

**Hardware and Software
Engineered to Work Together**

ORACLE'S FULL LINE OF INTEGRATED SERVER SYSTEMS

See Beyond the Limits

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

More than 30 years of systems expertise and innovative thinking have gone into creating Oracle servers. These systems are some of the most reliable, scalable, and energy-efficient systems in the industry. They are the core building blocks for mission-critical enterprise computing; enterprise application environments; and virtualization and cloud deployments. Oracle's complete portfolio of servers, storage, systems software, and networking products are engineered to work together to deliver [record-breaking performance](#), simplified management, and cost-saving efficiencies.

The Right Solutions for Enterprise Needs

The deployment of IT resources is vital to enterprises. They want to plan IT projects carefully so they can select the right servers, storage products, and infrastructure to make the

network as efficient as possible. An open and scalable design approach lets enterprises mix and match Oracle compute, storage, and network components so that all resources in the data center work as a powerful and integrated system, driving better efficiency across the IT infrastructure and supporting business needs from end to end.

Optimized Solutions

Oracle's optimized solutions are applications-to-disk solutions comprising Oracle's servers, storage, and networking components; Oracle Solaris; Oracle Linux; Oracle Database; Oracle Fusion Middleware; and Oracle applications. Oracle is the only company to provide the complete technology stack—engineering, tuning, and collaboration is done at every level.




Warranty Programs




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






How to Use This Guide

This guide features all of Oracle's servers, with each section listing a full line of products and their specifications. Read [Oracle's Full Line of Integrated Storage Systems](#) to see all of Oracle's storage products.




Oracle's Server Product Guide



SPARC ENTERPRISE ENTRY-LEVEL SERVERS			
			
Name	SPARC T4-1 Server	SPARC T3-1 Server	SPARC T4-2 Server
Processor/CPUs	Eight-core 2.85 GHz SPARC T4 processor; One processor per system; Max. 64 threads	Sixteen-core 1.65 GHz SPARC T3 processor; One processor per system; Max. 128 threads	Eight-core 2.85 GHz SPARC T4 processor; Two processors per system; Max. 128 threads
Memory	Up to 256 GB	Up to 128 GB	Up to 512 GB
Mass storage			
Internal disk	Up to eight 300 GB or 600 GB 2.5-in. SAS drives or 100 GB or 300 GB SSDs; Internal DVD: One slimline SATA DVD+/- RW	Up to eight or sixteen 300 GB or 600 GB 2.5-in. SAS drives, depending on selected backplane	Up to six 300 GB or 600 GB 2.5-in. SAS drives or 100 GB or 300 GB SSDs; Internal DVD: One slimline SATA DVD+/-RW
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage
Network			
Expansion bus and ports	<ul style="list-style-type: none"> Four 10/100/1000 Mb/sec Ethernet ports; Up to two optional 10 GbE (XAU1) connections and 6 PCIe module slots 	<ul style="list-style-type: none"> Four 10/100/1000 Mb/sec Ethernet ports; Up to two optional 10 GbE (XAU1) connections and 6 PCIe module slots 	<ul style="list-style-type: none"> Four 10/100/1000 Mb/sec Ethernet ports; Up to four optional 10 GbE (XAU1) connections and 10 PCIe module slots.
Power/cooling			
Power	Two hot-swappable AC 1200 w redundant (N+1) power supplies	Two hot-swappable AC 1200 w redundant (N+1) power supplies	Two hot-swappable AC 2,060 w redundant (N+1) power supplies
Operating temperature	<ul style="list-style-type: none"> Sea level to 900 m (2,953 ft.): 5°C to 35°C (41°F to 95°F); Above 900 m (2,953 ft.): Decrease the maximum allowable temperature by 1°C/300 m (1.6°F/1,000 ft.); IEC 60068-2-1 Test Ad and 60068-2-2 Test Bd 	Sea level to 3,000 ft. (900 m): 41°F to 95°F (5°C to 35°C)	5°C to 35°C (41°F to 95°F)
Nonoperating temperature	−40°C to 65°C (−40°F to 149°F); 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°C to 65°C (−40°F to 149°F)
Rack units	2U	2U	3U
Physical specifications			
Height	3.49 in. (88 mm)	3.49 in. (88 mm)	5.11 in. (129.85 mm)
Width	16.75 in. (425 mm)	16.75 in. (425 mm)	17.185 in. (436.5 mm)
Depth	28.13 in. (714 mm)	28.13 in. (714 mm)	28.81 in. (732 mm)
Weight	Approximately 60 lb. (27.2 kg)	Approximately 60 lb. (27.2 kg)	Approximately 80 lb. (36.28 kg)
Operating system	<ul style="list-style-type: none"> Oracle Solaris 11; Oracle Solaris 10 8/11; Support for Oracle Solaris 10 9/10 and Oracle Solaris 10 10/09 + Oracle Solaris 10 8/11 patch bundle 	<ul style="list-style-type: none"> Oracle Solaris 11; Oracle Solaris 10 8/11; Support for Oracle Solaris 10 9/10 and Oracle Solaris 10 10/09 + Oracle Solaris 10 8/11 patch bundle 	<ul style="list-style-type: none"> Oracle Solaris 11; Oracle Solaris 10 8/11; Support for Oracle Solaris 10 9/10 and Oracle Solaris 10 10/09 + Oracle Solaris 10 8/11 patch bundle

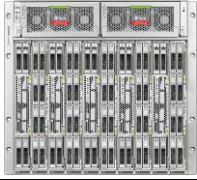

SPARC ENTERPRISE ENTRY-LEVEL SERVERS			
			
Name	SPARC T3-2 Server	Sun SPARC Enterprise T5120 Server	SPARC Enterprise M3000 Server
Processor/CPUs	<ul style="list-style-type: none"> Sixteen-core 1.65 GHz SPARC T3 processor; Two processors per system; Max. 256 threads 	<ul style="list-style-type: none"> Eight-core 1.4 GHz UltraSPARC T2 processor; One processor per system; Max. 64 threads 	<ul style="list-style-type: none"> Quad-core or dual-core 2.86 GHz SPARC64 VII+ processor; One processor per system; Two simultaneous threads per core
Memory	Up to 256 GB	64 GB	Up to 64 GB
Mass storage			
Internal disk	Up to six 300 GB or 600 GB 2.5-in. SAS drives	Up to eight 300 GB or 600 GB 2.5-in. SAS drives, depending upon selected backplane.	Up to four 300 GB or 600 GB SAS disks
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage
Network			
Expansion bus and ports	<ul style="list-style-type: none"> Four 10/100/1000 Mb/sec Ethernet ports; Up to four optional 10 GbE (XAU1) connections and 10 PCIe module slots 	<ul style="list-style-type: none"> Four 10/100/1000 Mb/sec Ethernet ports; Up to two optional 10 GbE (XAU1) connections 	Four 1 GbE ports
Power/cooling			
Power	Two hot-swappable AC 2000 w redundant (N+1) power supplies	<ul style="list-style-type: none"> Two hot-swappable AC 720 w "Climate Saver" power supply units, providing N+1 redundancy, come standard; Also available: DC 660 w power supply unit 	Up to two hot-swappable power supply units
Operating temperature	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)	At sea level: 41°F to 95°F (5°C to 35°C)
Nonoperating temperature	<ul style="list-style-type: none"> -40°F to 149°F (-40°C to 65°C); IEC 60068-2-1 Test Ab and 60068-2-2 Test Bb 	<ul style="list-style-type: none"> -40°F to 149°F (-40°C to 65°C); IEC 60068-2-1 Test Ab and 60068-2-2 Test Bb 	<ul style="list-style-type: none"> -4°F to 140°F (-20°C to 60°C); 93% relative humidity, noncondensing
Rack units	3U	1U	2U
Physical specifications			
Height	5.11 in. (129.85 mm)	1.746 in. (44 mm)	3.43 in. (87 mm)
Width	17.185 in. (436.5 mm)	16.75 in. (425 mm)	17.33 in (44 cm)
Depth	28.81 in. (732 mm)	28.125 in. (714 mm)	25.87 in (65.7 cm)
Weight	Approximately 80 lb. (36.28 kg)	Approximately 40 lb. (18 kg)	48.50 lb. (22 kg)
Operating system	<ul style="list-style-type: none"> Oracle Solaris 11; Oracle Solaris 10 8/11; Support for Oracle Solaris 10 9/10 and Oracle Solaris 10 10/09 + Oracle Solaris 10 8/11 patch bundle 	<ul style="list-style-type: none"> 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 	Minimum OS support: Oracle Solaris 10 9/10 or higher

SPARC ENTERPRISE MID-RANGE SERVERS					
					
Name	SPARC T4-4	SPARC T3-4 Server	Sun SPARC Enterprise T5440 Server	SPARC Enterprise M4000 Server	SPARC Enterprise M5000 Server
Processor/CPU s	<ul style="list-style-type: none"> Two or four SPARC T4 processors at 3.0 GHz; Eight cores per processor 	<ul style="list-style-type: none"> Two or four SPARC T3 processors at 1.65 GHz; Sixteen cores per processor 	<ul style="list-style-type: none"> One to four UltraSPARC T2+ processors per system; Max. 256 threads; 1.4 GHz or 1.6 GHz 	<ul style="list-style-type: none"> Mix and match up to four SPARC64 VI dual-core or SPARC64 VII/VII+ quad-core processors; SPARC64 VI: 2.15 GHz with 5 MB of L2 cache; SPARC64 VII: 2.53 GHz with 5.5 MB of L2 cache; SPARC64 VII+: 2.66 GHz with 11 MB of L2 cache 	<ul style="list-style-type: none"> Mix and match up to four SPARC64 VI dual-core or SPARC64 VII/VII+ quad-core processors; SPARC64 VI: 2.15 GHz with 5 MB of L2 cache; SPARC64 VII: 2.53 GHz with 5.5 MB of L2 cache; SPARC64 VII+: 2.66 GHz with 11 MB of L2 cache
Memory	Up to 1 TB	Up to 512 GB	Up to 256 GB	Up to 128 GB	Up to 256 GB
Mass storage					
Internal disk	<ul style="list-style-type: none"> Up to eight 300 GB or 600 GB 2.5-in. SAS drives or 100 GB or 300 GB SSDs 	<ul style="list-style-type: none"> Up to eight 300 GB or 600 GB 2.5-in. SAS drives 	Up to four 300 GB 2.5-in. SAS drives	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	oracle.com/storage
Network					
Expansion bus and ports	<ul style="list-style-type: none"> Sixteen PCI ExpressModule slots Four integrated 1 GbE ports and Two QSFP ports, each providing four 10 GbE (XAU) network ports 	<ul style="list-style-type: none"> Sixteen PCI ExpressModule slots Four integrated 1 GbE ports, Optionally, two QSFP ports, each providing four 10 GbE (XAU) network ports 	Four 10/100/1000 Mb/sec Ethernet ports; Up to two optional 10 GbE (XAU) 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	<ul style="list-style-type: none"> Two GbE ports Up to four PCIe slots, one PCI-X slot; Up to 25 PCIe slots with external I/O expansion unit 	<ul style="list-style-type: none"> Two GbE ports; Up to eight PCIe slots, two PCI-X slots; Up to 50 PCIe 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 2,060 w redundant (2 + 2) power supplies	Four hot-swappable AC 1,120 w redundant (2 + 2) power supply units	100 to 240 v AC; two power cords	100 to 240 v AC; four power cords
Operating temperature	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 (41°F to 95°F)	5°C to 35°C (41°F to 95°F)
Nonoperating temperature	-40°F to 149°F (-40°C to 65°C); max. altitude 40,000 ft.	-40°F to 149°F (-40°C to 65°C); max. 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	5U	4U	6U	10U
Physical specifications					
Height	8.62 in. (219 mm)	8.62 in. (219 mm)	6.92 in. (176 mm)	10.34 in. (26.3 cm)	17.33 in. (44.02 cm)
Width	15.5 in. (445 mm)	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)	27.6 in. (700 mm)	24.9 in. (633 mm)	31.9 in. (81 cm)	31.9 in. (81 cm)
Weight	Approx. 175 lb. (79 kg)	Max. 175 lb. (79 kg)	Approx. 88 lb. (40 kg)	185 lb. (84 kg)	275 lb. (125 kg)
Operating system	<ul style="list-style-type: none"> Oracle Solaris 10 8/11; Oracle Solaris 11; Support for Solaris 10 	<ul style="list-style-type: none"> Oracle Solaris 10 9/10 Support for Oracle Solaris 10 10/09 	Oracle Solaris 10 8/07 (or later) plus patches	<ul style="list-style-type: none"> SPARC64 VII+ (2.66 GHz); Oracle Solaris 10 8/07 or later SPARC64 VII (2.53 	<ul style="list-style-type: none"> SPARC64 VII+ (2.66 GHz); Oracle Solaris 10 8/07 or later SPARC64 VII (2.53






	<p>9/10: and Oracle Solaris 10 10/9</p> <ul style="list-style-type: none"> + Oracle Solaris 10 8/11 patch bundle 			<p>GHz); Oracle Solaris 10 8/07 or later</p> <ul style="list-style-type: none"> SPARC64 VI (2.15 GHz): Solaris 10 11/06 or later 	<p>GHz); Oracle Solaris 10 8/07 or later</p> <ul style="list-style-type: none"> SPARC64 VI (2.15 GHz); Solaris 10 11/06 or later
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SPARC ENTERPRISE HIGH-END SERVERS			
			
Name	SPARC Enterprise M8000 Server	SPARC Enterprise M9000 Server—32 CPU	SPARC Enterprise M9000 Server—64 CPU
Processor/CPUs	<ul style="list-style-type: none"> Mix and match up to 16 SPARC64 VI dual-core or SPARC64 VII/VII+ quad-core processors; SPARC64 VI: 2.28 GHz to 2.4 GHz with 5 MB or 6 MB of L2 cache; SPARC64 VII: 2.88 GHz with 6 MB of L2 cache; SPARC64 VII+: 3.0 GHz with 12 MB of L2 cache 	<ul style="list-style-type: none"> Mix and match up to 32 SPARC64 VI dual-core or SPARC64 VII/VII+ quad-core processors; SPARC64 VI: 2.28 GHz to 2.4 GHz with 5 MB or 6 MB of L2 cache; SPARC64 VII: 2.88 GHz with 6 MB of L2 cache; SPARC64 VII+: 3.0 GHz with 12 MB of L2 cache 	<ul style="list-style-type: none"> Mix and match up to 64 SPARC64 VI dual-core or SPARC64 VII/VII+ quad-core processors; SPARC64 VI: 2.28 GHz to 2.4 GHz with 5 MB or 6 MB of L2 cache; SPARC64 VII: 2.88 GHz with 6 MB of L2 cache; SPARC64 VII+: 3.0 GHz with 12 MB of L2 cache
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			
Expansion bus and ports	<ul style="list-style-type: none"> Up to 32 PCIe slots per system; Up to 112 PCIe or PCI-X slots with the optional external I/O expansion unit 	<ul style="list-style-type: none"> Up to 64 PCIe slots per system; Up to 224 PCIe or PCI-X slots with the optional external I/O expansion unit 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 200 to 240 v AC single-phase, three 30 A power cords; 208 v AC three-phase delta, two 50 A direct-wired power connections; 415 v AC three-phase, two 30 A direct-wired power connections, double power cords for dual power grid support 	<ul style="list-style-type: none"> 200 to 240 v AC single-phase, three 30 A power cords; 208 v AC three-phase delta, two 50 A direct-wired power connections; 415 v AC three-phase, two 30 A direct-wired power connections, double power cords for dual power grid support 	<ul style="list-style-type: none"> 200 to 240 v AC single-phase, three 30 A power cords; 208 v AC three-phase delta, two 50 A direct-wired power connections; 415 v AC three-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	<ul style="list-style-type: none"> SPARC64 VI (2.28 GHz, 2.4 GHz): Oracle Solaris 10 11/06 or later; SPARC64 VII (2.88 GHz) and SPARC64 VII+ (3.0 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 	<ul style="list-style-type: none"> SPARC64 VI (2.28 GHz, 2.4 GHz): Oracle Solaris 10 11/06 or later; SPARC64 VII (2.88 GHz) and SPARC64 VII+ (3.0 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 	<ul style="list-style-type: none"> SPARC64 VI (2.28 GHz, 2.4 GHz): Oracle Solaris 10 11/06 or later; SPARC64 VII (2.88 GHz) and SPARC64 VII+ (3.0 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


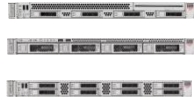

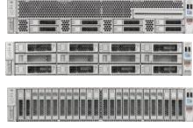

SPARC ENGINEERED SYSTEMS		
		
Name	SPARC SuperCluster T4-4, Full-Rack	SPARC SuperCluster T4-4, Half-Rack
Processor/CPUs	Sixteen eight-core SPARC T4 processors (3.0 GHz)	Eight eight-core SPARC T4 processors (3.0 GHz)
Memory	4 TB	2 TB
Mass storage		
Internal disk	Twenty-four 600 GB 10,000 RPM SAS disks	Twelve 600 GB 10,000 RPM SAS disks
Oracle Exadata Storage Server	Six Oracle Exadata Storage Servers configured with choice of 600 GB 15,000 RPM high-performance (HP) SAS disks or 3 TB 7,200 RPM high-capacity (HC) SAS disks	Three Oracle Exadata Storage Servers configured with choice of 600 GB 15,000 RPM high-performance (HP) SAS disks or 3 TB 7,200 RPM high-capacity (HC) SAS disks
Oracle's Sun ZFS Storage 7320 appliance	Dual controller; Twenty 3 TB high-capacity SAS-2 7200 RPM disks; Four 73 GB write-optimized SSDs; Four 512 GB read-optimized SSDs	<ul style="list-style-type: none"> Dual controller; Twenty 3 TB high-capacity SAS-2 7200 RPM disks; Four 73 GB write-optimized SSDs; Four 512 GB read-optimized SSDs
Network		
Expansion bus and ports	Sixteen 10 GbE; Sixteen InfiniBand QDR; Optional Fibre Channel	Eight 10 GbE; Eight InfiniBand QDR; Optional Fibre Channel
Power/cooling		
Power	Two power supply units	Two power supply units
Operating temperature	41°F to 89.6°F (5°C to 32°C); 10% to 90% relative humidity, noncondensing	41°F to 89.6°F (5°C to 32°C); 10% to 90% relative humidity, noncondensing
Rack units	42U	42U
Physical specifications		
Height	78.66 in. (1998 mm)	78.66 in. (1998 mm)
Width	23.62 in. (600 mm)	23.62 in. (600 mm)
Depth	47.24 in. (1200 mm)	47.24 in. (1200 mm)
Weight	1,900 lb.	1,310 lb.
Operating system	Oracle Solaris 11; Oracle Solaris 10 8/11	Oracle Solaris 11; Oracle Solaris 10 8/11

SUN BLADE 6000 MODULAR SYSTEM		
		
Name	Sun Blade 6000 Chassis	Sun Blade Storage Module M2
Processor/CPUs	SPARC, Intel Xeon	N/A Each module provides up to 2.4 TB of storage and up to 21.6 TB of storage per Sun Blade 6000 chassis
Memory	Up to 384 GB on a single blade; Up to 3.84 TB per chassis	N/A
Mass storage		
Internal disk	Dependent on the server module model and Sun Blade Storage Module M2	Up to eight small form factor 2.5-in. hard disk drives (HDDs) per storage module with SAS-2 interface
External disk and tape	oracle.com/storage	oracle.com/storage
Network		
Expansion bus and ports	<ul style="list-style-type: none"> Each server module has a direct connection to two PCIe ExpressModules for discrete I/O connectivity and Two Network Express Modules for aggregate I/O connectivity 	N/A
Power/cooling		
Power	(n+n) High-efficiency, hot-swappable, load-sharing, load-balancing power supplies	N/A; function of chassis
Operating temperature	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)
Rack units	10U	N/A
Physical specifications		
Height	17.3 in. (438.2 mm)	1.7 in. (44.0 mm)
Width	17.5 in. (444.5 mm)	12.9 in. (327.0 mm)
Depth	27.3 in. (692.2 mm)	20.2 in. (512.0 mm)
Weight	350.0 lb. (159.0 kg) fully configured	Empty: 14.5 lb. (6.6 kg); Loaded: 16.3 lb. (7.4 kg)
Operating system	Function of the server modules	Oracle Solaris; Oracle Linux; Red Hat Enterprise Linux; SUSE Enterprise Linux; VMware; Microsoft Windows Server


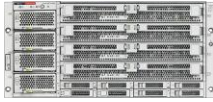
*The Sun Blade 6000 modular system portfolio of products is offered with a range of high-performance, low-latency networking products including switched and pass-through Network Express Modules (NEMs) and PCIe ExpressModules (EMs). For additional blades networking information, please see <http://www.oracle.com/goto/networking>.






BLADE SERVER MODULES					
					
Name	SPARC T4-1B Server Module	SPARC T3-1B Server Module	Sun Blade X6270 M3 Server Module	Sun Blade X6270 M2 Server Module	Sun Blade X6275 M2 Server Module
Processor/ CPUs	One eight-core 64-thread 2.85 GHz SPARC T4 processor	One eight-core 64-thread or one sixteen-core 128-thread 1.6 GHz SPARC T3 processor	Two processors from Intel Xeon processor E5-2600 product family	Intel Xeon (up to 3.33 GHz); Up to two CPUs; Up to 12 cores	<ul style="list-style-type: none"> Intel Xeon (2.93 GHz); Up to four CPUs per blade with two per node; Up to 16 cores per blade with 8 per node Each blade holds two physically separate servers (compute nodes) with two CPUs per server
Memory	Supports 4 GB, 8 GB, or 16 GB	Up to 128 GB	Up to 384 GB	Up to 144 GB	Up to 192 GB
Mass storage					
Internal disk	<ul style="list-style-type: none"> Four SAS interfaces to the midplane, two to each NEM Two hot-swappable SFF 2.5-in. drive bays Supports HDDs and SSDs 	<ul style="list-style-type: none"> Four SAS interfaces to the midplane, two to each NEM Four hot-swappable SFF 2.5-in. drive bays Supports HDDs and SSDs 	<ul style="list-style-type: none"> Four SAS-2 interfaces to the midplane, two to each NEM Four hot-swappable SFF 2.5-in. drive bays Supports HDDs and SSDs 	<ul style="list-style-type: none"> Four SAS-2 interfaces to the midplane, two to each NEM Four hot-swappable SFF 2.5-in. drive bays Supports HDDs and SSDs 	One 3 Gb/sec SATA interface to a Sun Flash Module (per compute node)
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage	oracle.com/storage	oracle.com/storage
Network					
Expansion bus and ports	<ul style="list-style-type: none"> Two 10/100/1000 Base-T Ethernet ports using the Intel 82571ED GbE transceiver One dedicated 10/100 Base-T Ethernet port for the management network, which can be optionally shared with the main network ports if desired 	<ul style="list-style-type: none"> Two 10/100/1000 Base-T Ethernet ports Two 10 GbE ports through optional NEMs One dedicated 10/100 Base-T Ethernet port for the management network 	<ul style="list-style-type: none"> Two 10/100/1000 Base-T Ethernet ports One dedicated 10/100 Base-T Ethernet port for the management network 	<ul style="list-style-type: none"> Two 10/100/1000 Base-T Ethernet ports One dedicated 10/100 Base-T Ethernet port for the management network 	<ul style="list-style-type: none"> One 4x QDR IB port to the NEM slot (per compute node) — Sun Blade X6275 IB Model One 10/100/1000 Base-T Ethernet port (per compute node) using the Intel 82567 GbE Controller One (shared) 10/100 Base-T Ethernet port for the management network One (x8) PCIe 2.0 link (per compute node) to a PCIe ExpressModule slot
Power/cooling					
Power	N/A; function of chassis	N/A; function of chassis	N/A; function of chassis	N/A; function of chassis	N/A; function of chassis
Operating temperature	41°F to 95°F (5°C to 35°C)	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)	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)	-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	N/A	N/A
Physical specifications					
Height	12.88 in. (327.15 mm)	12.88 in. (327.15 mm)	12.9 in. (327.2 mm)	12.9 in. (327.0 mm)	12.9 in. (327.2 mm)
Width	1.75 in. (44.45 mm)	1.75 in. (44.45 mm)	1.8 in. (44.5 mm)	1.7 in. (44.0 mm)	1.8 in. (43 mm)
Depth	19.56 in. (496.82 mm)	19.56 in. (496.82 mm)	20.2 in. (511.7 mm)	20.2 in. (511.7 mm)	20.2 in. (511.7 mm)
Weight	17.0 lb. (7.71 kg)	18.0 lb. (8.3 kg)	20.2 lb. (9.1 kg)	17.4 lb. (7.9 kg)	20.6 lb. (9.4 kg)




<p>Operating system</p>	<ul style="list-style-type: none"> • Oracle Solaris 11 • Oracle Solaris 10 8/11; • Oracle Solaris 10 9/10 	<ul style="list-style-type: none"> • Oracle Solaris 11; • Oracle Solaris 10 9/10 	<ul style="list-style-type: none"> • Oracle Solaris • Oracle Linux; • Red Hat Enterprise Linux • SUSE Linux Enterprise Server • VMware • Microsoft Windows Server 	<ul style="list-style-type: none"> • Oracle Solaris • Oracle Linux • Oracle VM • Red Hat Enterprise Linux; • SUSE Linux Enterprise Server • VMware • Microsoft Windows Server 	<ul style="list-style-type: none"> • Oracle Solaris • Oracle Linux • Oracle VM • Red Hat Enterprise Linux • SUSE Enterprise Linux • VMware • Microsoft Windows Server
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X86 SERVERS					
					
Name	Sun Fire X2270 M2 Server	Sun Fire X4170 M3 Server	Sun Fire X4170 M2 Server	Sun Fire X4270 M3 Server	Sun Fire X4270 M2 Server
Processor/ CPUs	One or two Intel Xeon processor 5600 series CPUs	Two processors from Intel Xeon processor E5-2600 product family	One or two Intel Xeon processor 5600 series CPUs	Two processors from Intel Xeon processor E5-2600 product family	One or two Intel Xeon processor 5600 series CPUs
Memory	Twelve DDR3 DIMM slots (six DIMM slots per CPU socket); Supports from 4 GB (1x 4 GB) to 96 GB (12x 8 GB) of memory	Sixteen DDR3 DIMM slots (eight DIMM slots per CPU socket); Supports from 8 GB (1x 8 GB) to 512 GB (16x 32 GB) of memory	Eighteen DDR3 DIMM slots (nine DIMM slots per CPU socket); Supports from 4 GB (1x 4 GB) to 144 GB (18x 8 GB) of memory	Sixteen DDR3 DIMM slots (eight DIMM slots per CPU socket); Supports from 8 GB (1x 8 GB) to 256 GB (16 x 16 GB) of memory	Eighteen DDR3 DIMM slots (nine DIMM slots per CPU socket); Supports from 4 GB (1x 4 GB) to 144 GB (18x 8 GB) of memory
Mass storage					
Internal disk	Up to four hot-swappable 3.5-in. SATA HDDs	Three disk cage options with front-accessible disk bays: <ul style="list-style-type: none"> Eight 2.5-in. disk bays for SAS-2 HDDs or SATA SSDs Four 2.5-in. disk bays for SAS-2 HDDs or SATA SSDs and DVD R/W drive Four 3.5-in. disk bays for SAS-2 HDDs 	Up to eight hot-swappable 2.5-in. SAS-2 HDDs or SATA SSDs	Three disk cage options with front-accessible disk bays: <ul style="list-style-type: none"> Twenty-four 2.5-in. disk bays for SAS-2 HDDs or SATA SSDs and two rear-accessible 2.5-in. disk bays for SAS-2 HDDs or SATA SSDs Eight 2.5-in. disk bays for SAS-2 HDDs or SATA SSDs and DVD R/W drive Twelve 3.5-in. disk bays for SAS-2 HDDs and two rear-accessible 2.5-in. disk bays for SAS-2 HDDs or SATA SSDs 	Two disk cage options with front-accessible disk bays: <ul style="list-style-type: none"> Twelve 3.5-in. disk bays for SAS-2 HDDs Twenty-four 2.5-in. disk bays for SAS-2 HDDs or SATA SSDs
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage	oracle.com/storage	oracle.com/storage
Graphics	VGA 8 MB; 1600x1200 @ 60Hz	VGA 2D graphics controller embedded	VGA 2D graphics controller embedded	VGA 2D graphics controller embedded	VGA 2D graphics controller embedded
Network					
Expansion bus and ports	One 10/100/1000 Base-T Ethernet port; One serial RJ-45 port; Five USB 2.0 ports; One PCIe 2.0 slot	Four 100/1000/10 Base-T Ethernet ports; One serial RJ-45 port; Six USB 2.0 ports (two front, two rear, two internal); Four PCIe 3.0 slots (one internal, three external)	Four 10/100/1000 Base-T Ethernet ports; One serial RJ-45 port; Five USB 2.0 ports; Three PCIe 2.0 slots	Four 100/1000/10 Base-T Ethernet ports; One serial RJ-45 port; Six USB 2.0 ports (two front, two rear, two internal); Six PCIe 3.0 slots	Four 10/100/1000 Base-T Ethernet ports; One serial RJ-45 port; Five USB 2.0 ports; Six PCIe 2.0 slots
Power/cooling					
Power	Single, nonredundant power supply: 100 to 240 v AC	Dual redundant, hot-swappable power supply: 100 v AC to 240 v AC	Dual redundant, hot-swappable power supply: 100 v AC to 240 v AC	Dual redundant, hot-swappable power supply: 100 v AC to 240 v AC	Dual redundant, hot-swappable power supply: 100 v AC to 240 v AC
Operating temperature	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)	41°F to 95°F (5°C to 35°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)	-40°F to 158°F (-40°C to 70°C)
Rack units	1U	1U	1U	2U	2U
Physical specifications					
Height	1.7 in. (43.4 mm)	1.7 in. (42.6 mm)	1.7 in. (43.4 mm)	3.5 in. (87.6 mm)	3.4 in. (87.1 mm)
Width	17.2 in. (436.8 mm)	17.2 in. (436.8 mm)	16.8 in. (425.5 mm)	17.5 in. (444.5 mm)	16.75 in. (425.5 mm)

Depth	25.6 in. (650 mm)	29.0 in. (737.0 mm)	30.0 in. (685.8 mm)	29.0 in. (737.0 mm)	30.0 in. (762 mm)
Weight (Max)	30.6 lb. (13.9 kg)	36 lb. (16.4 kg)	36 lb. (16.4 kg)	70 lb. (31.8 kg)	65 lb. (29.5 kg)
Operating system	<ul style="list-style-type: none"> • Oracle Solaris; • Oracle Linux; • Oracle VM; • Red Hat Enterprise Linux; • SUSE Linux Enterprise Server; • Microsoft Windows Server 	<ul style="list-style-type: none"> • Oracle Solaris; • Oracle Linux; • Oracle VM; • Red Hat Enterprise Linux; • SUSE Linux Enterprise Server; • VMware; • Microsoft Windows Server 	<ul style="list-style-type: none"> • Oracle Solaris; • Oracle Linux; • Oracle VM; • Red Hat Enterprise Linux; • SUSE Linux Enterprise Server; • VMware; • Microsoft Windows Server 	<ul style="list-style-type: none"> • Oracle Solaris; • Oracle Linux; • Red Hat Enterprise Linux; • SUSE Linux Enterprise Server; • Microsoft Windows Server 	<ul style="list-style-type: none"> • Oracle Solaris; • Oracle Linux; • Oracle VM; • Red Hat Enterprise Linux; • SUSE Linux Enterprise Server; • VMware; • Microsoft Windows Server




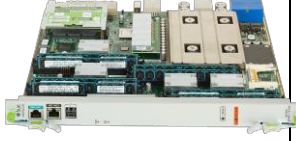
X86 ENTERPRISE-LEVEL SERVERS		
		
Name	Sun Fire X4470 M2 Server	Sun Fire X4800M2 Server
Processor/CPUs	Two or four Intel Xeon processor E7-4800 product family CPUs	Two or four CPU modules, each with two Intel Xeon processor E7-8800 product family CPUs
Memory	<ul style="list-style-type: none"> 4 GB, 8 GB and 16 GB low voltage DDR3 DIMMs DDR3 DIMM slots (16 DIMM slots per CPU socket) Supports up to 1 TB of memory capacity Two memory riser cards required per processor 	128 DDR3 DIMM slots (16 DIMM slots per CPU socket) 4 GB, 8 GB and 16 GB low voltage DDR3 DIMMs Supports up to 2 TB of memory capacity
Internal disk	Six front accessible 2.5-inch disk bays for SAS-2 HDDs or SATA SSDs	Eight front accessible 2.5-inch disk bays for SAS-2 HDDs or SATA SSDs
External disk and tape	Oracle.com/storage	oracle.com/storage
Graphics	VGA 2D graphics controller embedded	VGA 2D graphics controller embedded
Network		
Expansion bus and ports	Four 10/100/1000 Base-T Ethernet ports One dedicated 10/100Base-T Ethernet management port One asynchronous RJ45 serial port Ten PCIe .2.0 slots	Two hot-swappable Network Express Modules; each provides: Four 10GbE network ports via SFP+ connectors Four 1GbE network ports via RJ-45 connectors Eight PCIe ExpressModule slots
Power	Two redundant, hot-swappable power supplies; 100-240 V AC	Four redundant, hot-swappable, front-accessible power supplies: 200—240 V AC
Operating temperature	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 154°F (-40°C to 68°C)	-40°F to 158°F (-40°C to 70°C)
Rack units	3U	5U
Height	5.1 in. (129.5 mm) (Chris, check dimension and weight in data sheet and accuracy to one decimal point)	8.6 in. (218.7 mm)) (Chris, check dimension and weight in data sheet and accuracy to one decimal point)
Width	17.2 in. (436.9 mm)	17.5 in. (444.5 mm)
Depth	28.8 in. (731.5 mm)	27.6 in. (700.0 mm)
Weight (Max)	85 lb. (38.5 kg)	180 lb. (81.65 kg)
Operating system	Oracle Solaris, Oracle Linux, Oracle VM, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, Microsoft Windows Server; VMware	Oracle Solaris, Oracle Linux, Oracle VM, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, Microsoft Windows Server; VMware

NETRA CARRIER-GRADE ULTRASPARC RACKMOUNT SERVERS					
					
Name	Netra SPARC T4-1 Server	Netra SPARC T4-2 Server	Sun Netra T5220 Server	Sun Netra T5440 Server	Netra SPARC T3-1 Server
Processor/CPU	SPARC T4 (2.85GHz)/ one CPU, up to 8-cores	SPARC T4 (2.85GHz) /two 8-core processor	UltraSPARC T2 (1.2 GHz)/one CPU, up to 8 cores	UltraSPARC T2 Plus (1.2 and 1.4 GHz)/2 CPUs, up to 16 cores	SPARC T3 (1.65 GHz)/ one CPU, 16 cores
Memory	Up to 256GB	Up to 512GB	Up to 64 GB	Up to 256 GB	Up to 128 GB
Mass storage					
Internal disk	Up to four 2.5-inch SAS disk drives, with DVD+/-RW	Up to eight 2.5-inch SAS disk drives, with DVD+/-RW	Up to four 2.5-inch SAS disks with no DVD+/-RW, or up to two 2.5-inch SAS disks with DVD+/-RW	Up to twelve 2.5-inch SAS disk with DVD+/-RW	Up to four 2.5-inch SAS disk drives, with DVD+/-RW
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage	oracle.com/storage	oracle.com/storage
Network					
Expansion bus and ports	<ul style="list-style-type: none"> 4x1Gb (10/100/1000MBs) integrated Ethernet ports. Up to two optional slots for 10GbE XAUI connection 5 PCIe module slots 	<ul style="list-style-type: none"> 4x10/100/1000MBs integrated Ethernet ports; Up to two optional 10GbE XAUI connection 10 PCIe module slots 	<ul style="list-style-type: none"> 4x10/100/1000MBs integrated Ethernet ports; up to two optional 10GbE XAUI connection 	<ul style="list-style-type: none"> 4x10/100/1000MBs integrated Ethernet ports; up to two optional 10GbE XAUI connection 	<ul style="list-style-type: none"> 4x10/100/1000MBs integrated Ethernet ports; up to two optional 10GbE XAUI connection 5 PCIe module slots
PCI slots	Five PCIe (2x FH/HL) slots or XAUI combination	Ten PCIe (2x Fh/HL) slots, or XAUI combination slots	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	5 PCIe support both G1 or G2 low profile PCIe cards (x8 electrical, x8 mechanical)
Power/cooling					
Power	DC: -48 V DC or -60 V DC AC Power: 100-240 V AC, 50-60 Hz	DC: -48 V DC or -60 V DC AC Power: 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	DC: -48 V DC or -60 V AC: 100-240 V AC, 50-60 Hz
Operating temperature	41°F to 113°F (5° C to 45°C)	41°F to 113°F (5° C to 45°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)	-40°F to 158°F (-40°C to 70°C)
Rack units	2U	4U	2U	4U	2U
Physical specifications					
Height	3.43 in. (327.2 mm)	6.86 in. (172.2 mm)	3.43 in. (87.1 mm)	6.86 in. (174.2 mm)	3.43 in. (87.1 mm)
Width	17.52 in. (445 mm)	17.52 in. (445 mm)	17.52 in. (445 mm)	17.52 in. (445 mm)	17.52 in. (445 mm)
Depth	20.71 in. (526 mm)	20.87 in. (530 mm)	20.71 in. (526 mm)	20.87 in. (530 mm)	20.71 in. (526 mm)
Weight	41lb. (18.6kg)	72.6 lb. (33 kg)	38.5 lb. (17.5 kg)	72.6 lb. (33 kg)	41 lb. (18.6 kg)
Operating system	Oracle Solaris	Oracle Solaris	Oracle Solaris	Oracle Solaris	Oracle Solaris

NETRA CARRIER-GRADE X86 RACKMOUNT			
			
Name	Sun Netra X4270 M3 Server	Sun Netra X4250 Server	Sun Netra X4270 Server
Processor/CPUs	Two Intel Xeon Processor E5-2600 Product Family (Embedded)	One or two Intel Xeon Processors 5400 Series	One or two Intel Xeon Processors 5500 Series
Memory	Up to 256 GB per system	Up to 64 GB	Up to 144 GB
Mass storage			
Internal disk	<ul style="list-style-type: none"> Eight disk chassis, eight 2.5" SAS-2 front accessible hot swappable disk bays with no DVD-RW. Six disk chassis, six 2.5" SAS-2 front accessible hot swappable disk bays and DVD-RW 	<ul style="list-style-type: none"> Up to four 2.5-inch SAS disks with no DVD+/-RW, Or up to two 2.5-inch SAS disks with DVD-RW DVD+/-RW 	<ul style="list-style-type: none"> Up to four 2.5-inch SAS disks with no DVD+/-RW, Or up to two 2.5-inch SAS disks with DVD-RW DVD+/-RW
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage
Network			
Expansion bus and ports	Four 10/100/1000/10000 Base-T Ethernet ports	Four 10/100/1,000 Mb/sec Ethernet ports	Four 10/100/1000 Mb/sec Ethernet
PCI slots	Six PCIe 3.0 LP slots – Six (6) x8-lane slots	3 PCIe (1x FH/FL) and 2 PCI-X (FH, 1x FL, 1x HL)	<ul style="list-style-type: none"> 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 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	5°C to 45°C (41°F to 113°F), short term -5°C to 55°C (23°F to 131°F)	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°C to 70°C (-40°F to 158°F)	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	3.43 in. (87 mm)	3.43 in. (87.1 mm)	3.43 in. (87.1 mm)
Width	17.52 in. (445 mm)	17.52 in. (445 mm)	17.52 in. (445 mm)
Depth	20.78 in. (527.8 mm)	20.71 in. (526 mm)	20.71 in. (526 mm)
Weight	3840.8 lb. (18.5 kg)	38.5 lb. (17.5 kg)	38.5 lb. (17.5 kg)
Operating system	<ul style="list-style-type: none"> Oracle Linux, Oracle Solaris (pre-installed), Red Hat Enterprise Linux, SUSE Linux Enterprise Server, Microsoft Windows Server 	<ul style="list-style-type: none"> Oracle Solaris, Red Hat Enterprise Linux, SUSE Enterprise Linux, VMware, Microsoft Windows Server 	<ul style="list-style-type: none"> Oracle Solaris, Red Hat Enterprise Linux, SUSE Enterprise Linux, VMware, Microsoft Windows Server
Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty

NETRA CARRIER-GRADE ENTERPRISE BLADE SERVERS					
					
Name	Netra SPARC T4-1B Server Module	Sun Netra 6000 Modular System	Sun Netra X6270 M3 Server Module	Netra SPARC T3-1B Server Module	Sun Netra X6270 M2 Server Module
Processor/CPU	One 8-core 64 thread 2.85GHz SPARC T4 processor	SPARC, Intel Xeon	Two Intel Xeon Processor E5-2600 Product Family (Embedded)	One eight-core or 16-core SPARC T3 processor (1.6GHz)	Two Intel Xeon 5600 series Processors (L5638 6-core 60 watt, 2.0 GHz)
Memory	Up to 256GB	Up to 256 GB on a single blade/up to 2.56 TB per chassis	Up to 384 GB	Up to 256 GB	Up to 144 GB
Mass storage					
Internal disk	<ul style="list-style-type: none"> Four SAS interfaces to the midplane, two to each NEM Two hot-swappable SFF 2.5" drive bays 	N/A	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Four SAS interfaces to the midplane, two to each NEM Four hot-swappable SFF 2.5" drive bays 	<ul style="list-style-type: none"> Four SAS interfaces to the midplane, two to each NEM Four hot-swappable SFF 2.5" drive bays
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage	oracle.com/storage	oracle.com/storage
Network					
Expansion bus and ports	<ul style="list-style-type: none"> Two 10/100/1000 Base-T Ethernet ports using the Intel 82571ED GbE transceiver One dedicated 10/100 Base-T Ethernet port for the management network which can be optionally shared with the main network ports if desired Two optional 10GB XAUI Ethernet ports through dual channel 10 GbE fabric expansion module 	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	<ul style="list-style-type: none"> Two 10/100/1000Base-T Ethernet interfaces, one interface to each Network Express Module slot One 10/100 Ethernet management port to the Chassis Monitoring Module 	<ul style="list-style-type: none"> Two 10/100/1,000Base-T Ethernet ports Two 10Gb Ethernet ports through optional network express modules One dedicated 10/100Base-T Ethernet port for the management network 	<ul style="list-style-type: none"> Two 10/100/1,000Base-T Ethernet ports One dedicated 10/100Base-T Ethernet port for the management network
Power/cooling					
Power	N/A; function of chassis	Power (n+n) high-efficiency AC or DC , hot-swappable, load-sharing, load-balancing power supplies	AC or DC power supply modules	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 113°F (5°C to 45°C)		41°F to 113°F (5°C to 45°C)	41°F to 113°F (5°C to 45°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	10U (AC) or 11U (DC)		N/A	N/A
Physical specifications					
Height	12.9 in. (327.2 mm)	AC: 441.0mm (17.4 in). DC: 485.5 mm (19.1 in.)		12.9 in. (327.2 mm)	12.9 in. (327.2 mm)
Width	1.8 in. (44.5 mm)	AC: 445.0 mm (17.5 in.) / DC: 445.0 mm (17.5 in.)		1.8 in. (44.5 mm)	1.8 in. (44.5 mm)
Depth	20.1 in. (511.7 mm)	AC: 748.3 mm (29.5 in.) / DC: 748.3 mm (29.5 in.)		20.1 in. (511.7 mm)	20.1 in. (511.7 mm)

Weight	16.4 lb. (7.4 kg)	AC: 148.4 kg (327.1 lb) / DC: 158 kg (348.3 lb)		20 lb. (9.1 kg)	17.4 lb. (7.9 kg)
Operating system	Oracle Solaris	Function of the Server Modules	<ul style="list-style-type: none"> • Oracle Linux, Oracle Solaris (Pre-Installed), • Red Hat Enterprise Linux, • SUSE Linux Enterprise Server, • Microsoft Windows Server 	Oracle Solaris	<ul style="list-style-type: none"> • 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	oracle.com/sun/warranty	oracle.com/sun/warranty

NETRA CARRIER-GRADE ATCA BLADES				
				
Name	Sun Netra CT900 ATCA Blade Server Module	Sun Netra CP3260 ATCA Blade Server Module	Sun Netra CP3270 ATCA Blade Server Module	Netra SPARC T3-1BA ATCA Blade Server Module
Processor/C PUs	UltraSPARC, AMD Opteron, Intel Xeon	UltraSPARC T2 Plus (1.2 GHz)/up to 1 CPU, up to 8 cores	Intel Xeon (1.73GHz)/2 CPUs, four cores, 16 threads	SPARC T3 (1.4 GHz) one CPU, up to 12 cores
Memory	N/A; memory resides on blades	Up to 32 GB	Up to 32 GB	Up to 32 GB
Mass storage				
Internal disk	HDD resides on the blades	Dual SAS on rear RTM with support for two hot-swappable 300 GB HDDs	Dual SAS on rear RTM with support for two hot-swappable 300-GB HDDs as well as SAS HDD support through AMC site	1x AdvanceRTM
External disk and tape	oracle.com/storage	oracle.com/storage	oracle.com/storage	oracle.com/storage
Network				
Expansion bus and ports	<ul style="list-style-type: none"> Dual 10/100/1,000 Base-T Ethernet ports Support for 1 G or 10 G switch fabric 	Eight Ethernet channels: <ul style="list-style-type: none"> 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) 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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	DC: -48 V DC or -60 V	Power is a function of the Netra CT900	Function of 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)	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)	-40°F to 158°F (-40°C to 70°C)
Rack units	12U (14-slot)	N/A (ATCA Blade)	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)	12.7 in. (322.25 mm)
Width	17.7 in. (444 mm)	11 in. (280 mm)	11 in. (280 mm)	11 in. (280 mm)
Depth	19 in. (482 mm)	1.18 in. (30 mm)	1.18 in. (30 mm)	1.18 in. (30 mm)
Weight	150 lb. (69 kg)	15 lb. (7 kg)	15 lb. (7 kg)	15 lb. (7 kg)
Operating system	Function of the Blades	Oracle Solaris	<ul style="list-style-type: none"> Oracle Solaris, Oracle Linux, Oracle VM, SUSE Enterprise Linux, VMware, Microsoft Windows Server 	Oracle Solaris

Warranty/service	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty	oracle.com/sun/warranty
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