SUN FIRE X4470 SERVER

The Sun Fire X4470 server is the best mission critical virtualization platform for consolidating web application servers and collaboration tools, virtualizing enterprise performance management applications, as well as batch processing. It is the industry's leading compact and expandable enterprise class 4-socket x86 server, delivering best in class performance, expandability, density and power efficiency in a 3 rack unit (RU) form factor.

FEATURES

- Compact 3RU enterprise class server
- Powered by up to four powerful Intel Xeon Processor 7500 Series
- Up to 64 DIMMs with a maximum memory of 512 GB
- Up to six 2.5" disk drive bays for HDDs or SSDs
- Up to four Oracle Sun Flash Accelerator F20 PCIe cards
- Hot swappable disks, cooling fans and power supply units
- Supports a wide range of enterprise class server operating systems

BENEFITS CUSTOMER

- Minimize real estate costs with the leading compact system design
- Boost application performance and reduce power consumption with Sun FlashFire technology
- Consistent System manageability with Oracle ILOM included in every system

The Sun Fire X4470 server is the best server for mission critical virtualization

Product Overview

The Sun Fire X4470 server powered by up to four Intel Xeon Processor 7500 Series and with up to 512 GB of memory and over 1.8 TB of internal storage is the best platform for enterprise consolidation and virtualization for business applications. Compared to the previous generation server, it has double the memory capacity, more than quadruple the I/O subsystem bandwidth, and two-thirds more I/O expandability, making this the densest and fastest performing server in its class.

Enhancements to the previous generation server, the Sun Fire X4470 offers two flash integration options for application and database acceleration – Sun Flash Acceleration F20 PCIe cards and Solid State Drives (SSDs). These flash options deliver I/O performance of up to 400 Hard Disk Drives (HDDs) turbo charging application performance while eliminating bottlenecks and reducing power consumption. Also new, the Sun Fire X4470 Server has double the memory capacity that more than triples virtualization capabilities. I/O bandwidth is quadrupled with SAS-2 and PCIe 2.0 technologies, and PCIe I/O slots are increased by two thirds making this server the densest and fastest performing in its class.

System management is simplified with Oracle Integrated Lights Out Manager (ILOM) that comes standard in every Sun Fire X4470 server. ILOM centralizes system management locally or remotely to ease system configuration, software provisioning and updates providing a consistent interface across the entire x86 product line.

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Sun Fire X4470 Server Specifications

Architecture
Processor
• Two or four Intel Xeon Processor 7500 Series
Main Memory
• Up to 64 DIMMs (16 DIMMs per processor)
• 2GB, 4GB and 8GB DDR3-1066 MHz ECC Registered DIMMs
• 2 Memory Risers Cards required per processor
• Maximum memory capacity of 512 GB
Interfaces
Standard IO
• Four 10/100/1000Base-T on board Ethernet ports
• One dedicated 10/100Base-T Ethernet management port
• One TIA/EIA-232-F asynchronous RJ45 serial port
• Five USB 2.0 ports (two front, two rear, one internal)
• Ten PCI Express slots (two (2) x16-lane slots; Four (4) x8-lane slots; two (2) x4-lane slots or eight (8) x8-lane slots; Two (2) x4-lane slots
• Two VGA 8MB Ports – 1024 x 768 @ 60Hz (front and rear)
• Front accessible DVD+/-RW Drive
Internal Storage
• Six 2.5" SAS-2/SATA-2 front accessible hot swappable disk bays
• All bays can be populated with SAS-2 HDDs or SATA-2 SSDs
• Optional RAID levels : 0, 1, 1E, 10, 5, 5EE, 6 with optional Battery Backed Write Cache (BBWC) via optional HBA PCIe card
• Optional Sun Flash Accelerator F20 PCIe Card
Graphics
• VGA 2D graphics controller embedded Supports resolutions up to 1600x1200x16bits@60Hz (1024x678 when viewed remotely via ILOM RKVMS)
• Rear and Front HD15 VGA port
Remote Management
• Oracle Integrated Lights Out Manager (ILOM)
• One dedicated 10/100base-T Ethernet management port
• In-Band, Out-of-Band and Sideband network management access via any one of the 4 main Ethernet ports of the server
• One RJ-45 serial management port
• Features and facilities
• DTMF-style Command-Line Interface
• Support for access via SSH 2.0, HTTPS, RADIUS, LDAP and Microsoft Active Directory
• Browser-based GUI for control of the system through a graphical interface
• IPMI 2.0, SNMP v1, v2c and v3
• Remote management with full keyboard, video , mouse, storage (KVMS)

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redirection and remote media capability (Floppy, DVD, CD and more)

- Monitor and report system and component status on all FRUs

Software

Operating Systems

- Oracle Solaris
- Oracle Linux
- Red Hat Enterprise Linux
- SuSE Linux Enterprise Server
- Microsoft Windows Server

For more information on software go to:
http://wikis.sun.com/display/SystemsComm/Sun+Fire+X4470+Server

Virtualization

- Oracle VM
- VMware

Environment

- Operating temperature: 5°C to 35°C (41°F to 95°F) at sea level; 5°C to 31°C (41°F to 88°F) at altitude
- Nonoperating temperature: -40°C to 68°C (-40°F to 154°F)
- Operating relative humidity: 10%-90% relative humidity, noncondensing
- Nonoperating relative humidity: 93% relative humidity, noncondensing,
- Acoustic Noise: LwAd: 8.9 B (idle and operating, room temp.), 8.9 B (max. ambient); LpAm: 75 dBA (bystander position, max. ambient)

Power

- AC power: 100-127 VAC (for two CPUs) or 200-240 VAC (2 or 4 CPUs)

Regulations

- Safety: IEC 60950, UL/CSA 60950, EN60950, CB Scheme with all country differences
- RFI/EMI: FCC CFR 47 Part 15 Class A, EN 55022 Class 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: 129.85 mm (5.1 in.)
- Width: 436.5 mm (17.2 in.)
- Depth: 732 mm (28.8 in.)
- Weight: 38.5 kg (85 lb.) max.

Mounting Option

- Toolless rackmounting slide rail kit
- Cable management arm

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RELATED PRODUCTS

- Sun Fire X4270 M2 server
- Sun Fire X4800 server
- Sun Blade X6270 M2 server module

RELATED SERVICES

The following services are available from Oracle Support Services:

- Support, installation
- Eco-optimization services

Warranty

The Sun Fire X4470 server comes with a one year warranty. For more information visit oracle.com/sun/warranty for Oracle's global warranty support

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 X4470 server, please visit oracle.com/sun or call +1.800.786.0404 to speak to an Oracle representative.

Oracle is committed to developing practices and products that help protect the environment

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