

# SUN SPARC® SYSTEMS AT A GLANCE



Sun™ SPARC® servers deliver breakthrough performance for a broad spectrum of applications, including web infrastructure, high performance computing, back office (CRM, ERP, DIDW) and IT infrastructure. Available in form factors that include our space and power efficient rack mount servers to scalable and enterprise-class systems optimized for 24/7 mission critical computing, Sun SPARC servers are designed to meet the needs of any data center.

The Solaris™ OS, now with over 7 million downloads and more than 125 world records, offers industry-leading investment protection and more than 10 years of unbroken binary compatibility. Solaris 10, the world's most advanced OS, comes preinstalled on all Sun SPARC systems and is ideal for virtualization and eco computing needs. Solaris 10 containers reduce energy, space, and cooling requirements, and simplify system management.

Visit [sun.com/solaris](http://sun.com/solaris)



The Sun Upgrade Advantage Program (UAP) provides investment protection by allowing customers to trade in qualified Sun servers or competitive servers to receive a discount on new Sun servers.

Visit [sun.com/tradeins](http://sun.com/tradeins)

The Sun Customer Ready Program can reduce time-to-deployment by up to 90 percent by integrating systems based on Sun and third-party products at the factory, as well as performing most of the Sun Enterprise Installation Services activities before shipment. This helps minimize risk in IT deployments, and reduce early-life system issues by up to 80 percent. A choice of Sun Customer Ready architected systems is available or systems can be built to unique customer specifications.

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	 <b>Sun SPARC® Enterprise™ T1000</b>	 <b>Sun SPARC Enterprise T2000</b>	 <b>Sun Fire™ T1000</b>	 <b>Sun Fire T2000</b>	 <b>Sun Fire v125</b>	 <b>Sun Fire v215</b>	 <b>Sun Fire v245</b>	 <b>Sun Fire v445</b>
<b>Processor</b>	6 or 8 core, one 1.0 GHz UltraSPARC T1 processor	One 4 or 8 core 1.0 GHz, or 8 core 1.2 GHz, or 8 core 1.4 GHz UltraSPARC T1 processor	6 or 8 core, one 1.0 GHz UltraSPARC T1 processor	One 4 or 8 core 1.0 GHz, or 8 core 1.2 GHz, or 8 core 1.4 GHz UltraSPARC T1 processor	One 1.0 GHz UltraSPARC III processor	One or two 1.5 GHz UltraSPARC III processor	One or two 1.5 GHz UltraSPARC III processor	Two or four 1.6 GHz UltraSPARC III processor
<b>Memory</b>	Up to 32 GB (support for 512 MB, 1 GB, 2 GB or 4 GB DIMMs)	Up to 64 GB (support for 512 MB, 1 GB, 2 GB or 4 GB DIMMs)	Up to 32 GB (support for 512 MB, 1 GB, 2 GB or 4 GB DIMMs)	Up to 64 GB (support for 512 MB, 1 GB, 2 GB or 4 GB DIMMs)	1 GB to 8 GB	1 GB to 16 GB	1 GB to 16 GB	4 GB to 32 GB
<b>Mass storage</b>	One 160 GB SATA or two 73/146 GB SAS drives	Up to four 73 GB or 146 GB SAS disks	One 160 GB SATA or two 73/146 GB SAS drives	Up to four 73/146 GB SAS disks	Up to two 73/146 GB SAS disks	Up to two 73/146 GB SAS disks	Up to four 73/146 GB 2.5 in. SAS disks	Up to eight 73/146 GB SAS disks
<b>Network and I/O options</b>	Four 10/100/1000 Mbps Ethernet, one PCIe	Four 10/100/1000 Ethernet, three PCIe, two PCI-X	Four 10/100/1000 Mbps Ethernet, one PCIe	Four 10/100/1000 Ethernet, three PCIe, two PCI-X	Two 10/100/1000 Base-T Ethernet ports, one PCI	Four 10/100/1000 Base-T Ethernet, one PCI-X, one PCIe	Four 10/100/1000 Base-T Ethernet, two PCI-X, two PCIe	Four 10/100/1000 Base-T Ethernet, four PCIe, four PCI-X
<b>Power/cooling</b>	One 300W power supply	Two redundant, 450W hot-swappable power supplies	One 300W power supply	Two redundant, 450W hot-swappable power supplies	One 320W power supply	One 320W required, two for redundancy (hot-swappable)	One 400W required, two for redundancy (hot-swappable)	Two 788W required, four for redundancy (hot-swappable)
<b>Physical specifications</b>	One rack unit	Two rack units	One rack unit	Two rack units	One rack unit	One rack unit	Two rack units	Four rack units
<b>Operating system/software</b>	Solaris™ 10 preinstalled, Linux	Solaris 10 preinstalled, Linux	Solaris 10 preinstalled, Linux	Solaris 10 preinstalled, Linux	Solaris 10 OS beginning with 03/05 Solaris 9 OS beginning with 09/04	Solaris 10 OS beginning with 06/06 Solaris 9 OS beginning with 09/05 HW	Solaris 10 OS beginning with 06/06 Solaris 9 OS beginning with 09/05 HW	Solaris 10 OS beginning with 06/06 Solaris 9 OS beginning with 09/05 HW
<b>Warranty</b>	1 year – Business hours/next business day on-site. Defective media 90 days.	1 year – Business hours/next business day on-site. Defective media 90 days.	1 year – Business hours/next business day on-site. Defective media 90 days.	1 year – Business hours/next business day on-site. Defective media 90 days.	1 year – Return to Sun. Defective media 90 days.	1 year – Business hours/next business day on-site. Defective media 90 days.	1 year – Business hours/next business day on-site. Defective media 90 days.	1 year – Business hours/next business day on-site. Defective media 90 days.



**Sun Fire  
v490**



**Sun Fire  
v890**



**Sun Fire  
E2900**



**Sun Fire  
E4900**



**Sun Fire  
E6900**

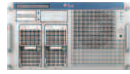


**Sun Fire  
E20K**



**Sun Fire  
E25K**

<b>Processor</b>	UltraSPARC IV+, IV	UltraSPARC IV+, IV	UltraSPARC IV+, IV	UltraSPARC IV+, IV	UltraSPARC IV+, IV	UltraSPARC IV+, IV	UltraSPARC IV+, IV
<b>CPUs</b>	Up to 4	Up to 8	Up to 12	Up to 12	Up to 24	Up to 36	Up to 72
<b>Clockspeed</b>	Up to 2.1 GHz	Up to 2.1 GHz	Up to 1.95 GHz	Up to 1.95 GHz	Up to 1.95 GHz	Up to 1.95 GHz	Up to 1.95 GHz
<b>Uniboards or CPU memory boards</b>	Up to 2 dual processor/memory modules	Up to 4 dual processor/memory modules	Up to three 4 CPU/ memory boards	Up to three 4 CPU/ memory boards	Up to six 4 CPU/ memory boards	Up to nine 4 CPU/ memory boards with four processors each	Up to 18 Uniboard CPU/memory boards with four processors each
<b>Maximum memory</b>	Up to 64 GB	Up to 128 GB	Up to 192 GB	Up to 192 GB	Up to 384 GB	Up to 576 GB	Up to 1.15 TB
<b>Domains (fault isolated)</b>	1	1	1	1-2	1-4	Up to 9	Up to 18
<b>Operating system/software</b>	Solaris 9 9/05 and Solaris 10 3/05 HW1	Solaris 9 9/05 and Solaris 10 3/05 HW1	Solaris 9 9/05 and Solaris 10 3/05 HW1	Solaris 9 9/05 and Solaris 10 3/05 HW1	Solaris 9 9/05 and Solaris 10 3/05 HW1	Solaris 9 9/05 and Solaris 10 3/05 HW1	Solaris 9 9/05 and Solaris 10 3/05 HW1
<b>Integrated devices</b>	FC-AL disk controller two 10/100/1000 Ethernet, serial port, 2 USB DVD-ROM or DVD R/W	FC-AL disk controller, one gigabit Ethernet (Fibre Channel), one 10/100 Ethernet BASE-T, serial port, 2 USB, DVD-ROM or DVD R/W	Standby System Controller 10/100 and two gigabit Ethernet ports. UltraSCSI 3 disk controller. Serial/modem ports, 10/100 SSC Ethernet port. DVD-ROM, optional DDS4 tape	System Controller (2nd system Controller is optional) 10/100 Ethernet SC port serial/modem port	Two system controllers, two 10/100 Ethernet SC port, serial/modem port	Supports 10/100 BaseT Ethernet, gigabit Ethernet, UltraSCSI (LVD and HVD), ATM, FC-AL, HSI, and SCI	Supports 10/100 BaseT Ethernet, gigabit Ethernet, UltraSCSI (LVD and HVD), ATM, FC-AL, HSI, and SCI
<b>Network and I/O options</b>	6 PCI	9 PCI	6 PCI-X	19 PCI-X	32 PCI-X	Up to 36 hot swappable PCI-X I/O slots, 27 slots are 90 MHz, nine slots are 33 MHz	Up to 72 hot swappable PCI-X I/O slots, 54 slots are 90 MHz, 18 slots are 33 MHz
<b>Power/cooling</b>	AC power: 200–240 VAC, 47–63 Hz, 2078 VA. Input per power supply/system of 1600W (mfg. Rating)	AC power: 200-240 VAC, 47-63 Hz, 2078 VA—two required, three for redundancy, each with independent power cord	AC power: 200-240V single phase AC, 47-63 Hz, with two 11/13 Amp circuits redundant with another two on a separate grid	AC power: 200–240 VAC (47–63 Hz), 16 Amp	AC power: 200-240V single phase AC, 47-63 Hz, with two 11/13 Amp circuits redundant with another two on a separate grid	AC power: 200-240 single-phase VAC, 47-63 Hz. Two N+1 power grids, each using six 30 Amp circuits. Second power grid provided for redundancy.	AC power: 200-240 single-phase VAC, 47-63 Hz. Two N+1 power grids, each using six 30 Amp circuits. Second power grid provided for redundancy.
<b>Physical specifications</b>	Rack 8.75 in. high 5RU	Rackmountable tower 28 in. high 17 RU	Rack 21 in. high 12 RU	Rack 30 in. high 17.5 RU	Datacenter rack 75 in. high 28 RU	H 191 cm x W 85 cm x D 166 cm	H 191 cm x W 85 cm x D 166 cm
<b>Warranty</b>	3 years – Business hour/next business day on-site. Defective media 90 days.	3 years – Business hour/next business day on-site. Defective media 90 days.	1 year – Business hours/next business day on-site. Defective media 90 days.	1 year – 7x24 with 4 hour response time. Defective media 90 days.	1 year – 7x24 with 4 hour response time. Defective media 90 days.	1 year – 7x24 with 4 hour response time. Defective media 90 days.	1 year – 7x24 with 4 hour response time. Defective media 90 days.



**Sun SPARC Enterprise M4000**



**Sun SPARC Enterprise M5000**



**Sun SPARC Enterprise M8000**



**Sun SPARC Enterprise M9000 32 CPU**



**Sun SPARC Enterprise M9000 64 CPU**

<b>Processor</b>	Up to four SPARC64 VI dual core processors	Up to eight SPARC64 VI dual core processors	Up to sixteen SPARC64 VI dual core processors	Up to 32 SPARC64 VI dual core processors	Up to 64 SPARC64 VI dual core processors
<b>CPUs</b>	One or two CPU boards (CMU), two CPUs per board	One or four CPU boards (CMU), two CPUs per board	One or four CPU memory boards (CMU), with up to four processors per board	Up to eight CPU memory boards, up to four processors per board	Up to 16 CPU memory boards, up to four processors per board
<b>Clockspeed</b>	Up to 2.15 GHz	Up to 2.15 GHz	2.28 or 2.4 GHz	2.28 or 2.4 GHz	2.28 or 2.4 GHz
<b>Memory</b>	Up to 128 GB per domain/system using 4 GB DIMMs	Up to 256 GB per domain/system using 4 GB DIMMs	Up to 512 GB per domain/system using 4 GB DIMMs	Up to 1 TB using 4 GB DIMMs	Up to 2 TB using 4 GB DIMMs
<b>Dynamic domains</b>	Up to 2	Up to 4	Up to 16	Up to 24	Up to 24
<b>Operating system/software</b>	Solaris 10 (11/06)	Solaris 10 (11/06)	Solaris 10 (11/06)	Solaris 10 (11/06)	Solaris 10 (11/06)
<b>Internal storage</b>	Up to two 2.5 in. SAS boot disks	Up to four 2.5 in. SAS boot disks	Up to sixteen 2.5 in. SAS boot disks/ four per IOU	Up to 32 - 2.5 in. SAS boot disks/ four per IOU	Up to 64 - 2.5 in. SAS boot disks/ four per IOU
<b>I/O slots</b>	Up to four PCIe, one PCI-X. Up to 25 PCIe or PCI-X slots with external I/O expansion unit	Up to eight PCIe, two PCI-X. Up to 50 PCIe or PCI-X slots with external I/O expansion unit	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
<b>Server virtualization/partitioning</b>	Dynamic domains/Solaris containers	Dynamic domains/Solaris containers	Dynamic domains/Solaris containers	Dynamic domains/Solaris containers	Dynamic domains/Solaris containers
<b>Power</b>	AC power: 100-240 VAC 1-phase (50/60 Hz) 12 Amp per power cord, one or two power cords	AC power: 100-240 VAC 1-phase (50/60 Hz) 12 Amp per power cord, two or four power cords	Option 1 – AC Power: 200-240 VAC 1-phase (50/60 Hz), 30A. Power cords: Three (six with the optional dual power feed) Option 2 – AC power: 208 VAC 3-phase DELTA (50/60 Hz), 50A. Power cords: two direct wired power connections	Option 1 – AC power: 200-240 VAC 1-phase (50/60 Hz). 30A power cords: five cords (10 with the optional dual power feed) Option 2 – AC power: 208 VAC 3-phase DELTA (50/60 Hz), 80A power cords: two direct-wired power connections Option 3 – AC power: 415 VAC 3-phase STAR (50/60 Hz), 50A power cords: two direct-wired power connections	Option 1 – AC power: 200-240 VAC 1-phase (50/60 Hz), 30A power cords: 10 cords (20 with the optional dual power feed) Option 2: AC power: 208 VAC 3-phase DELTA (50/60 Hz), 80A power cords: four direct-wired power connections Option 3 – AC power: 415 VAC 3-phase STAR (50/60 Hz), 50A power cords: four direct-wired power connections
<b>Physical specifications</b>	Rack-optimized 6RU	Rack-optimized 10RU	H 180 cm x W 75 cm x D 126 cm. Optional power expansion cabinet required for 3-phase power distribution. Dimensions per cabinet: H 180 cm x W 31.7 cm x D 123.3 cm	H 180 cm x W 85 cm x D 126 cm Optional Power expansion cabinet required for 1-phase DPF or 3-phase power distribution: one cabinet required for the 32 CPU system. Dimensions per cabinet: H 180 cm x W 31.7 cm x D 124.4 cm	H 180 cm x W 167.4cm x D126 cm Optional Power expansion cabinet required for 1-phase DPF or 3-phase power distribution. Two cabinets required or the 64 CPU system. Dimensions per cabinet: H 180 cm x W 31.7 cm x D 124.4 cm
<b>Warranty</b>	1 year – Business hours/next business day on-site. Defective media 90 days.	1 year – Business hours/next business day on-site. Defective media 90 days.	1 year – Business hours/next business day on-site. Defective media 90 days.	1 year – Business hours/next business day on-site. Defective media 90 days.	1 year – Business hours/next business day on-site. Defective media 90 days.

**Learn More.**

For more information on the  
SPARC systems visit [sun.com/servers](http://sun.com/servers)



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