The Sun Fire X4100 server is a key component in standardizing your infrastructure, helping to lower total cost of ownership (TCO), simplifying data center management, and achieving industry-leading performance. The Sun Fire X4100 server runs 32-bit and 64-bit applications and delivers 100 percent industry-standard x64 computing.

The Sun Fire X4100 server is the only one-U enterprise x64 server with hot-swappable, redundant fans. It also has hot-swappable, redundant power supplies and high-performance, hot-swappable disk drives with onboard RAID that help maximize system uptime. Powered by up to two single- or dual-core AMD Opteron™ processors, the Sun Fire X4100 server comes preinstalled with the Solaris Operating System and Sun Java™ Enterprise System software.

Designed from the ground up to facilitate system management, the Sun Fire X4100 server architecture provides Integrated Lights Out Manager (ILOM) and state-of-the-art remote automation that integrates at the data center level. With zero-touch capabilities managed through a variety of interface options, the Sun Fire X4100 server’s architecture simplifies installation, deployment, and maintenance. The only x64 server in its class with four Gigabit Ethernet ports, the Sun Fire X4100 server provides multiple connectivity for high-speed, high-bandwidth networking. It also comes with PCI-X and PCI-Express I/O connectivity options.

The Sun Fire X4100 server is qualified to work with Sun’s comprehensive portfolio of software, storage, and network switches. A variety of service offerings are also available to help meet the needs of enterprise customers. The Sun™ Customer Ready Systems (CRS) program offers integration and testing services; Customers can order racks of preconfigured servers with storage, switches, and software. Sun’s partners can also provide industry-specific expertise and deployment services.

Sun is at the forefront of x64 (x86-64-bit) computing. The Sun Fire™ X4100 server family includes the fast, reliable Sun Fire X4100 and X4100 M2 servers—energy-efficient one-to four-way x64 servers that run the Solaris OS, Linux, and Windows operating systems.
Sun Fire X4100 Server

Up to two single-core/dual-core AMD Opteron 200 Series processors, one MB Level 2 cache per core.

Four DIMMs slots per CPU socket, DDR2/667 ECC registered DIMMs (128-bit plus ECC database), total eight DIMMs slots, up to 16 GB per processor.

Three 8.0 GB/sec. HyperTransport link with 6.0 GB/sec. access between processor and memory.

Four 10/100/1000Base-T Ethernet ports.

One dedicated 10/100Base-T Ethernet port.

One TIA/EIA-232-F asynchronous RJ45 Port.

Four-channel SAS interface, internal access only.

One USB 2.1 port (front), two USB 2.1 ports (rear).

Two internal MD2 low-profile 64-bit PCI-X slots (one at 100 MHz, one at 133 MHz).

Software

Operating systems

- Solaris® 10 Operating System, 64-bit
- Red Hat Enterprise Linux 3, 32-bit/64-bit
- Red Hat Enterprise Linux 4, 64-bit
- SUSE LINUX Enterprise Server 9, 64-bit
- VMware ESXi 2.5.x/5.0.x
- Java Enterprise Services 3
- Solaris 10 Operating System
- Standard Linux distributions
- C/C++, FORTRAN (Solaris OS on x64)
- Java® programming language
- All other standard Sun-supported languages

Languages

ONC®, ONC+®, NFS, WebNFS®, TCF/IP, SunLink®, OSI, MHS, IPX™/SPX, SMB technologies, and XML

Networking

ILOM Service Processor providing: DMTF CLP-based CLI over SSH, Web-based GUI over HTTPS/HTTP, IPMI 2.0, SNMP v1, v2c and v3, remote graphical access over Ethernet and remote storage over Ethernet

- N1 System Manager—discovering, grouping, bare metal provisioning, hardware monitoring, OS monitoring
- Hot-swappable, 2.5-inch SAS internal disks, RAID 0, 1 onboard, up to two HDDs with DVD-ROM/CD-ROM, up to four HDDs without DVD-ROM/CD-ROM

Mass storage and media

Environment

- AC power: 90–264 V AC (-47–63 Hz)
- DC power: -48 V DC or -60 V DC (10.4 A at -48 V DC, 8.3 A at -60 V DC), -48 V DC or -60 V DC (10.4 A at -48 V DC, 8.3 A at -60 V DC)
- 5° C to 35° C (41° F to 95° F)
- Up to 93 percent relative humidity
- Noncondensing, 27°C max. wet bulb

- LwAd (1B = 10dB): 7.8 B at or below 25° C, 8.3 B at max. ambient
- LpAm bystander: 63 dB at or below 25° C, 67 dB at max. ambient
- Dual redundant, hot-swappable power supplies
- Maximum DC output: 550 W

Meets or exceeds the following requirements
IEC60950, UL/CSA60950, EN60950, CB scheme with all country differences

FCC Class A, Part 15 47 CFR, CISPR 22, EN300-386: v1.31, IEC5-203

EN50524, EN300-386:V1.2.3

N1 System Manager—discovering, grouping, bare metal provisioning, hardware monitoring, OS monitoring

Hot-swappable, 2.5-inch SAS internal disks, RAID 0, 1 onboard, up to two HDDs with DVD-ROM/CD-ROM, up to four HDDs without DVD-ROM/CD-ROM

Power

- 90–264 V AC (47–63 Hz)
- -48 V DC or -60 V DC (10.4 A at -48 V DC, 8.3 A at -60 V DC), -48 V DC or -60 V DC (10.4 A at -48 V DC, 8.3 A at -60 V DC)

- 5° C to 35° C (41° F to 95° F)
- Up to 93 percent relative humidity
- Noncondensing, 27°C max. wet bulb
- 40°C to 65°C (-40°F to 149°F)
- Up to 93 percent relative humidity
- Noncondensing, 38°C max. wet bulb

Up to 3,088m, maximum ambient temperature is derated by 1°C per 300m above 300m

Up to 12,000m

- LwAd (1B = 10dB): 7.8 B at or below 25° C, 8.3 B at max. ambient
- LpAm bystander: 63 dB at or below 25° C, 67 dB at max. ambient
- Dual redundant, hot-swappable power supplies
- Maximum DC output: 550 W

Meets or exceeds the following requirements
IEC60950, UL/CSA60950, EN60950, CB scheme with all country differences

FCC Class A, Part 15 47 CFR, CISPR 22, EN300-386: v1.31, IEC5-203

EN50524, EN300-386:V1.2.3

Sun Fire X4100 M2 Server

Up to two Next-Generation AMD Opteron 2000 Series processors, one MB Level 2 cache per core.

Four DIMMs slots per CPU socket, DDR2/667 ECC registered DIMMs (128-bit plus ECC database), total eight DIMMs slots, up to 16 GB per processor.

Three 8.0 GB/sec. HyperTransport links per processor and memory.

Four 10/100/1000Base-T Ethernet ports.

One dedicated 10/100Base-T Ethernet port.

One TIA/EIA-232-F asynchronous RJ45 Port.

Four-channel SAS interface, internal access only.

One USB 2.0 port (front), two USB 2.0 ports (rear).

Two internal low-profile eight-lane PCIe slots.

Software

Java Enterprise Services 4

Solaris 10 Operating System

Standard Linux distributions

C/C++, FORTRAN (Solaris OS on x64)

Java® programming language

All other standard Sun-supported languages

ONC®, ONC+®, NFS, WebNFS®, TCF/IP, SunLink®, OSI, MHS, IPX™/SPX, SMB technologies, and XML

ILOM Service Processor providing: DMTF CLP-based CLI over SSH, Web-based GUI over HTTPS/HTTP, IPMI 2.0, SNMP v1, v2c and v3, remote graphical access over Ethernet and remote storage over Ethernet

- N1 System Manager—discovering, grouping, bare metal provisioning, hardware monitoring, OS monitoring
- Hot-swappable, 2.5-inch SAS internal disks, RAID 0, 1 onboard, up to two HDDs with DVD-ROM/CD-ROM, up to four HDDs without DVD-ROM/CD-ROM

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