle Solaris 10 5/09, Oracle Solaris 10 10/09
Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty

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	SPARC ENTERPRISE ENTRY-LEVEL		
Name	Sun SPARC Enterprise M3000 Server	Sun SPARC Enterprise T5140 Server	Sun SPARC Enterprise T5240 Server
Processor/CPUs	Quad-core or dual-core 2.75 GHz SPARC64 VII processor; one processor per system; two simultaneous threads per core	4-, 6-, and 8-core 1.2-GHz or 8-core 1.4-GHz UltraSPARC T2 Plus processors; two processors per system, max. 128 threads	4-, 6-, and 8-core 1.2 GHz, 8-core 1.4 GHz, 8-core 1.6 GHz UltraSPARC T2 Plus processors; two processors per system, max. 128 threads
Memory	Up to 64 GB	Up to 128 GB	Up to 256 GB
Mass storage			
Internal disk	Up to four 300 GB SAS disks	Up to eight 146 GB or 300 GB 2.5 in. SAS drives, depending on selected backplane or up to four 32 GB 2.5 in. SATA SSDs	Up to sixteen 146 GB or 300 GB 2.5 in. SAS drives, depending on selected backplane or up to eight 32 GB 2.5 in. SATA SSDs
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage
Network	Four GbE ports	Four 10/100/1,000 Mb/sec Ethernet ports; up to 2x optional 10 GbE XAUI connections	Four 10/100/1,000 Mb/sec Ethernet ports; up to 2x optional 10 GbE XAUI connections
Power/cooling			
Power	Up to two hot-swappable power supply units	Two hot-swappable AC 760 W or DC 660 W power supply units, providing N+1 redundancy	Two hot-swappable AC 1,100 W power supply units, providing N+1 redundancy. Also available are DC 1,200 W power supply units.
Operating temperature	At sea level: 41°F to 95°F (5°C to 35°C)	Sea level to 3,000 ft. (900 m): 41°F to 95°F (5°C to 35°C)	Sea level to 3,000 ft. (900 m): 41°F to 95°F (5°C to 35°C)
Nonoperating temperature	-4°F to 140°F (-20°C to 60°C), 93% relative humidity, noncondensing	-40°F to 149°F (-40°C to 65°C)	-40°F to 149°F (-40°C to 65°C)
Rack units	2U	1U	2U
Physical specifications			
Height	3.43 in. (87 mm)	1.746 in. (44 mm)	3.49 in. (88 mm)
Width	16.77 in. (426 mm)	16.75 in. (425 mm)	16.75 in. (425 mm)
Depth	25.91 in. (658 mm	28.125 in. (714 mm)	28.125 in. (714 mm)
Weight	Max. 55.12 lb. (25 kg)	37 lb. (16.78 kg)	52.5 lb. (23.81 kg)
Operating system	Minimum OS support: Solaris 10 10/08 (Update 6 or higher) Note: Solaris 10 10/08 (Updates 6, 7, 8) requires no patches for 2.75GHz support	Oracle Solaris 10 8/07, Oracle Solaris 10 5/08, Oracle Solaris 10 10/08, Oracle Solaris 10 5/09, Oracle Solaris10 10/09	Oracle Solaris 10 8/07, Oracle Solaris 10 5/08, Oracle Solaris 10 10/08, Oracle Solaris 10 5/09, Oracle Solaris 10 10/09
Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty

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	SPARC ENTERPRISE MID-RANGE			
Name	**SPARC T3-4 Server**	**Sun SPARC Enterprise T5440 Server**	**Sun SPARC Enterprise M4000 Server**	**Sun SPARC Enterprise M5000 Server**
Processor/CPUs	Two or four SPARC T3 processors at 1.65 GHz, 16 cores per processor.	One to four UltraSPARC T2 Plus processors per system. Max. 256 threads; 8-core 1.2 GHz, 1.4 GHz, or 1.6 GHz	Mix and match up to four SPARC64 VI dual-core or SPARC64 VII quad-core processors; SPARC64 VI: 2.15 GHz; SPARC64 VII: 2.53 GHz	Mix and match up to eight SPARC64 VI dual-core or SPARC64 VII quad-core processors; SPARC64 VI: 2.15 GHz; SPARC64 VII: 2.53 GHz
Memory	Up to 512 GB	Up to 512 GB	Up to 256 GB	Up to 512 GB
Mass storage				
Internal disk	Up to eight 300 GB 2.5 in. SAS drives	Up to four 146 GB or 300 GB 2.5 in. SAS drives or up to four 32 GB 2.5 in. SATA SSDs	Up to two 2.5 in. SAS boot disks	Up to four internal 2.5 in. SAS boot disks
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage	oracle.com/storage
Network	Two optional QSFP ports (10G XAUI network), four 1G network ports (two Kawela NICs) and 16 PCIe module slots	Four 10/100/1,000 Mb/sec Ethernet ports; up to 2x optional 10 GbE XAUI connections, four 8-lane PCIe, two 8-lane PCIe slots with 16-lane connectors and two additional 8-lane PCIe or 10 Gb/sec Ethernet expansion slots	Two GbE; up to four PCIe slots, one PCI-X slot; up to 25 PCIe or PCI-X slots with external I/O expansion unit	Two GbE; up to eight PCIe slots, two PCI-X slots; up to 50 PCIe or PCI-X slots with external I/O expansion unit
Power/cooling				
Power	Four hot-swappable AC 2,060 W redundant (2 + 2) power supplies	Four hot-swappable AC 1,120 W redundant (2 + 2) power supply units	100–240 V AC; two power cords	100–240 V AC; four power cords
Operating temperature	**Sea level to 3,000 ft. (900 m): 41°F to 95°F (5°C to 35°C)**	41°F to 95°F (5°C to 35°C)	41°F to 95°F (5°C to 35°C)	41°F to 95°F (5°C to 35°C)
Nonoperating temperature	-40°F to 149°F (-40°C to 65°C), maximum altitude 40,000 ft.	-40°F to 149°F(-40°C to 65°C)	-4°F to 140°F (-20°C to 60°C)	-4°F to 140°F (-20°C to 60°C)
Rack units	5U	4U	6U	10U
Physical specifications				
Height	8.62 in. (219 mm)	6.92 in. (176 mm)	10.34 in. (26.3 cm)	17.33 in. (44.02 cm)
Width	17.5 in. (445 mm)	17.5 in. (445 mm)	17.48 in. (44.4 cm)	17.33 in. (44 cm)
Depth	27.6 in. (700 mm)	24.9 in. (633 mm)	31.9 in. (81 cm)	31.9 in. (81 cm)
Weight	Max. 175 lb. (79 kg)	Approximately 88 lb. (40 kg)	185 lb. (84 kg)	275 lb. (125 kg)
Operating system	Oracle Solaris 10 9/10 Support for Solaris 10 10/09 (U8) + MU9 (Maintenance Update 9)	Oracle Solaris 10 OS 8/07 plus patches or later	SPARC64 VII (2.53GHz): Solaris 10 8/07) or later; SPARC64 VI (2.15GHz): Solaris 10 (11/06) or later	SPARC64 VII (2.53GHz): Solaris 10 (8/07) or later; SPARC64 VI (2.15GHz): Solaris 10 (11/06) or later
Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty

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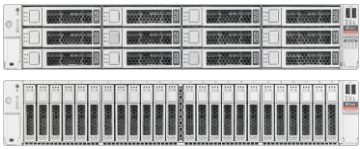|	SPARC ENTERPRISE HIGH-END		
Name	**Sun SPARC Enterprise M8000 Server**	**Sun SPARC Enterprise M9000 Server— 32 CPU**	**Sun SPARC Enterprise M9000 Server— 64 CPU**
Processor/CPUs	Mix and match up to 16 SPARC64 VI dual-core or SPARC64 VII quad-core processors; SPARC64 VI: 2.28 GHz to 2.4 GHz; SPARC64 VII: 2.88 GHz	Mix and match up to 32 SPARC64 VI dual-core or SPARC64 VII quad-core processors; SPARC64 VI: 2.28 GHz to 2.4 GHz; SPARC64 VII: 2.88 GHz	Mix and match up to 64 SPARC64 VI dual-core or SPARC64 VII quad-core processors; SPARC64 VI: 2.28 GHz to 2.4 GHz; SPARC64 VII: 2.88 GHz
Memory	Up to 1 TB	Up to 2 TB	Up to 4 TB
Mass storage			
Internal disk	Up to 16 internal 2.5 in. SAS boot disks, four per IOU	Up to 32 internal 2.5 in. SAS boot disks, four per IOU	Up to 64 internal 2.5 in. SAS boot disks, four per IOU
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage
Optical drive	N/A	N/A	N/A
Network	Up to 32 PCIe slots per system; up to 112 PCIe or PCI-X slots with the optional external I/O expansion unit	Up to 64 PCIe slots per system; up to 224 PCIe or PCI-X slots with the optional external I/O expansion unit	Up to 128 PCIe slots per system; up to 288 PCIe or PCI-X slots with the optional external I/O expansion unit
Power/cooling			
Power	200–240 V AC single-phase, three 30 A power cords; 208 V AC 3-phase DELTA, two 50 A direct-wired power connections; 415 V AC 3-phase, two 30 A direct-wired power connections, double power cords for dual power grid support	200–240 V AC single-phase, five 30 A power cords; 208 V AC 3-phase DELTA, two 50 A direct-wired power connections; 415 V AC 3-phase, two 30 A direct-wired power connections, double power cords for dual power grid support	200–240 V AC single-phase, five 30 A power cords; 208 V AC 3-phase DELTA, two 50 A direct-wired power connections; 415 V AC 3-phase, two 30 A direct-wired power connections, double power cords for dual power grid support
Operating temperature	41°F to 89.6°F (5°C to 32°C)	41°F to 89.6°F (5°C to 32°C)	41°F to 89.6°F (5°C to 32°C)
Nonoperating temperature	32°F to 122°F (0°C to 50°C)	32°F to 122°F (0°C to 50°C)	32°F to 122°F (0°C to 50°C)
Rack units	N/A	N/A	N/A
Physical specifications			
Height	70.9 in. (180 cm)	70.9 in. (180 cm)	70.9 in. (180 cm)
Width	29.5 in. (75 cm)	33.5 in. (85 cm)	65.9 in. (167.4 cm)
Depth	49.6 in. (126 cm)	49.6 in. (126 cm)	49.6 in. (126 cm)
Weight	1,543 lb. (700 kg)	2,072 lb. (940 kg)	4,145 lb. (1,880 kg)
Operating system	SPARC64 VI (2.28 GHz, 2.4 GHz): Oracle Solaris 10 11/06 or later; SPARC64 VII (2.88 GHz): Oracle Solaris 10 10/08 or Oracle Solaris 10 8/07 with the Oracle Solaris 10 10/09 Patch Bundle and the Sun Alert Patch Cluster	SPARC64 VI (2.28 GHz, 2.4 GHz): Oracle Solaris 10 11/06 or later; SPARC64 VII (2.88 GHz): Oracle Solaris 10 10/08 or Oracle Solaris 10 8/07 with the Oracle Solaris 10 10/09 Patch Bundle and the Sun Alert Patch Cluster	SPARC64 VI (2.28 GHz, 2.4 GHz): Oracle Solaris 10 11/06 or later; SPARC64 VII (2.88 GHz): Oracle Solaris 10 10/08 or Oracle Solaris 10 8/07 with the Oracle Solaris 10 10/09 Patch Bundle and the Sun Alert Patch Cluster
Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty

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BLADE MODULAR SYSTEMS*		
Name	**Sun Blade 6000 Chassis**	**Sun Blade 6048 Chassis**
Processor/CPUs	UltraSPARC, Intel Xeon	UltraSPARC, Intel Xeon
Memory	Up to 256 GB on a single blade/up to 2.56 TB per chassis	Up to 256 GB on a single blade/more than 12 TB per chassis
Mass storage		
Internal disk	Sun Blade Storage Module M2	N/A
External disk and tape	oracle.com/storage	oracle.com/storage
Network	Each server module has a direct connection to two PCIe Express Modules for discrete I/O connectivity and two Network Express Modules for aggregate I/O connectivity	Each server module has a direct connection to two PCIe Express Modules for discrete I/O connectivity and two Network Express Modules for aggregate I/O connectivity
Power/cooling		
Power	Power (n+n) high-efficiency, hot-swappable, load-sharing, load-balancing power supplies	Power (n+n) high-efficiency, hot-swappable, load-sharing, load-balancing power supplies
Operating temperature	41° F to 90° F (5° C to 32° C)	41°F to 90°F (5°C to 32°C)
Nonoperating temperature	-40°F to 149°F (-40°C to 65°C)	-40°F to 149°F (-40°C to 65°C)
Rack units	10U	Unibody rack design, four shelves in 42U space
Physical specifications		
Height	17.25 in. (438.15 mm)	81.61 in. (2,073 mm)
Width	17.50 in. (444.50 mm)	23.88 in. (606.5 mm)
Depth	27.25 in. (692.15 mm)	40.34 in. (1,024.58 mm)
Weight	350 lb. (159 kg) fully configured	2,300 lb. (1,043 kg) fully configured
Operating system	Function of the Server Modules	Function of the Server Modules
Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty

*Sun's Blade Modular Systems are offered with a range of high performance, low latency networking products including Network Express Modules, 10GbE and InfiniBand Switches and ExpressModules.
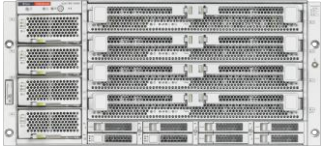
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SPARC SERVER MODULES

Name	SPARC T3-1B Server	Sun Blade T6320 Server Module	Sun Blade T6340 Server Module
Processor/ CPUs	One eight-core 64 thread, or one sixteen-core 128 thread 1.6GHz SPARC T3 processor	UltraSPARC T2 (1.2 GHz, 1.4 GHz, or 1.6 GHz)/ up to 1 CPU, up to 8 cores, security cypher per core, max. 64 threads	UltraSPARC T2 Plus (1.2 GHz or 1.4 GHz)/up to 2 CPUs, up to 16 cores, security cypher per core, max. 128 threads
Memory	Up to 128 GB	Up to 128 GB	Up to 256 GB
Mass storage			
Internal disk	Eight SAS2.0 interfaces using LSI SAS2008 Controller	• Eight 3 Gb/sec SAS/SATA interfaces using the LSI SAS1068E controller • Four SAS interfaces to each of the small form factor (SFF) SAS/SATA drive bays with RAID 0,1 support • Four SAS interfaces to the midplane • Support drive with 32GB Solid State Disks, 146GB 10,000 rpm SAS, 300GB 10,000 rpm SAS, 500GB 7,200 rpm SATA	• Six 3 Gb/sec SAS/SATA interfaces using the LSI SAS1068E Controller • One SAS interface to each of the small form factor (SFF) SAS/SATA drive bays with RAID 0, 1 support • Four SAS interfaces to the midplane • Support drive with 32GB Solid State Disks, 146GB 10,000 rpm SAS, 300GB 10,000 rpm SAS, 500GB 7,200 rpm SATA
External disk and tape	• Sun Blade Storage Module M2 • oracle.com/storage	• Sun Blade Storage Module M2 • oracle.com/storage	• Sun Blade Storage Module M2 • oracle.com/storage
Network	Two 10/100/1000 Base-T Ethernet ports using the Intel 82571ED GbE transceiver	• Two 10/100/1,000Base-T Ethernet ports using the Intel 82571EB GbE transceiver • One dedicated 10/100Base-T Ethernet port for the management network • Two optional 10 GB XAUI Ethernet ports through the addition of a dual channel pass through fabric expansion modules	• Two 10/100/1,000Base-T Ethernet ports using the Intel 82571EB GbE transceiver • One dedicated 10/100Base-T Ethernet port for the management network • Two optional 10 GB Ethernet ports through the addition of a dual-channel 10 GbE fabric expansion module
Power/cooling			
Power	N/A; function of chassis	N/A; function of chassis	N/A; function of chassis
Operating temperature	Sea level to 3,000 ft. (900 m): 41°F to 95°F (5°C to 35°C)	41°F to 90°F (5°C to 32°C)	41°F to 90°F (5°C to 32°C)
Non-operating temperature	-40°F to 149°F (-40°C to 65°C)	-40°F to 149°F (-40°C to 65°C)	-40°F to 149°F (-40°C to 65°C)
Rack units	N/A	N/A	N/A
Physical specifications			
Height	1.75 in. (44.45 mm)	1.75 in. (44.45 mm)	1.75 in. (44.45 mm)
Width	12.88 in. (327.15 mm)	12.88 in. (327.15 mm)	12.88 in. (327.15 mm)
Depth	19.56 in. (496.82 mm)	19.56 in. (496.82 mm)	19.56 in. (496.82 mm)
Weight	Max 18 lb. (8.3 kg)	17.3 lb. (7.86 kg)	20 lb. (9.1 kg)
Operating system	Oracle Solaris 10 9/10 Support for Solaris 10 10/09 (U8) + MU9 (Maintenance Update 9)	Oracle Solaris	Oracle Solaris
Warranty/ service	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty

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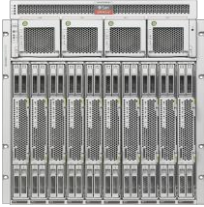| X86 BLADE SERVER MODULES			
Name	**Sun Blade X6270 M2 Server Module**	**Sun Blade X6275 Server Module**	**Sun Blade Storage Module M2**
Processor/CPUs	Intel Xeon (up to 3.33 GHz)/up to two CPUs, up to 12 cores	Intel Xeon (2.93 GHz)/up to 4 CPUs per blade with 2 per node, up to 16 cores per blade with 8 per node. . Each blade holds two physically-separate servers (compute nodes) with 2 CPUs per server	N/A Each module provides up to 2.4 TB of storage, up to 21.6 TB of storage per Sun Blade 6000 chassis
Memory	Up to 144 GB	Up to 192 GB	N/A
Internal disk	• Four SAS interfaces to the midplane, two to each NEM • Four hot-swappable SFF 2.5" drive bays • One USB 2.0 Media Port • Flash Solid State Disks	One 3 Gb/sec SATA interface to a Sun Flash Module (per compute node)	• Up to eight small form factor 2.5'' hard disk drives per storage module with SAS-2 interface
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage
Network	• Two 10/100/1,000Base-T Ethernet ports • One dedicated 10/100Base-T Ethernet port for the management network	• One 4x QDR IB port to the NEM slot (per compute node) — Sun Blade X6275 IB Model • One 10/100/1,000Base-T Ethernet port (per compute node) using the Intel 82567 GbE Controller • One (shared) 10/100Base-T Ethernet port for the management network • One (x8) PCIe 2.0 link (per compute node) to a PCIe Express Module slot	N/A
Power	N/A; function of chassis	N/A; function of chassis	N/A; function of chassis
Operating temperature	41°F to 90°F (5°C to 32°C)	41°F to 90°F (5°C to 32°C)	5° to 45° C
Nonoperating temperature	-40°F to 149°F (-40°C to 65°C)	-40°F to 149°F (-40°C to 65°C)	-40°F to 149°F (-40°C to 65°C)
Rack units	N/A	N/A	N/A
Height	12.87 in. (327 mm)	12.87 in. (327 mm)	1.7 in. (44 mm)
Width	1.7 in. (44 mm)	1.7 in. (44 mm)	12.87 in. (327 mm)
Depth	20.16 in. (512 mm)	20.16 in. (512 mm)	20.16 in. (512 mm)
Weight	17.4 lb. (7.9 kg)	20.61 lb. (9.4 kg) max.	Empty: 14.5 lb. (6.59 kg) Loaded: 16.3 lb. (7.41 kg)
Operating system	Oracle Solaris, Oracle Linux, Oracle VM, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware, Microsoft Windows Server	Oracle Solaris, Oracle Linux, Oracle VM, Red Hat Enterprise Linux, SUSE Enterprise Linux, VMware, Microsoft Windows Server	Oracle Solaris, Oracle Linux, Red Hat Enterprise Linux, SUSE Enterprise Linux, VMware, Microsoft Windows Server
Warranty	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty

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	x86 ENTRY LEVEL	**x86 ENTERPRISE LEVEL**	
Name	**Sun Fire X2270 M2 Server**	**Sun Fire X4170 M2 Server**	**Sun Fire X4270 M2 Server**
Processor/CPUs	One or two Intel Xeon Processors 5600 Series	One or two Intel Xeon Processors 5600 Series	One or two Intel Xeon Processors 5600 Series
Memory	12 DDR3 DIMM slots (6 DIMM slots per CPU socket); supports from 4 GB (1 x 4 GB) to 96 GB (12 x 8 GB) of memory	18 DDR3 DIMM slots (9 DIMM slots per CPU socket); supports from 4 GB (1 x 4 GB) to 144 GB (18 x 8 GB) of memory	18 DDR3 DIMM slots (9 DIMM slots per CPU socket); supports from 4 GB (1 x 4 GB) to 144 GB (18 x 8 GB) of memory
Mass storage			
Internal disk	• Up to four hot-swappable 3.5 in. SATA disk drives • Up to four hot-swappable 3.5 in. SSDs,	• Up to eight 2.5 in. SAS -2 HDDs • Up to eight 2.5 in. SATA-2 SSDs,	• Up to twelve 3.5 in. SAS-2/SATA-2 HDDs or SSDs • Up to twenty-four 2.5 in. SAS-2/SATA-2 HDDs or SSDs
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage
Graphics	VGA 8MB – 1600x1200 @ 60Hz	VGA 2D graphics controller embedded	VGA 2D graphics controller embedded
Network	One 10/100/1,000Base-T Ethernet ports, one serial RJ-45 port, one PCIe 2.0 slot	Four 10/100/1,000Base-T Ethernet ports, one serial RJ-45 port, three PCIe 2.0 slot	Four 10/100/1,000Base-T Ethernet ports, one serial RJ-45 port, six PCIe 2.0 slot
Power/cooling			
Power	Single nonredundant power supply: 100–240 V AC	Dual redundant, hot-swappable power supply: 100 V AC	Dual redundant, hot-swappable power supply: 100 V AC
Operating temperature	41°F to 95°F (5°C to 35°C)	41°F to 95°F (5°C to 35°C), 10% to 90% relative humidity, noncondensing	41°F to 95°F (5°C to 35°C), 10% to 90% relative humidity, noncondensing
Nonoperating temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C), up to 93% relative humidity, noncondensing	-40°F to 158°F (-40°C to 70°C), up to 93% relative humidity, noncondensing
Rack units	1U	1U	2U
Physical specifications			
Height	1.71 in. (43.43 mm)	1.71 in. (43.43 mm)	3.43 in. (87.12 mm)
Width	17.2 in. (436 mm)	16.75 in. (425.45 mm)	16.75 in. (425.45 mm)
Depth	25.6 in. (650 mm)	30.0 in. (685.8 mm)	30.0 in. (762 mm)
Weight	Max Weight: 30.61 lb. (13.9 kg)	Max Weight: 36 lb. (16.36 kg)	Max Weight: 65 lb. (29.54 kg)
Operating system	Oracle Solaris, Oracle Linux, Oracle VM, Red Hat Enterprise Linux, SUSE Enterprise Linux, VMware, Microsoft Windows Operating System	Oracle Solaris, Oracle Linux, Oracle VM, Red Hat Enterprise Linux, SUSE Enterprise Linux, VMware, Microsoft Windows Operating System	Oracle Solaris, Oracle Linux, Oracle VM, Red Hat Enterprise Linux, SUSE Enterprise Linux, VMware, Microsoft Windows Operating System
Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty

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	X86 ENTERPRISE LEVEL	
Name	**Sun Fire X4470 Server**	**Sun Fire X4540 Server**
Processor/CPUs	Two or four Intel Xeon Processors 7500 Series	Two Six-Core AMD Opteron processors
Memory	64 DDR3 DIMM slots (16 DIMM slots per CPU socket); supports from 16 GB (8 x 2 GB) to 512 GB (64 x 8 GB) of memory	16 DDR2 DIMM slots (8 DIMM slots per CPU socket); support from 32 GB (16 x 2 GB) to 64 GB (16 x 4 GB) of memory
Internal disk	• Up to six 2.5 in. SAS-2 HDDs • Up to six 2.5 in. SATA-2 SSDs	Up to forty-eight 3.5 in. SATA II disk drives, 250 GB, 500 GB, 1,000 GB 7,200 rpm
External disk and tape	Oracle.com/storage	Oracle.com/storage
Graphics	VGA 2D graphics controller embedded	N/A
Network	Four integrated 10/100/1,000Base-T Ethernet ports, one serial RJ-45 port, ten PCIe 2.0 slot	Four 10/100/1,000Base-T Ethernet ports, one RJ-45 connector, three PCIe slots
Power	Dual-redundant, hot-swappable power supplies; 100-240 V AC	Dual redundant, hot-swappable power supply: 200–220 V AC at 10 A, 100–110 V with three PSUs
Operating temperature	41°F to 95°F (5°C to 35°C)	37°F to 90°F (5°C to 32°C)
Nonoperating temperature	-40°F to 154°F (-40°C to 68°C)	-40°F to 149°F (-40°C to 65°C
Rack units	3U	4U
Height	5.1 in (129.85 mm)	6.75 in. (175 mm)
Width	17.2 in. (436.5 mm)	17 in. (445 mm)
Depth	28.8 in. (732 mm)	29 in. (736 mm)
Weight	Max Weight: 85 lb. (38.5 kg)	Max Weight: 170 lb. (88 kg)
Operating system	Oracle Solaris, Oracle Linux, Oracle VM, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware, Microsoft Windows Operating System	Oracle Solaris, Oracle Linux, Red Hat Enterprise Linux, Novell SUSE Enterprise Linux, Microsoft Windows Operating System
Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty

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X86 ENTERPRISE LEVEL		
Name	**Sun Fire X4640 Server**	**Sun Fire X4800 Server**
Processor/CPUs	Four or eight Six-Core AMD Opteron processors	Two or Four CMODS. Each CMOD contains two Intel Xeon Processors 7500 Series
Memory	64 DDR2 DIMM slots (8 DIMM slots per CPU socket); supports from 4 GB (2 x (2 x 1 GB)) to 512 GB (8 x (8 x 8 GB)) of memory	128 DDR3 DIMM slots (32 DIMM slots per CMOD socket); supports from 128 GB (64 x 2 GB) to 1 TB (128 x 8 GB) of memory
Internal disk	• Up to four 2.5 in. SAS HDDs, 146 GB, 300 GB 10,000 rpm, 73 GB 15,000 rpm	• Up to eight 2.5 in. SAS-2 HDDs,
External disk and tape	oracle.com/storage	oracle.com/storage
Graphics	Standard DVD+/-ROM in every server	VGA 2D graphics controller embedded
Network	Four 10/100/1,000Base-T Ethernet ports, RJ-45 connectors, with support for teaming and failover	Two hot-swappable Network Express Modules each provides: • Four 10GbE network ports via SFP+ connectors • Four 1GbE network ports via RJ-45 connector • Two x4 mini SAS-2 ports
Power	2+2 redundant, hot-swappable power supplies: 4x 100–240 V AC	2+2 redundant, hot-swappable power supplies: 200-–240 V AC
Operating temperature	41°F to 90°F (5°C to 32°C)	4°F to 95°F (5°C to 35°C)
Nonoperating temperature	-4°F to 140°F (-20°C to 60°C)	-40°F to 158°F (-40°C to 70°C)
Rack units	4U	5U
Height	6.9 in. (176 mm)	8.61 in. (218.75 mm)
Width	17.5 in. (445 mm)	17.5 in. (445 mm)
Depth	24.75 in. (629 mm)	27.56 in. (700 mm)
Weight	Max Weight: 88 lb. (40 kg)	Max Weight: 180 lb. (81.65 kg)
Operating system	Oracle Solaris, Oracle Linux, Oracle VM, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware, Microsoft Windows Operating System	Oracle Solaris, Oracle Linux, Oracle VM, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, Microsoft Windows Operating System
Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty

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	NETRA CARRIER-GRADE ULTRASPARC RACKMOUNT		
Name	**Sun Netra T2000 Server**	**Sun Netra T5220 Server**	**Sun Netra T5440 Server**
Processor/CPUs	UltraSPARC T1 (1.0 or 1.2 GHz)/ 1 CPU, up to 8 cores	UltraSPARC T2 (1.2 GHz)/1 CPU, up to 8 cores	UltraSPARC T2 Plus (1.2 and 1.4 GHz)/2 CPUs, up to 16 cores
Memory	Up to 64 GB	Up to 64 GB	Up to 256 GB
Mass storage			
Internal disk	Up to four SAS disks with no DVD-R/W, or up to two SAS disks with DVD-R/W	Up to four SAS disks with no DVD-R/W, or up to two SAS disks with DVD-R/W	Up to twelve 2.5 in. SAS HDDs
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage
Optical drive	One DVD+/-RW drive	One DVD+/-RW drive	One DVD+/-RW drive
Network	Four 10/100/1,000Base-T Ethernet ports	Four 10/100/1,000 Mb/sec Ethernet ports, up to 2x optional 10 GbE XAUI connections	Four 10/100/1,000 Mb/sec Ethernet ports, up to 2x optional 10 GbE XAUI connections
PCI slots	3 PCI-X (FH/FL and 1x HL) and 1 PCIe (low profile)	3 PCIe (1x FH/FL) and 2 PCI-X (FH, 1x FL, 1x HL)	2 PCI-X (FH/FL) and 8 PCIe (2x FH/FL) slots
Power/cooling			
Power	DC: -48 V DC or -60 V AC: 100–240 V AC, 50–60 Hz	DC: -48 V DC or -60 V AC: 100–240 V AC, 50–60 Hz	DC: -48 V DC or -60 V AC: 100–240 V AC, 50–60 Hz
Operating temperature	41°F to 104°F (5°C to 40°C)	41°F to 104°F (5°C to 40°C)	41°F to 104°F (5°C to 40°C)
Nonoperating temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Rack units	2U	2U	4U
Physical specifications			
Height	3.5 in. (89 mm)	3.43 in. (87.1 mm)	6.86 in. (174.2 mm)
Width	16.7 in. (424 mm)	17.52 in. (445 mm)	17.52 in. (445 mm)
Depth	20 in. (508 mm)	20.71 in. (526 mm)	20.87 in. (530 mm)
Weight	35 lb. (16 kg)	38.5 lb. (17.5 kg)	72.6 lb. (33 kg)
Operating system	Oracle Solaris	Oracle Solaris	Oracle Solaris
Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty

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	NETRA CARRIER-GRADE X86 RACKMOUNT		
Name	**Sun Netra X4200 M2 Server**	**Sun Netra X4250 Server**	**Sun Netra X4270 Server**
Processor/CPUs	AMD Opteron (2.2 GHz dual-core or 1.8 GHz quad-core)/up to 2 CPUs, up to 8 cores	Intel Xeon (2.3 GHz)/up to 2 CPUs, up to 8 cores	Intel Xeon (2.13 GHz)/up to 2 CPUs, up to 8 cores
Memory	Up to 32 GB	Up to 64 GB	Up to 144 GB
Mass storage			
Internal disk	Up to four SAS disks with no DVD-R/W, or up to two SAS disks with DVD-R/W	Up to four SAS disks with no DVD-R/W, or up to two SAS disks with DVD-R/W	Up to four SAS disks with no DVD-R/W, or up to two SAS disks with DVD-R/W
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage
Optical drive	One DVD+/-RW drive	One DVD+/-RW drive	One DVD+/-RW drive
Network	Four 10/100/1,000 Mb/sec Ethernet ports	Four 10/100/1,000 Mb/sec Ethernet ports	Four 10/100/1000 Mbps Ethernet
PCI slots	3 PCI-X (FH/FL and 1x HL) and 1 PCIe (low profile)	3 PCIe (1x FH/FL) and 2 PCI-X (FH, 1x FL, 1x HL)	• Two PCIe slots for full-height, full- length cards • Four PCIe slots for MD2 low-profile cards
Power/cooling			
Power	DC: -48 V DC or -60 V DC AC: 100–240 V AC, 50–60 Hz	DC: -48 V DC or -60 V AC: 100–240 V AC, 50–60 Hz	DC: -48 V DC or -60 V AC: 100–240 V AC, 50–60 Hz
Operating temperature	41°F to 104°F (5°C to 40°C), short term 23°F to 131°F (-5°C to 55°C)	41°F to 104°F (5°C to 40°C), short term 23°F to 131°F (-5°C to 55°C)	41°F to 104°F (5°C to 40°C), short term 23°F to 131°F (-5°C to 55°C)
Nonoperating temperature	-40°F to 158°F (-40°C to 70°C)	40°F to 158°F (-40°C to 70°C)	40°F to 158°F (-40°C to 70°C)
Rack units	2U	2U	2U
Physical specifications			
Height	3.5 in. (89 mm)	3.43 in. (87.1 mm)	3.43 in. (87.1 mm)
Width	17.4 in. (442 mm)	17.52 in. (445 mm)	17.52 in. (445 mm)
Depth	20 in. (508 mm)	20.71 in. (526 mm)	20.71 in. (526 mm)
Weight	35 lb. (16 kg)	38.5 lb. (17.5 kg)	38.5 lb. (17.5 kg)
Operating system	Oracle Solaris, Red Hat Enterprise Linux, SUSE Enterprise Linux, Microsoft Windows Server	Oracle Solaris, Red Hat Enterprise Linux, SUSE Enterprise Linux, VMware, Microsoft Windows Server	Oracle Solaris, Oracle Linux, Oracle VM, Red Hat Enterprise Linux, SUSE Enterprise Linux, VMware, Microsoft Windows
Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty

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	NETRA CARRIER-GRADE ENTERPRISE BLADE SERVERS		
Name	**Sun Netra 6000 Chassis**	**Sun Netra T6340 Server Module**	**Sun Netra X6270 M2 Server Module**
Processor/CPUs	UltraSPARC, Intel Xeon	UltraSPARC T2 Plus (1.4 GHz)/up to 2 CPUs, up to 16 cores, max. 128 threads	Two Intel Xeon 5600 series Processors (L5638 6-core 60 watt, 2.0 GHz)
Memory	Up to 256 GB on a single blade/up to 2.56 TB per chassis	Up to 256 GB	Up to 144 GB
Mass storage			
Internal disk	N/A	• Four SAS interfaces to the midplane • Support drive with 300 GB 10,000 rpm SAS	• Four SAS-2 interfaces to the midplane, two to each Network Express Module slot • Four hot swappable Small Form Factor (SFF) 2.5" drive bays
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage
Network	Each server module has a direct connection to two PCIe Express Modules for discrete I/O connectivity and two Network Express Modules for aggregate I/O connectivity	• Two 10/100/1,000Base-T Ethernet ports using the Intel 82571EB GbE transceiver • One dedicated 10/100Base-T Ethernet port for the management network	• Two 10/100/1,000Base-T Ethernet ports • One dedicated 10/100Base-T Ethernet port for the management network
PCI slots		Up to 20 ExpressModules per chassis	Up to 20 ExpressModules per chassis
Power/cooling			
Power	Power (n+n) high-efficiency, hot-swappable, load-sharing, load-balancing power supplies	N/A; function of chassis	N/A; function of chassis
Operating temperature	41°F to 113°F (5°C to 45°C)	41°F to 90°F (5°C to 32°C)	41°F to 90°F (5°C to 32°C)
Nonoperating temperature	-40°F to 149°F (-40°C to 65°C)	-40°F to 149°F (-40°C to 65°C)	-40°F to 149°F (-40°C to 65°C)
Rack units	10U (AC) or 11RU (DC)	N/A	N/A
Physical specifications			
Height	AC: 17.25 in. (43.8 cm) / DC: 19 in. (48.2 cm)	1.75 in. (44.45 mm)	12.87 in. (327 mm)
Width	AC/DC : 17.50 in. (444.50 mm)	12.88 in. (327.15 mm)	1.7 in. (44 mm)
Depth	AC/DC: 27.25 in. (692.15 mm)	19.56 in. (496.82 mm)	20.16 in. (512 mm)
Weight	AC: 360 lb (163 kg) / DC: 368 lb (167 kg)	20 lb. (9.1 kg)	17.4 lb. (7.9 kg)
Operating system	Function of the Server Modules	Oracle Solaris	Oracle Solaris, Oracle Linux, Oracle VM, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware, Microsoft Windows Server
Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty

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NETRA CARRIER-GRADE ATCA BLADES		
Name	**Sun Netra CT900 ATCA Blade Server**	**Sun Netra CP3060 ATCA Blade Server**	**Sun Netra CP3260 ATCA Blade Server**
Processor/CPUs	UltraSPARC, AMD Opteron, Intel Xeon	UltraSPARC T1 (1.0 GHz)/up to 1 CPU, up to 8 cores	UltraSPARC T2 Plus (1.2 GHz)/up to 1 CPU, up to 8 cores
Memory	N/A; memory resides on blades	Up to 16 GB	Up to 32 GB
Mass storage			
Internal disk	HDD resides on the blades	AMC.3 80 GB HDD	Dual SAS on rear RTM with support for two hot-swappable 300 GB HDDs
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage
Network	• Dual 10/100/• 1,000Base-T Ethernet ports; support for 16 G or 10 G switch fabric • Support for 1 G or 10 G switch fabric	• Dual 10/100/1,000Base-T Ethernet base fabric interfaces • Dual 1,000Base-T Ethernet extended fabric interfaces	Eight Ethernet channels: two 1 G channels for base fabric, two 1 G or 10 G for extended fabric, three 1 G for Zone 3 (ARTM implementation-specific), one for front panel (1 G)
Power/cooling			
Power	DC: -48 V DC or -60 V	Power is a function of the Netra CT900	Power is a function of the Netra CT900
Operating temperature	41°F to 104°F (5°C to 40°C); short term 23°F to 131°F (-5°C to 55°C)	41°F to 104°F (5°C to 40°C); short term 23°F to 131°F (-5°C to 55°C)	41°F to 104°F (5°C to 40°C); short term 23°F to 131°F (-5°C to 55°C)
Nonoperating temperature	40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Rack units	12U (14-slot)	N/A (ATCA Blade)	N/A (ATCA Blade)
Physical specifications			
Height	21 in. (533 mm)	12.7 in. (322.25 mm)	12.7 in. (322.25 mm)
Width	17.7 in. (444 mm)	11 in. (280 mm)	11 in. (280 mm)
Depth	19 in. (482 mm)	1.18 in. (30 mm)	1.18 in. (30 mm)
Weight	150 lb. (69 kg)	15 lb. (7 kg)	15 lb. (7 kg)
Operating system	Function of the Blades	Oracle Solaris	Oracle Solaris
Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty

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	NETRA CARRIER-GRADE ATCA BLADES			
Name	**Sun Netra CP3020 ATCA Blade Server**	**Sun Netra CP3220 ATCA Blade Server**	**Sun Netra CP3250 ATCA Blade Server**	**Sun Netra CP3270 ATCA Blade Server**
Processor/CPUs	AMD Opteron (1.8 GHz)/up to 1 CPU, up to 2 cores	AMD Opteron (1.8 GHz)/up to 1 CPU, up to 4 cores	Intel Xeon (2.13 GHz)/up to 2 CPU, up to 8 cores	Intel Xeon (1.73GHz)/2 CPUs, four cores, 16 threads
Memory	Up to 8 GB	Up to 32 GB	Up to 24 GB	Up to 32 GB
Mass storage				
Internal disk	Two 2.5 in. SAS drives	Dual SAS on rear RTM with support for two hot-swappable 300 GB HDDs as well as SAS HDD support through dual AMC sites	Dual SAS on rear RTM with support for two hot-swappable 300-GB HDDs as well as SAS HDD support through AMC site	Dual SAS on rear RTM with support for two hot-swappable 300-GB HDDs as well as SAS HDD support through AMC site
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage	oracle.com/storage
Network	Two 10/100/1,000Base-T management ports, two 1,000Base-T base fabric, two 1000-series extended fabric; one RS-232C serial port, parallel N/A	Two GbE channels: two channels for base fabric, two 10 GbE channels for extended fabric, two RS-232 serial ports routed to the front and rear, 10 Gb/sec XAUI Ethernet (eight-lane PCIe)	Two GbE channels for base fabric, two 1 GbE and 10 GbE channels for extended fabric, two RS-232 serial ports routed to the front and rear	Two GbE channels for base fabric; two 10 GbE channels for extended fabric; two RS-232 serial ports routed to the front and rear; two USB ports
Power/cooling				
Power	Function of Netra CT900	Function of Netra CT900	Function of Netra CT900	Function of Netra CT900
Operating temperature	41°F to 104°F (5°C to 40°C)	41°F to 104°F (5°C to 40°C)	41°F to 104°F (5°C to 40°C)	41°F to 104°F (5°C to 40°C)
Nonoperating temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Rack units	N/A (ATCA Blade)	N/A (ATCA Blade)	N/A (ATCA Blade)	N/A (ATCA Blade)
Physical specifications				
Height	12.7 in. (322.25 mm)	12.7 in. (322.25 mm)	12.7 in. (322.25 mm)	12.7 in. (322.25 mm)
Width	11 in. (280 mm)	11 in. (280 mm)	11 in. (280 mm)	11 in. (280 mm)
Depth	1.18 in. (30 mm)	1.18 in. (30 mm)	1.18 in. (30 mm)	1.18 in. (30 mm)
Weight	15 lb. (7 kg)	15 lb. (7 kg)	15 lb. (7 kg)	15 lb. (7 kg)
Operating system	Oracle Solaris, Enterprise Linux	Oracle Solaris, Microsoft Windows Server, Enterprise Linux	Oracle Solaris, Microsoft Windows Server, Enterprise Linux	Oracle Solaris, Oracle Linux, Oracle VM, SUSE Enterprise Linux, VMware, Microsoft Windows Server
Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty

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Sun Unified Storage Solutions

	SUN STORAGE 5100 FLASH ARRAY		
Name	**20 Flash Modules**	**40 Flash Modules**	**80 Flash Modules**
Capacity			
Capacity	480 GB	960 GB	1,920 GB
Domains	4	4	4
I/O performance			
Random read IOPS (4,000)	397,000 IOPS	795,000 IOPS	1.6 million IOPS
Random write IOPS (4,000)	304,000 IOPS	610,000 IOPS	1.2 million IOPS
Throughput			
Sequential read rate	3.2 GB/sec	6.4 GB/sec	12.8 GB/sec
Sequential write rate	2.4 GB/sec	4.8 GB/sec	9.7 GB/sec
Latency			
Read latency	0.41 ms	0.41 ms	0.41 ms
Write latency	0.28 ms	0.28 ms	0.28 ms
Interfaces			
Ports	16 x 4-wide SAS-1 (64 channels)	16 x 4-wide SAS-1 (64 channels)	16 x 4-wide SAS-1 (64 channels)
Zoning	Yes	Yes	Yes
Power			
Input	100–120 V AC or 200–240 V AC	100–120 V AC or 200–240 V AC	100–120 V AC or 200–240 V AC
Idle	129 W	157 W	213 W
Active	228 W	281 W	386 W
Power backup	4 energy storage modules (ESMs)	4 energy storage modules (ESMs)	4 energy storage modules (ESMs)
Reliability			
MTBF	3 million hours	3 million hours	3 million hours
Endurance (50% read/50% write)	Approximately 6 years	Approximately 6 years	Approximately 6 years
Redundant power and fans	Yes	Yes	Yes
Physical specifications			
Height	1.746 in. (44 mm)—1U	1.746 in. (44 mm)—1U	1.746 in. (44 mm)—1U
Width	16.750 in. (425 mm)	16.750 in. (425 mm)	16.750 in. (425 mm)
Depth	28.125 in. (714 mm)	28.125 in. (714 mm)	28.125 in. (714 mm)
Weight	35 lb. (15.9 kg)	35 lb. (15.9 kg)	35 lb. (15.9 kg)

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SUN STORAGE 5100 FLASH ARRAY

Name	20 Flash Modules		40 Flash Modules		80 Flash Modules	
Environmental	Operating	Nonoperating	Operating	Nonoperating	Operating	Nonoperating
Temperature	5°C to 35°C	-40°C to 65°C	5°C to 35°C	-40°C to 65°C	5°C to 35°C	–40°C to 65°C
Relative humidity	0–90%, 27°C max.	10–93%, 35°C max.	0–90%, 27°C max.	10–93%, 35°C max.	0–90%, 27°C max.	10–93%, 35°C max.
Altitude	3,000 m	12,000 m	3,000 m	12,000 m	3,000 m	12,000 m
Acoustic	55.4 Db		55.4 Db		55.4 Db	
Other						
Backup	4 energy storage modules		4 energy storage modules		4 energy storage modules	
Weight	35 lb (15.9 kg)		35 lb (15.9 kg)		35 lb (15.9 kg)	
Management	StorageTek Common Array Manager software		StorageTek Common Array Manager software		StorageTek Common Array Manager software	
Warranty/service	StorageTek Common Array Manager software		StorageTek Common Array Manager software		StorageTek Common Array Manager software	

SUN FLASH ACCELERATOR F20

Name	Sun Flash Accelerator F20
Storage type	Low-profile PCIe card
Storage capacity	96 GB
Read/write performance	100,000/84,000 IOPS
Domains	4
Flash type (NAND)	Single-level cell
Internal disk controller	• Interface: SAS-1 • Ports: 2 x 4 wide • Disks supported: 8

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	UNIFIED STORAGE - SUN STORAGE 7000 SYSTEMS		
Name	**Sun Storage 7110 System**	**Sun Storage 7310 Unified System**	**Sun Storage 7410 System**
Processor	2.2 GHz six-Core CPU	Up to two 2.2 GHz six-core AMD CPUs per controller	Up to four 2.2 GHz Six-core CPUs per controller
Main Memory	Up to 8 GB RAM	Up to 64 GB per node	Up to to 256 GB per node
Read Optimized SSD (cache)	N/A	• Up to 600 GB (6 per node)	• Up to 600 GB (6 per node)
Write Optimized SSD (cache)	N/A	• Up to 16 SSDs for cluster configuration	• Up to 16 SSDs for cluster configuration
Mass Storage			
Max. storage	Up to 4.2 TB	192 TB	576 TB
Network			
Integrated network	Four 10/100/1,000Base-T Ethernet ports	Four 10/100/1,000Base-T Ethernet ports	Four 10/100/1,000Base-T Ethernet ports
Optional network connectivity	Dual GigE UTP; Dual GigE MMF; Quad Gigabit Ethernet UTP; Dual 10 GigE Fiber XFP (requires fiber transceiver), QDR Infiniband HCA, 8Gb FC HBA	Dual GigE UTP; Dual GigE MMF; Quad Gigabit Ethernet UTP; Dual 10 GigE Fiber XFP (requires fiber transceiver), QDR Infiniband HCA, 8Gb FC HBA	Dual GigE UTP; Dual GigE MMF; Quad Gigabit Ethernet UTP; Dual 10 GigE Fiber XFP (requires fiber transceiver), QDR Infiniband HCA, 8Gb FC HBA
Optional tape backup HBA	Dual-channel 4 Gb FC HBA; 8 Gb FC HBA	Dual-channel 4 Gb FC HBA; 8 Gb FC HBA	Dual-channel 4 Gb FC HBA; 8 Gb FC HBA
Power/cooling			
Power	100–120 V/200–240 V (50/60 Hz)	100–120 V/200–240 V AC (50/60 Hz)	90–264 V AC (47 Hz to 63 Hz)
Operating temperature (single, nonrack system)	5°C to 35°C (41°F to 95°F), 10% to 90% relative humidity, noncondensing	5°C to 35°C (41°F to 95°F), 10% to 90% relative humidity, noncondensing	5°C to 35°C (41°F to 95°F), 10% to 90% relative humidity, noncondensing
Nonoperating temperature	-40°F to 149°F (-40°C to 65°C), up to 93% relative humidity, noncondensing	-40°F to 149°F (-40°C to 70°C), up to 93% relative humidity, noncondensing	-40°F to 158°F (-40°C to 70°C), up to 93% relative humidity, noncondensing
Rack Units	2U	1U per node, 4U per storage array	2U per node, 4U per storage array
Physical Specifications			
Height	3.49 in. (88 mm)	1.746 in. (44 mm)	3.46 in. (87.85 mm)
Width	16.75 in. (426 mm)	16.75 in. (426 mm)	16.75 in. (425.5 mm)
Depth	28.125 in. (714 mm)	28.125 in. (714 mm)	28 in. (711.2 mm)
Weight	56.77 lb. (25.75 kg)	40.90 lb. (18.55 kg)	63 lb. (28.6 kg)
Operating system	Oracle VM, VMware	Oracle VM, VMware	Oracle VM, VMware
Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty

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Unified Storage: Sun ZFS Storage Appliance

Name	Sun ZFS Storage 7120	Sun ZFS Storage 7320	Sun ZFS Storage 7420	Sun ZFS Storage 7720
Processor	4x 2.4 GHz Intel® Xeon® Processors cores	8x 2.4GHz Intel® Xeon® Processors cores per controller	Up to 32x 1.86 GHz or 2.0GHz Intel® Xeon® Processors cores per controller	32x 2.26 GHz Intel® Xeon® Processors cores per controller
Main Memory	24 GB	Up to 72 GB per node	Up to 512 GB per node	Options of 128 GB, 256 GB, and 512 GB per node
Read Optimized Flash	N	Up to 8 (4 TB total)	Up to 8 (4 TB total)	Up to 8 (4 TB total)
Write Optimized Flash	96 GB	Up to 16 SSDs for cluster configuration	Up to 96 SSDs	24 per rack
Mass storage				
Max. storage	120 TB	192 TB	1.15 PB	720 TB
Network				
Integrated network	Four 10/100/1000 Base-T Ethernet ports			
Optional network connectivity	Dual GigE UTP; Dual GigE MMF; Quad Gigabit Ethernet UTP; Dual 10 GigE, QDR Infiniband HCA, 8Gb FC HBA			
Optional tape backup HBA	Dual channel 4 Gb FC HBA; 8Gb FC HBA			
Power/cooling				
Power	1200 W (full controller)	760 W (full controller)	1485 W (full controller)	6000 W (full system)
Altitude (operating) (Single, non-rack system)	Up to 3,048 m, maximum ambient temperature is derated by 1°C per 300 m above 900 m	Up to 3,000 m, maximum ambient temperature is derated by 1°C per 300 m above 900 m	Up to 3,048 m, maximum ambient temperature is derated by 1°C per 300 m above 900 m	Altitude (operating) (single, standalone) Up to 3000m, temperature is derated by 1C per 300m of elevation above 900m
Nonoperating temperature/ humidity (single, non-rack system)	40°C to 70°C (-40°F to 158°F), up to 93% relative humidity, non-condensing	40°C to 70°C (-40°F to 149°F), up to 93% relative humidity, non-condensing	-40°C to 70°C (-40°F to 158°F), up to 93% relative humidity, non-condensing	-40 °C to 65 °C Non-operating Humidity (standalone) 93% relative humidity, 38C max. wet bulb (non condensing)
Rack Units	2U for controller, 4U per disk shelf	1U per node, 4U per disk shelf	3U per node, 4U per disk shelf	42U each
Physical Specifications				
Height	87.6mm (3.45 in.)	43.43 mm (1.71 in.)	129.85 mm (5.1 in)	79.5 inches (2,019 mm)
Width	436.5mm (17.19 in.)	425.45 mm (16.75 in.)	436.5 mm (17.2 in.)	23.5 inches (569.9 mm)
Depth	762.0mm (30.0 in.)	685.8 mm (30.0 in.)	732 mm (28.8 in.)	46 inches (1168.4 mm)
Weight	29.54 kg (65 lbs.)	16.36 kg (36 lb.)	38.5 kg (85 lbs) max	870 kg (1900 lbs)
File System	Oracle Solaris ZFS (128-bit addressability)	Oracle Solaris ZFS (128-bit addressability)	Oracle Solaris ZFS (128-bit addressability)	Oracle Solaris ZFS (128-bit addressability)
Warranty/Service				
Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty

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Workgroup and Enterprise Datacenter Disk Storage

SUN STORAGE 6000 ARRAYS		
Name Sun Storage 6180 Array	**Sun Storage 6580 Array**	**Sun Storage 6780 Array**
Controller card	Dual RAID controller	Dual RAID controller	Dual RAID controller

	Sun Storage 6180 Array	Sun Storage 6580 Array	Sun Storage 6780 Array
Controller card	Dual RAID controller	Dual RAID controller	Dual RAID controller
Cache size (with ECC protection)	4 GB per array	8, 16 or 32 GB per array	8, 16 or 32 GB per array
Host interfaces/link speeds	Four or eight 4 Gb/sec or 8 Gb/sec FC ports per controller tray	Eight 4 Gb/sec or 8 Gb/sec FC ports per controller tray	Eight 4 Gb/sec or 8 Gb/sec FC ports per controller tray (exp to 32)
Drive capacity	5 to 112 drives	5 to 256 drives	5 to 448 drives
Supported drives			
FC (15,000 rpm)	300 GB, 600 GB	300 GB, 600 GB	300 GB, 600 GB
SATA (7,200 rpm)	1 TB, 2 TB	1 TB, 2 TB	1 TB, 2TB
SSD	N/A	73 GB	73 GB
RAID levels	0, 1, 3, 5, 6 (p+q), 10	0, 1, 3, 5, 6 (p+q), 10	0, 1, 3, 5, 6 (p+q), 10
Power/cooling			
Power AC	115 V at +3 A/240 V at +2 A	515 W (+5 V at 19 A/+12 V at 35 A)	515 W (+5 V at 19 A/+12 V at 35 A)
Power DC	17 A max. operating (-42 to -60 V DC)	N/A	N/A
Heat output	460 W (1,571 BTU/hr.)	540 W (1,842 BTU/hr.)	540 W (1,842 BTU/hr.)
Rack units	3U controller tray, 3U expansion tray	3U controller tray, 3U expansion tray	3U controller tray, 3U expansion tray
Operating system	Oracle Solaris, Oracle Linux, Red Hat Enterprise Linux, Novell SUSE Enterprise Linux, VMware, Microsoft Windows Operating System	Oracle Solaris, Oracle Linux, Red Hat Enterprise Linux, Novell SUSE Enterprise Linux, VMware, Microsoft Windows Operating System	Oracle Solaris, Oracle Linux, Red Hat Enterprise Linux, Novell SUSE Enterprise Linux, VMware, Microsoft Windows Operating System
NEBS certified	Yes (AC and DC)	No	No
Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty

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Tape Storage

	TAPE LIBRARIES				
Name	**StorageTek SL8500 Modular Library System**	**StorageTek SL3000 Modular Library System**	**StorageTek SL500 Modular Library System**	**StorageTek SL48 Tape Library**	**StorageTek SL24 Tape Autoloader**
Max. throughput/hr., native; alternative tape drives provide varying throughput rates	Mid-Range LTO 5 (640 drive, 140 MB/sec): 322.6 TB/hr. Enterprise T10000B (640 drive, 120 MB/sec): 276.5 TB/hr.	Mid-Range LTO 5 (56 drive, 140 MB/sec): 28.2 TB/hr. Enterprise T10000B (56 drive, 120 MB/sec): 24.2 TB/hr.	LTO 5 (18 drives, 140 MB/sec): more than 9 TB/hr.	LTO 5 (140 MB/sec): 1 TB/hr.	LTO 5 (140 MB/sec): 504 GB/hr.
Max. capacity, native; alternative tape drives provide varying capacities	Mid-range LTO 5 (100,000 slots): 150 PB Enterprise T10000B (100,000 slots): 100 PB	Mid-range LTO 5 (100,000 slots): 8.9 PB Enterprise T10000B (5,925 slots): 5.9 PB	LTO 5 (575 slots): 862 TB	LTO 5 (48 slots): 72 TB	LTO 5 (24 slots): 36 TB
Max. number of cartridge slots	100,000 slots	5,925 slots	575 slots, LTO only; 494 slots mixed media	48 slots	24 slots
Number and type of tape drives	Up to 64 drives (min. configuration) or up to 640 drives (max. configuration) of any combination of supported drives, including T10000 B (FICON, FC); T9840D (FICON, FC); LTO 4/5 (FC)	Up to 56 drives of any combination of supported drives, including T10000 B (FICON, FC); T9840D (FICON, FC); LTO 4/5 (FC)	1 to 18 drives, including LTO 4/5 (SCSI/FC)	Up to two full-height or four half-height drives, including LTO 4/5 (SCSI, FC)	One full-height or two half-height drives, including LTO 4/5 (SCSI, FC, SAS)
Supported host platforms	Oracle Solaris, Microsoft Windows, UNIX, Linux, Z/OS	Oracle Solaris, Microsoft Windows, UNIX, Linux, Z/OS	Oracle Solaris, Microsoft Windows, UNIX	Oracle Solaris, Microsoft Windows, UNIX	Oracle Solaris, Microsoft Windows, UNIX
Any-cartridge Any-slot technology	Yes	Yes	Yes	No	No
Dimensions (H x W x D)	Min. configuration: 93.15 in. x 67.3 in. x 109.0 in. (236.6 cm x 170.81 cm x 276.9 cm)	Min. configuration: 77.5 in. x 36 in. x 48 in. (1.97 cm x 91.4 cm x 122.1 cm)	Min. configuration: 14.0 in. x 18.9 in. x 33.14 in. (35.6 cm x 48.0 cm x 81.1 cm)	Out-of-box: 3.4 in. x 17.5 in. x 30.65 in. (8.7 cm x 44.5 cm x 7.8 cm)1	Out-of-box: 3.4 in. x 17.5 in. x 30.65 in. (8.7 cm x 44.5 cm x 7.8 cm)
Weight	Min. configuration: 4,309 lb. (1,954 kg)	Min. configuration: 796 lb. (361.1 kg)	Min. configuration: 76.4 lb. (34.56 kg)	Out-of-box: 34.3 lb. (15.6 kg)	Out-of-box: 34.3 lb. (15.6 kg)

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	TAPE DRIVES		
Name	**StorageTek T10000B Tape Drive**	**StorageTek T9840D Tape Drive**	**StorageTek LTO Tape Drives**
Average file access time	62 sec	16.5 sec	LTO 4: 62 sec LTO 5: 52 sec
Data transfer rate, native	120 MB/sec	30 MB/sec	LTO 4: 120 MB/sec (80 MB/sec half-height) LTO 5: 140 MB/sec
Capacity, native (uncompressed)	1 TB	75 GB	LTO 4: 800 GB LTO 5: 1.5 TB
Interface	2 Gb FICON, 4 Gb FC (automation, rackmount)	2 Gb FC, FICON, ESCON (automation, rackmount)	Ultra 320 SCSI, SAS (half-height only), 8 Gb FC (automation only)
Dimensions—automation (H x W x D)	3.5 in. x 5.75 in. x 16.75 in. (8.89 cm x 14.61 cm x 42.55 cm)	3.25 in. x 15.0 in. (8.3 cm x 38.1 cm)	5.7 in. x 1.6 in. x 8.1 in. (14.47 cm x 4.1 cm x 20.82 cm)

	TAPE ENCRYPTION
Name	**StorageTek Crypto Key Management System 2.0**
Components	Consists of a cluster configuration (2-20) of Sun Fire rackmounted servers running Oracle Solaris 10 and each containing a Sun Crypto Accelerator 6000 card
Standards/drives supported	FIPS 140-2 security requirements; CCM-AES-256 encryption; up to 3,000 drives (T10000B, T9840D, or LTO 4/5) and 1,000,000 keys from a single KMS cluster

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	TAPE VIRTUALIZATION		
Name	**StorageTek Virtual Storage Manager (VSM) System - VSM 5e**	**StorageTek Virtual Storage Manager (VSM) System - VSM 5**	**StorageTek Virtual Library Extension - VLE**
Capacity	800 GB or 1.25 TB	1.25 TB, 2.5 TB, 5 TB, 7.5 TB, 11 TB, 14 TB, 28 TB, 45 TB, 68 TB, or 90 TB	220 TB, 440 TB, 660 TB, 880TB
Host connectivity	Mainframe	Mainframe	Mainframe
Storage connectivity	8 FICON or 16 ESCON, 4 Ethernet IP support	8 FICON or 16 ESCON, 4 Ethernet IP support	16 Ethernet IP (connection to VSM5)
Performance	15,000 rpm disk drives	15,000 rpm disk drives	7,200 RPM disk drives
Virtual tape libraries/ drives/carts	256 virtual tape drives	256 virtual tape drives	N/A
Cache	8 GB (physical) 32 GB (effective - 4:1 compression)	32 GB (physical) 128 GB (effective - 4:1 compression)	128 GB (physical) 512 GB (effective - 4:1 compression)
Nonvolatile storage	1,024 MB (effective – 4:1 compression)	1,024 MB (effective – 4:1 compression)	N/A
Min. software requirements	HSC 6.1/VTCS 6.1, z/OS 1.1+	HSC 6.1/VTCS 6.1, z/OS 1.1+	HSC 6.1/VTCS 6.1, z/OS 1.1+

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TAPE MEDIA		

Name	StorageTek T10000 Data Cartridge	StorageTek 9940 Data Cartridge	StorageTek 9840 Data Cartridge
Capacity, native (uncompressed)	120 GB (Sport), 500 GB (T10000A); 240 GB (Sport), TB (T10000B)	60 GB (T9940A), 200 GB (T9940B)	20 GB (T9840A/B), 40 GB (T9840C), 75 GB (T9840D)
Supported tape drives	T10000A, T10000B	T9940A, T9940B	T9840A, T9840B, T9840C, T9840D
Drive compatibility	Read/write	Read/write	Read/write
WORM or VolSafe secure media technology	Yes	Yes	Yes
Name	StorageTek LTO Ultrium 5 Data Cartridge	StorageTek LTO Ultrium 4 Data Cartridge	StorageTek LTO Ultrium 3 Data Cartridge
Capacity, native (uncompressed)	1.5 TB	800 GB	400 GB
Supported tape drives	LTO 5	LTO 4, LTO 5	LTO 3, LTO 4
Drive compatibility	Read/write	Read/write; LTO 5 at 800 GB, 120 MB/sec	Read/write; LTO 4 at 400 GB, 80 MB/sec
WORM or VolSafe secure media technology	Yes	Yes	Yes

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