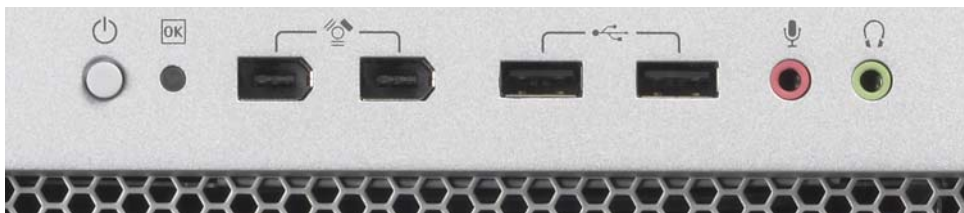


# Sun x64 Systems At-A-Glance



## Sun x64 Systems: World-Class Performance, Industry-Standard Platforms

Sun x64 systems deliver leading performance, security, and reliability. Now available in both dual-core and single-core configurations, Sun x64 servers are key components of horizontally scalable solutions that, along with software, storage, and services, increase performance and reduce cost and complexity. These systems are double the density of comparable systems but use much less energy and floor space. In addition, Sun workstations give scientists and design engineers better tools for visualization and simulation tasks, and allow developers to take the programming process from code to execution.

Sun x64 systems deliver unmatched price/performance. Sun servers and workstations feature the AMD Opteron™ processor for benchmark-setting performance for your most demanding applications.

### Sun and AMD deliver unmatched price/performance

Sun servers and workstations feature the AMD Opteron™ processor—for virtually unparalleled price/performance.

### Investment protection and room for growth

Sun systems handle simultaneous 32-bit and 64-bit computing and deliver optimal horizontal scalability—so infrastructures can grow as businesses expand.

### Flexibility to maximize resource utilization

Sun systems powered by the AMD Opteron processor deliver the security of the Solaris Operating System and the flexibility to run existing applications—whether for Windows or Linux, 32-bit or 64-bit.

## Software Support

### Solaris™ 10 Operating System

Solaris 10 OS: With more than 600 new features, offered free for commercial use, Solaris 10 OS is the most advanced operating system on the planet. Visit: [sun.com/solaris](http://sun.com/solaris).

### Linux

Sun x64 systems featuring AMD Opteron processors support maximum flexibility and performance on the Linux platform. For more information, visit: [sun.com/software/linux](http://sun.com/software/linux)

### Sun Java™ Enterprise System (JES)

Synchronizes IT investment with business priorities, combining software and services as a single entity, to optimize performance on Sun x64 systems. For more information, visit: [sun.com/software/javaenterprisesystem](http://sun.com/software/javaenterprisesystem).

### Java™ Studio Tool

Now with Sun x64 systems, developers can code, compile, debug, and deploy 32-bit and 64-bit applications from a single workstation. For more information, visit: [today.java.net/pub/n/sunjavaenterprise promo](http://today.java.net/pub/n/sunjavaenterprise promo).

### Sun N1™ System Manager

Designed specifically to address the problems associated with managing infrastructure throughout its lifecycle, N1 System Manager helps customers provision, monitor, and manage Sun x64 servers. For more information, visit: [sun.com/software/products/system\\_manager](http://sun.com/software/products/system_manager).

cover the Solaris 10 Operating System, Red Hat Linux and/or SUSE LINUX software, and Microsoft Windows operating system. For more information, visit: [sun.com/service/solutions/index.html](http://sun.com/service/solutions/index.html).

### Sun Enterprise Installation Services

Proper installation of your hardware and software is critical to optimizing your system performance. Let the experts help ensure you get the most out of your investment. For more information, visit: [sun.com/service/consulting/installintegrate/installation.html](http://sun.com/service/consulting/installintegrate/installation.html).

### Support Services

Sun custom-designs and tests whole infrastructures tailored to customer needs at its authorized Sun Partner Advantage Program Ready Centers. For more information, visit: [sun.com/service/solutions/index.html](http://sun.com/service/solutions/index.html).

### Educational Services

Sun, a leader in providing quality IT training from the source, delivers a maintenance/troubleshooting self-paced course for Sun Fire X4100 and X4200 servers, and a broad range of Solaris 10 OS training and certification options for system and network administrators. For more information, visit: [sun.com/thirdparty/global/sap/service/suned.html](http://sun.com/thirdparty/global/sap/service/suned.html).

### Sun™ Customer Ready Systems

Sun builds complete, ready-to-use systems according to customer specifications. For more information, visit: [sun.com/products/architectures-platforms/crsp](http://sun.com/products/architectures-platforms/crsp).

### Sun Managed Operations Services

For remote monitoring and management expertise, Sun Managed Operations Services provides multivendor support for heterogeneous computing environments and infrastructures from the source. For more information, visit: [sun.com/service/mgdopservices](http://sun.com/service/mgdopservices).

## Services

### Sun Service Plans

Sun is committed to supporting your every need, and now offers world class heterogeneous service plans that

# Sun x64 Systems At-A-Glance

## Sun Fire™ Data Center Servers



Sun Fire V20z



Sun Fire V40z



Sun Fire X2100



Sun Fire X4100



Sun Fire X4200



Sun Grid Rack System

<b>CPU</b>	Up to two single-core or dual-core AMD Opteron 200 Series processors	Up to four single-core or dual-core AMD Opteron 800 Series processors	One single-core or dual-core AMD Opteron processor	Up to two single-core or dual-core AMD Opteron processors	Up to two single-core or dual-core AMD Opteron processors	<b>Server nodes</b>	Sun Fire X2100, X4100, X4200, in addition to Sun Fire V20z, and V40z servers
<b>CPU speed</b>	Up to 2.6 GHz	Up to 2.6 GHz	Up to 2.6 GHz	Up to 2.8 GHz	Up to 2.8 GHz	<b>OS</b>	Solaris 10 OS for X86, Red Hat Enterprise Linux, SUSE LINUX Enterprise Server, or Microsoft Windows
<b>Level 2 cache</b>	1 MB	1 MB	1 MB	1 MB	1 MB	<b>Infrastructure</b>	Sun Rack 1000, industry-standard 19-inch rack, with 38 or 42 rack-units; includes cabling of components. Integrated at the factory by Sun™ Customer Ready Systems program
<b>Main memory</b>	Up to 16 GB	Up to 32 GB	Up to 4 GB	Up to 16 GB	Up to 16 GB	<b>Networking</b>	Cisco Catalyst 3750 Series Switch(es), with 24/48 Gigabit Ethernet ports
<b>Internal disks</b>	Up to two	Up to six	Up to two	Up to two w/DVD-ROM or up to four w/o DVD-ROM	Up to four w/DVD-ROM	<b>Recommended software</b>	N1 System Manager or Sun Control Station for system management, N1 Grid Engine software for distributed resource management
<b>Internal disk types</b>	73 GB/10K RPM, 146 GB/10K RPM, 73 GB/15K RPM, 300 GB/10K RPM Ultra320 SCSI	73 GB/10K RPM, 146 GB/10K RPM, 73 GB/15K RPM, 300 GB/10K RPM Ultra320 SCSI	80/250 GB/7,200 RPM SATA	36/73 GB/10K RPM SAS	36/73 GB/10k RPM SAS	<b>Web services option</b>	Includes Sun Secure Application Switch N1000 series, N1 Service Provisioning System, Sun Java Enterprise System, or Sun Java System Suites
<b>I/O slots</b>	Two PCI-X slots	Seven PCI-X slots	One PCI-Express x8 slot	Two PCI-X slots	Five PCI-X slots,		
<b>Remote management</b>	Lights Out Management (LOM) service processor, in-band, out-of-band management, remote power on/off, FRU status, software load	Lights Out Management (LOM) service processor, in-band, out-of-band management, remote power on/off, FRU status, software load	IPMI 1.5 compliant service processor (optional)	Sun Integrated Lights Out Manager (ILOM) offers graphical interface for remote media capability and remote management with full KVMs	Sun Integrated Lights Out Manager (ILOM) offers graphical interface for remote media capability and remote management with full KVMs		
<b>Operating system</b>	Solaris 9 and 10 OS, Red Hat Enterprise Linux, SUSE LINUX Enterprise Server, Microsoft Windows	Solaris 9 and 10 OS, Red Hat Enterprise Linux, SUSE LINUX Enterprise Server, Microsoft Windows	Solaris 10 OS, Red Hat Enterprise Linux, SUSE LINUX Enterprise Server, Microsoft Windows	Solaris 10 OS, Red Hat Enterprise Linux, SUSE LINUX Enterprise Server, Microsoft Windows	Solaris 10 OS, Red Hat Enterprise Linux, SUSE LINUX Enterprise Server, Microsoft Windows		

## Workstation Products



Sun Java Workstation W1100z



Sun Java Workstation W2100z



Sun Ultra 20 Workstation

<b>CPU</b>	One AMD Opteron processor	Up to two AMD Opteron processors	One AMD Opteron processor
<b>CPU speed</b>	Up to 2.4 GHz	Up to 2.6 GHz	Up to 2.6 GHz
<b>Level 2 cache</b>	1 MB	1 MB	1 MB
<b>Main memory</b>	Up to 8 GB	Up to 16 GB	Up to 4 GB
<b>Internal disks</b>	Up to two	Up to four	Up to two
<b>Internal disk types</b>	80 GB Ultra ATA 100	73 GB/146 GB Ultra320 SCSI	80/250 GB, 500 GB max SATA
<b>I/O slots</b>	Five PCI-X slots, one AGP8x slot	Five PCI-X slots, one AGP8x slot	One PCI-Express x16 slot, two PCI-Express x1 slots, four conventional PCI slots
<b>Graphics</b>	Support for one NVIDIA Quadro NVS280, NVIDIA Quadro FX500, NVIDIA Quadro FX3000, or NVIDIA Quadro FX4000 graphics accelerator	Support for one NVIDIA Quadro NVS280, NVIDIA Quadro FX500, NVIDIA Quadro FX3000, or NVIDIA Quadro FX4000 graphics accelerator	On-board ATI 2-D graphics controller. Support for one NVIDIA Quadro NVS280, NVIDIA Quadro FX1400 PCI-Express graphics accelerator
<b>Operating system</b>	Solaris 9 and 10 OS, Red Hat Enterprise Linux and SUSE LINUX, Microsoft Windows	Solaris 9 and 10 OS, Red Hat Enterprise Linux and SUSE LINUX, Microsoft Windows	Solaris 10 OS, Red Hat Enterprise Linux, SUSE LINUX, Microsoft Windows



## Sun™ Secure Application Switches N1000/N2000 Series



Sun Secure Application Switch—  
N1000/N2000 Series

- Virtual Switching Technology (up to 10 vSwitches)
- High-performance Layer 4 through Layer 7 application switching and load balancing with hardware-based TCP termination
- Inline and out-of-band health checking
- Advanced embedded management system with industry-standard CLI, HTTPS GUI, SNMP v1/v2/v3, and XML