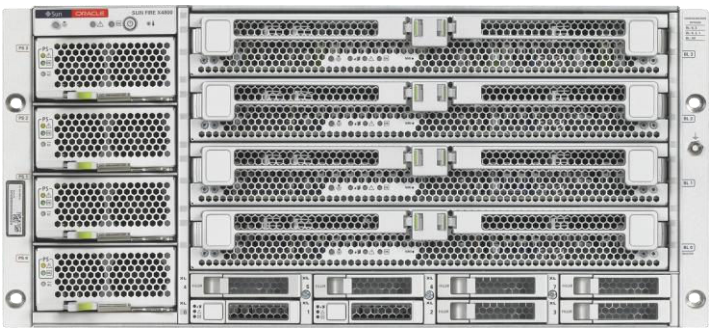
SUN FIRE X4800 SERVER

Oracle's Sun Fire X4800 server is revolutionizing the x86 market by setting new standards with leading performance, outstanding scalability and unmatched RAS features. It is the most powerful and expandable system in Oracle's x86 server line that makes this the ideal platform for in-memory databases, applications with large memory footprints and enterprise technical computing workloads. It is also the ideal server to refresh inefficient and outdated HP Itanium and IBM Power servers.



The Sun Fire X4800 server is Oracle's most powerful and expandable x86 system

FEATURES

- Compact design, 5RU enterprise class server
- Powered by up to four or eight powerful Intel Xeon Processor 7500 Series
- Up to 1 TB of memory (128 DIMMs)
- Up to eight 2.5" drive bays
- Hot swappable I/O, disks, cooling fans and power supply units
- Supports a wide range of enterprise class server operating systems

BENEFITS

- Leadership performance at a fraction of the cost of HP Itanium and IBM Power servers
- Leading reliability with unmatched x86 RAS features
- Double the connectivity of current 8-socket systems with Network Express Modules (NEMs)
- Consistent System manageability with Oracle ILOM included in every system

Product Overview

The Sun Fire X4800 server is a compact, modular 5RU (rack unit) system redefining the enterprise x86 market with superior performance, outstanding I/O expandability, and unmatched RAS features. Powered by up to eight Intel Xeon Processor 7500 Series CPUs and with up to 1 TB of memory, this server excels in data warehousing applications such as Oracle's Times Ten. In addition, the Sun Fire X4800 server features two Network Express Modules, providing customers with eight GbE ports for ultimate connectivity.

New to the x86 market and included in the Sun Fire X4800 server are hot swappable RAS capabilities that offer a reliable solution to run your mission critical applications. These include hot swappable components such as PCIe ExpressModules, front accessible disk drives with RAID enabled redundancy, and redundant fans and power supplies. All contribute to increased uptime and ease of serviceability in the case of hardware failure.

The compact, scalable design of the Sun Fire X4800 server saves customers time and money. It provides flexibility for datacenter growth while minimizing the costs associated with datacenter refresh. In addition to its large memory footprint and leading reliability, the Sun Fire X4800 server has demonstrated unmatched price performance making this the ideal replacement server for inefficient legacy HP

Itanium and IBM Power systems.

Sun Fire X4800 Server Specifications

CPU Modules
CPU Module - Processors
• Two or Four CMODs are supported, providing four or eight CPU configurations • Each CMOD contains two Intel Xeon Processor 7500 Series
CPU Module - Memory
• Up to 128 DIMMs (32 per CMOD) • 2GB, 4GB and 8GB DDR3-1066 MHz ECC Registered DIMMs • Maximum memory capacity of 1TB
Interfaces
Network Express Module
Two hot-swappable Network Express Modules (NEM), each NEM provides • Four 10GbE network ports via SFP+ connectors • Four 1GbE network ports via RJ-45 connector • Two x4 mini SAS-2 ports
Standard I/O – via rear front panel Universal Connector Port (UCP)
• VGA: one VGA 1024x768x16bit@60Hz graphics controller port • USB: Two USB ports • Serial: One Serial RJ-45 port
Internal Storage
• Eight 2.5” SAS-2 Front accessible hot swappable disk bays • All bays accommodate SAS-2 HDDs
I/O Expansion
• Up to eight hot-swappable PCIe 2.0 ExpressModule (EM) slots at the rear of the system • Each EM has a x8 electrical/x8mechanical PCIe2.0 bus
Remote Management
Oracle Integrated Lights Out Manager (ILOM) via hot-swappable Service Processor Module • One dedicated 10/100Base-T management Ethernet Port • One RJ-45 management serial port • Remote power control • Remote Keyboard, Video, Mouse and virtual Storage (RKVMS) • Secure remote access via Web-GUI interface over SSL • DMTF-style Command Line Interface over Serial or SSH 2.0 • Authentication via Local, RADIUS, LDAP, or Active Directory • IPMI 2.0, SNMP v1, v2c, and v3

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+X4800+Server

Virtualization

- Oracle VM
- VMware

Environment

- Operating temperature: 5°C to 35°C (4°F to 95°F)
- Nonoperating temperature: -40 ºC to 70 ºC (-40 ºF to 158 ºF)
- Operating relative humidity: 10%–90%, noncondensing
- Nonoperating relative humidity: up to 93% relative humidity, non-condensing
- Operating altitude: Up to 3,048m, max. ambient temperature is derated by 1° C per 300m above 900m
- Nonoperating altitude: Up to 12,000m
- Acoustic noise: 7.7 B operating, 6.8 B idling — (LwAd: 1 B=10 dB)

Power

- AC power: 200-240VAC (47 Hz–63 Hz)
- Four Redundant, Hot-Swappable front accessible Power supplies

Regulations

- Safety: IEC 60950-1, UL/CSA 60950-1, EN 60950, CB Scheme with all country differences
- EMC: FCC CFR 47 Part 15 Class A, EN 55022:2006 Class A, EN 61000-3-2:2000+A2:2005, EN 61000-3-3:1995 +A1:2001, EN55024:1998 +A1:2001 +A2:2003, EN300-386

Certifications

- Country certifications safety/EMC: UL/cUL, CE, S-Mark, CSA C22.2 No. 60950-03 EN 60950-01:2001, 1st Edition, IEC 60950-01:2001, 1st Edition, FCC, VCCI, ICES-003, C-Tick, KCC, GOST-R, BSMI Class A
- Other : Complies with WEEE Directive (2002/96/EC)

Dimensions and Weight

- Height: 218.75 mm (8.61 in.)
- Width: 445 mm (17.5 in.)
- Depth: 700 mm (27.56 in.)
- Weight: 81.65 kg (180 lbs)

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RELATED PRODUCTS AND SERVICES

The Sun Fire X4800 server offers leading reliability with unmatched x86 RAS features making it the most powerful of Oracle's x86 servers. This system also has proven leadership performance at a fraction of the cost of HP Itanium and IBM Power servers.

RELATED PRODUCTS

- 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 X4800 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 X4800 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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