SUN FIRE X4140 SERVER

KEY FEATURES

INDUSTRY-LEADING PERFORMANCE, EXPANDABILITY, AND POWER EFFICIENCY

- The highest performance and up to twice the memory capacity and networking connectivity of any system in its class
- Designed for the Six-Core AMD Opteron processors, delivering blazing speed for high-performance computing (HPC)/grid computing and Web infrastructure, as well as research, manufacturing, and business environments
- The highest density in terms of CPU, memory, I/O, and disk capacities—plus virtualization capability—empowers businesses to save on equipment and real estate expenses
- Integrated Lights Out Manager (ILOM) makes systemwide management incredibly simple from any location worldwide
- Runs Oracle Solaris, Oracle Enterprise Linux, Red Hat Enterprise Linux, Novell SUSE Enterprise Linux, VMware, and Microsoft Windows Operating System
- Optional HPC services and training to optimize your server implementation
- Improve power and efficiency with AMD HyperTransport3 and HyperTransport Assist and more power-efficient components

Oracle is helping today's enterprises meet the challenges of escalating data center requirements, power costs, real estate needs, and the pressure to bring products to market faster. Oracle's Sun Fire X4140 server integrates industry-leading AMD Opteron processors, massive storage and memory capacity, and superior networking connectivity to provide the fastest, most scalable x64 system in its class.



The Sun Fire X4140 server provides leading performance, expandability, and power efficiency.

Flexible Architecture Designed for Longevity

With a host of flexible options, and superior performance and hardware expandability, the Sun Fire X4140 server offers a solution designed to effectively manage constantly increasing data center costs and requirements, while providing the power and capacity to fuel a new generation of business growth. The server's massive hard drive and memory capacity, leading-edge AMD Opteron processors, and superior expandability make it an ideal workhorse for Web infrastructure, HPC/grid computing, virtualization, and disk-intensive applications, as well as for any large-scale manufacturing, research, science, or business environment.

The system also includes a host of advanced features and capabilities designed to reduce administration, service, and support complexity. For example, Sun's ILOM enables remote control from virtually anywhere in the world; in addition, easily accessible hot-swappable redundant cooling fans, power supplies, and disks make servicing simple. And the advanced management tools streamline command of massive grid deployments, improve the ratio of systems to administrators, and lower operational costs.

Oracle offers a suite of services to optimize your Sun Fire X4140 server implementation. These services focus on delivering proven expertise and responsive, consistent service quality to help you achieve high availability within your IT infrastructures. Oracle can also help you architect, deploy, and manage your IT initiatives for faster time to deployment with reduced risk.



Sun Fire X4140 Server Specifications

Architecture		
Processor	One or two Six-Core AMD Opteron processors	
Cache	6x 512 KB L2 and 6 MB L3 for six-core processor	
	• 3 MB L2 and 6 MB L3 for six-core processor	
Main memory	16 DDR2 DIMM slots (eight DIMM slots per CPU socket); system supports from 4 GB (2x 2GB) to 128 GB (16x 8 GB) of memory	
Standard Integrated Interfaces		
Network	Four 10/100/1000Base-T Ethernet ports	
Network management	One dedicated 10/100Base-T Ethernet port	
Serial management	One TIA/EIA-232-F asynchronous RJ-45 connector	
USB	Five USB 2.0 ports (two front, two rear, one internal)	
Expansion bus	Three internal MD2 low-profile 64-bit PCI Express slots (1x 16-lane, 2x 8-lane)	
Software		
Operating systems	Choice of OS: Oracle Solaris, Oracle Enterprise Linux, Red Hat Enterprise Linux, Novell SUSE Enterprise Linux, VMware, Microsoft Windows Operating System	
Languages	• C/C++, Fortran	
	Java programming language	
	All other standard Sun-supported languages	
Networking	ONC, ONC+, NFS, WebNFS, TCP/IP, SunLink, OSI, MHS, IPX/SPX, SMB technologies, and XML	
Management	CLI (in-band and out-of-band), IPMI 2.0 (in-band and out-of-band), SNMP (out-of-band only)	
	ILOM with dedicated 10/100Base-T Ethernet port	
	Hot-swappable 2.5 in. internal disk; up to eight SAS disk drives with add-on SAS host bus adapter (HBA)	
Mass storage and media	146 GB 10,000 rpm and 300 GB 10,000 rpm 2.5 in. SAS drives supported. 32 GB 2.5 in. SATA SSD drive supported	
	• One DVD ± RW drive (PATA based)	
RAID configuration	Add-on RAID 0, 1, 1E, 5, 5EE, 6, 10, 50, 60	
I	with SAS RAID HBA	



Environment		
Operating temperature	5°C to 35°C (41°F to 95°F)	
Nonoperating temperature	-40°C to 65°C (-40°F to 149°F)	
Operating relative humidity	10%–90%, noncondensing	
Nonoperating relative humidity	Up to 93%, noncondensing	
Operating altitude	Up to 3,000 m, max. ambient temperature is derated by 1°C per 300 m above 900 m	
Nonoperating altitude	Up to 12,000 m	
Acoustic noise	LwAd: At max. ambient, 6.6 B LpAm bystander: At max. ambient, 51 dB	

Power

- Dual-redundant, hot-swappable power supply
- UL max. input power: 8.2A rms at 100 V AC
- Power supply output rating: 650 W
- AC power: 100–120 V/200–240 V AC (50/60 Hz)

Regulations		
Safety	IEC 60950, UL/CSA 60950, EN 60950, CB Scheme with all country differences	
RFI/EMI	FCC CFR 47 Part 15 Class A, EN 55022Class A, EN 61000-3-2, EN 61000-3-3, EN 300 386	
Immunity	EN 55024, EN 300 386	
Certifications		
Safety	UL/cUL, UL DEMKO, CE, BSMI, CCC, GOST-R, S-Mark	
EMC	CE, FCC, VCCI, ICES, C-Tick, MIC, CCC, GOST-R, BSMI Class A	
Other	Complies with WEEE Directive (2002/96/EC) and RoHS Directive (2002/95/EC)	
Dimensions and Weight		
Height	44 mm (1.746 in.)	
Width	426 mm (16.75 in.)	
Depth	714 mm (28.125 in.)	
Weight	16.55 kg (36.49 lb.) min.	
	18.55 kg (40.90 lb.) max.	

Mounting Options

- Rackmount slide rail kit
- Toolless rackmount slide rail kit
- Cable management arm



Warranty

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

Services

Visit oracle.com/sun/services for information on Oracle's service program offerings for Sun products.

Contact Us

For more information about Oracle's Sun Fire X4140 server, please visit oracle.com/sun or call +1.800.786.0404 to speak to an Oracle representative.





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