Sun Netra X4270 server
Frequently Asked Questions
August 10, 2010

Overview

Broadband and wireless data networks have experienced rapid growth due to the expanding number of services and user population, as a result, demand for telecommunications infrastructure equipment continues to grow. To help telecommunications companies address the challenges of increasing capacity, Oracle has developed the Sun Netra X4270, an Intel-based carrier-grade system designed for network infrastructure applications such as Services over Telco IP Networks. When compared with the previous generation server, Sun Netra X4270 doubles the performance and lowers the power consumption requirements while maintaining the same footprint. This reliable, scalable and easy to maintain server is designed to meet today's escalating requirements of the telco networks for more compute power, memory and I/O bandwidth.

Customer Benefits

High Performance and Low Power

The Sun Netra X4270 server supports two Intel Xeon Processor 5500 Series and delivers double the performance than the previous generation while reducing overall power and cooling demands[1]. This processor also doubles the number of computer threads to run the most demanding applications. The Sun Netra X4270 has twice the storage subsystem and I/O bandwidth. In addition, the server offers a boost in the memory capacity supporting the most memory intensive applications.

Expandability and Flexibility for the Network

The Sun Netra X4270 server includes the Oracle Integrated Lights Out Manager (ILOM), which provides a consistent management interface across Oracle's entire Netra rackmount product line. ILOM helps to simplify network management, system configuration and life cycle management, as well as software provisioning and updates done locally or remotely. This is a powerful and fully featured Service Processor that also has power management and power capping capabilities to help reduce energy cost.

In conjunction with the Oracle ILOM, the Oracle Enterprise Manager Ops Center is a highly scalable management system that provides life cycle management and process automation capabilities to help simplify consolidated platform management, compliance reporting and system provisioning tasks for the network.

For further network expandability, the Sun Netra X4270 offers double the memory to support memory intensive applications and double the I/O bandwidth with PCIe Gen 2.

Carrier-Grade Reliability

The ruggedized NEBS Level 3 certified, Sun Netra X4270 provides a high level of system reliability which helps ensure that the server continues to operate under the extreme of environmental conditions. Redundant hot-swappable AC or DC power supplies and hot-pluggable hard disk drives further enhance the system's uptime.

Investment Protection

The Sun Netra X4270 supports a range of Operating Systems allowing standardization on one platform for all major operating systems in the network infrastructure. In addition, the server also supports full-height and full-length PCIe cards allowing the use of legacy telecommunications cards.

[1] Based on SPECint_rate2006 benchmark. Oracle's Sun Netra X4270 (Intel Xeon L5518 2.13GHz,2chips/8cores) 201 SPECint_rate2006. Sun Netra X4250 (Intel Xeon L5408 2.13GHz,2chips/8cores) 103 SPECint_rate2006. SPEC, SPECint are registered trademarks of Standard Performance Evaluation Corporation. Results from this report and www.spec.org as of 05/11/2010. The Sun Netra X4270 consumes less power compared to the previous generation, Sun Netra X4250, Based on internal engineering measurements. The Netra X4270 server has 12% less power at average workload, 28% lower power at idle compared to the Netra X4250.

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What is the Sun Netra X4270 server?

The Sun Netra X4270 server is a two-socket 2 rack unit (RU) carrier-grade x86 rackmount server based on the Intel Xeon Processor 5500 Series.

How does the new Sun Netra X4270 server compare with the Sun Netra X4250 server?

The new Netra X4270 server delivers up to double the performance, double the number of compute threads (16 Hyper-Threads), more than double the memory to 144 GB of memory, double I/O bandwidth with PCIe Gen 2, and double the storage subsystem with SAS-2 interface.

What kind of applications is the Sun Netra X4270 server best suited to run?

The Sun Netra X4270 is best suited for Network Infrastructure application such Services over Telco IP Networks.

What are the memory, storage and expansion options supported on the Sun Netra X4270 server?

The Sun Netra X4270 server supports up to eighteen DDR3 memory DIMMs slots (which can be populated with 4GB and 8GB DIMMs), up to four 2.5-inch SAS hard drives, and six PCI-Express slots. – two of which are full-length and full-height all in a 20-inch compact form factor.

More information can be found at:

http://www.oracle.com/us/products/servers-storage/servers/netra-carrier-grade/index.html

What are the operating systems that have been certified to run on the Sun Netra X4270 server?

The Sun Netra X4270 server is certified to run Oracle Solaris, Oracle Enterprise Linux, Oracle VM, Red Hat Enterprise Linux, SuSE Enterprise Linux, VMware and Windows.

What software is pre-installed on the Sun Netra X4270 server?

The customer has the option to request for Oracle Solaris operating system to be pre-installed on the server in the factory.

What are the system management options available for the Sun Netra X4270 server?

The Sun Netra X4270 server includes the Oracle Integrated Lights Out Manager (ILOM), which provides a consistent management interface across Oracle's entire Netra rackmount product line

The Oracle Enterprise Manager Ops Center is the newest addition to the Oracle Enterprise Manager product family. More information can be found at:

http://www.oracle.com/us/products/enterprise-manager/opscenter/index.html

Is there a choice in system configurations?

Yes, the Sun Netra X4270 can be fully customized to the configuration specified by the customer through our factory's ATO (Assemble to Order) process.

What high availability features are available in the Sun Netra X4270 server?

The Sun Netra X4270 is designed with ruggedized packaging, which increases reliability and availability and minimizes downtime due to environmental conditions It offers hot swappable and redundant RAID-enabled disks and power supply units. Combining these capabilities with Oracle ILOM,

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the Sun Netra X4270 server is designed to maximize uptime and simplify system management.

Where can I find more information about the Sun Netra X4270?

You can contact your Oracle sales representative directly or call 1-800-Oracle1. For more information about the Sun Netra X4270 server on the web, go to:

http://www.oracle.com/us/products/servers-storage/servers/netra-carrier-grade/index.html

What are the power requirements for the Sun Netra X4270 Server?

The online power calculator provides an estimate on the idle and operating power level of the server. The power calculator can be found at http://www.oracle.com/us/products/servers-storage/sun-power-calculators/index.html

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