SUN FIRE X4270 M2 SERVER

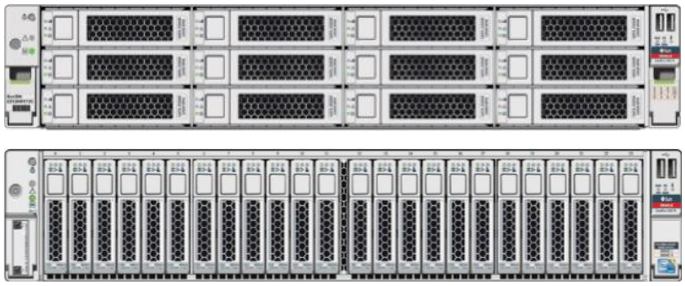
Oracle's Sun Fire X4270 M2 server offers superior scalability that packs in maximum performance, large memory, robust I/O bandwidth, and unique I/O storage capabilities in a compact 2 rack unit (RU) system. Offering ultimate flexibility with two storage configurations and two flash storage options that enable higher data capacity and I/O intensive application acceleration, this is the best server in its class for clustered databases and virtualized workloads.

FEATURES

- 2 RU enterprise class server
- Powered by the highest performing Intel Xeon Processor 5600 Series
- Eighteen DIMM slots for maximum memory of 144 GB
- Twelve 3.5" disk drive bays for HDDs or SSDs
- Twenty-four 2.5" disk drive bays for HDDs or SSDs
- More than one TB of flash storage capacity
- Hot swappable disks, cooling fans and power supply units
- Supports a wide range of enterprise class server operating systems

BENEFITS

- Optimized cluster database node with maximum compute and I/O performance and abundant internal storage capacity
- Save on power with energy efficient components
- Boost application performance and reduce power consumption with Sun FlashFire technology
- Consistent System manageability with Oracle ILOM included in every system



The Sun Fire X4270 M2 server features ultimate flexibility

Product Overview

The Sun Fire X4270 M2 server, powered by up to two of the highest performing Intel Xeon Processor 5600 Series, is the ideal system for clustered databases and virtualized workloads. This server is available in two flexible chassis configurations and offers superior scalability with up to twenty-four TBs of storage for the most demanding cluster environments.

System performance and power efficiency are maximized with two flash storage options that offer more flash capacity than any other product on the market. These options include Oracle Sun Flash Accelerator F20 PCIe cards, and Solid State Drives (SSD). They deliver I/O performance equivalent to four hundred hard disk drives while reducing energy consumption by as much as eighty percent. The Sun Fire X4270 M2 server also has better power management with high efficiency power supplies and power capping capabilities.

System management is simplified with Oracle Integrated Lights Out Manager (ILOM) that comes standard in every Sun Fire X4270 M2 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.

Sun Fire X4270 M2 Server Specifications

Architecture

Processor

- One or two Intel Xeon Processor 5600 Series

Cache

- Level 1: 32 KB instruction and 32KB data
- Level 2: 256 KB unified
- Level 3: 12 MB shared inclusive

Main Memory

- Eighteen DDR3 DIMM slots (nine DIMM slots per CPU socket)
- 4 GB and 8 GB DIMMs for a maximum of 144 GB per system

Interfaces

Standard I/O

- Four 10/100/1000 Base-T Ethernet ports
- USB: Five 2.0 USB ports (two front, two rear, one internal)
- Expansion bus: Six PCIe 2.0 slots - all are x8-lane electrical/mechanical

Storage

- Twelve Disk Chassis, twelve 3.5” SAS-2/SATA-2 front accessible hot swappable disk bays
- Twenty-four Disk Chassis, twenty-four 2.5” SAS-2/SATA-2 front accessible disk bays
- All bays can be populated with either HDDs or SSDs
- Optional RAID levels: 0, 1, 1E, 5, 5EE, 6, 10 with optional Battery Backup 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 1600x1200x16 bits @60 Hz (1024x768 when viewed remotely via ILOM RKVMS)
- Rear HD15 VGA port

Remote Management

Oracle Integrated Lights Out Manager (ILOM)

- One dedicated 10/100 Base-T Ethernet network management port
- In-Band, Out-of-band and Sideband Network Management access via any one of the four main ports of the server or the dedicated port
- One RJ-45 serial management port

Features and Facilities

- DMTF-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) redirection and remote media capability (floppy, DVD, CD, and more)
- Monitor and report system and component status on all FRUs

Software

Operating Systems

- Oracle Linux
- Oracle Solaris (Pre-Installed)
- 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+X4270+M2+Server

Virtualization

- Oracle VM (Pre-Installed)
- VMware

Environment

- Operating temperature: 5º C to 35º C (41º F to 95º F)
- Non-operating temperature: -40º C to 70º C (-40º F to 158º F)
- Operating relative humidity10% to 90%, non-condensing
- Non-operating relative humidity: up to 93%, non-condensing
- Operating altitude: Up to 3,000 m, maximum ambient temperature is derated by 1° C per 300 m above 900 m
- Non-operating altitude: Up to 12,000 m
- Acoustic noise: 7.6 B operating, 7.6 B idling; 63.1 dBA operating, 60.5 dBA idling

Power

- Dual-redundant, hot-swappable power supply
- Maximum output power: 1200 W
- Maximum AC input current at 100 V AC and 1200 W output: 13.0 A
- Specified power supply efficiency at 1200 W (100%) load: 90%

Regulations

- Safety: UL 60950-1 2nd Ed, EN60950-1:2006 2nd Ed, CB Scheme with all country differences
- RFI/EMI: FCC CFR 47 Part 15 Subpart B Class A, EN 55022:2006+A1:2007 Class A, EN 61000-3-2:2006, EN 61000-3-3:1995+A1:2001+A2:2002, ETSI EN 300 386 V1.4.1 (2008)
- Immunity: EN 55024:1998+A1:2001:+A2:2003

Certifications

- Safety: UL/cUL, CE, BSMI, GOST R, S-Mark, CSA C22.2 No. 60950-1-07 2nd Ed.
- EMC: CE, FCC, VCCI, ICES, C-Tick, KCC, GOST R, BSMI Class A
- Other: Complies with WEEE Directive (2002/96/EC) and RoHS Directive (2002/95/EC)

Dimensions and Weight

- Height: 87.12 mm (3.43 in.)
- Width: 425.45 mm (16.75 in.)
- Depth: 762.0 mm (30.0 in.)
- Weight**:** 29.54 kg (65 lbs)

Mounting Option

- Rack mounting slide rail kit
- Cable management arm

RELATED PRODUCTS AND SERVICES

The Sun Fire X4270 M2 server is the ideal system to deploy clustered databases and virtualized workloads. Highly scalable with up to 24 TB of disk storage, double the I/O bandwidth and with Sun FlashFire technology, this system offers sufficient flexibility to support future data growth.

RELATED PRODUCTS

- Sun Fire X4170 M2 server
- Sun Fire X4470 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 X4270 M2 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 X4270 M2 server, please visit oracle.com 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