

Sun Netra CP3270 ATCA blade server

Frequently Asked Questions

August 10, 2010

Overview

Wireless data networks have experienced rapid growth due to the expanding number of services and smartphone proliferation, 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 CP3270 ATCA blade server, an Intel-based carrier-grade system designed for network infrastructure applications such as IP Media Services (IMS). This highest performing x86 ATCA blade can be mixed in the Sun Netra CT900 blade server with other UltraSPARC and x86 blades.

When compared with the previous generation server, Sun Netra CP3250, the Sun Netra CP3270 doubles the compute threads and scales up the performance while maintaining the power consumption requirements and the same thermal footprint. This reliable and scalable blade server is designed to meet today's escalating requirements of the telco networks for more compute power and memory, while maintaining backwards compatibility.

Customer Benefits

High Performance and Low Power

The Sun Netra CP3270 server supports two Intel Xeon Processor LC5500 Series and delivers increased performance as compared with the previous generation blade while maintaining overall power and cooling demands. This processor also doubles the number of computer threads to run the most demanding applications. A new memory architecture with Intel's integrated memory controller and Quick Path Interconnect offers support for the most memory intensive applications.

Performance for the Network Upgrade

The Sun Netra CP3270 is designed specifically with upgrading in mind. By maintaining the power and thermal footprint

established by the Netra CP3250 ATCA blade server, the Netra CP3270 can be used to upgrade any solution that uses the Netra CP3250 or its competitor equivalents, thus extending the life of many existing applications.

Beyond power and thermal compatibility, IO functionality is also preserved with the Sun Netra CP3270 ATCA blade, thereby increasing the scope of applications that this blade can support. The ability to add an AMC and an AdvanceRTM gives the Netra CP3270 unmatched IO flexibility in the Intel Xeon 5500 and 5600 series ATCA blades.

With the better efficiency and performance, IO flexibility and backwards compatibility, Oracle has engineered the Sun Netra CP3270 ATCA blade to provide the performance necessary for today's processor intensive applications, while extending the life of the installed ATCA core infrastructure and applications.

Carrier-Grade Reliability

The ruggedized NEBS Level 3 certified, Sun Netra ATCA platform provides a high level of system reliability which helps ensure the server continues to operate under extreme environmental conditions. Taking advantage of the additional testing required by the NEBS Level 3 certification, many military applications have decided to utilize the Sun Netra ATCA platform in ships and mobile carriers.

Investment Protection

The Sun Netra CP3270 blade server supports a range of Operating Systems allowing standardization on one platform for all major operating systems in the network infrastructure. In addition, the Sun Netra CP3270 is pin compatible with the Netra CP3250, CP3260 and CP3220 blades, allowing the previously purchased AdvanceRTM and AMC to be reused if appropriate.

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What is the Sun Netra CP3270 blade server?

The Sun Netra CP3270 blade server is a two-socket single slot carrier-grade x86 ATCA blade server based on the Intel Xeon Processor LC5500 Series processor.

How does the new Sun Netra CP3270 server compare with the Sun Netra CP3250 server?

The new Netra CP3270 server delivers increased performance, double the number of compute threads (16 Hyper-Threads), and more memory with 32GB.

What kind of applications is the Sun Netra CP3270 server best suited to run?

The Sun Netra CP3270 is best suited for Network Infrastructure applications such as IMS or Service Gateways.

What are the memory, storage and expansion options supported on the Sun Netra CP3270 blade server?

The Sun Netra CP3270 blade supports up to eight DDR3 memory DIMMs slots (which can be populated with 4GB DIMMs), an AMC slot, a CF II slot, and an AdvanceRTM slot.

More information about this product and about all the Netra Carrier-Grade systems can be found at:

<http://www.oracle.com/goto/netra>

What are the operating systems that have been certified to run on the Sun Netra CP3270 blade server?

The Sun Netra CP3270 server is certified to run Oracle Solaris, OEL, OVM, Enterprise Linux or Windows.

What software is pre-installed on the Sun Netra CP3270 blade server?

There is no operating system that's pre-installed in a blade only order. In a Sun Netra CT900 order with the Netra CP3270 ATCA blade servers, the Solaris operating environment will be installed.

What are the system management options available for the Sun Netra CP3270 blade server?

The Sun Netra CP3270 blade server comes with a PICMG 3.0 R2 compliant manager. It is based on IPMI 1.5 and is part of the PICMG 3.0 standards requirement. Additional management software is available when the Netra CP3270 is ordered or installed in a Sun Netra CT900.

Is there a choice in system configurations?

Yes, at the time of the release the Sun Netra CP3270 is available in two configurations: 16GB and 32GB. Both configurations have the processor sockets fully populated.

What high availability features are available in the Sun Netra CP3270 server?

The Sun Netra CP3270 is designed for five to six 9s solutions. Therefore, the blades come with a host of redundant features: base fabric, extended fabric, IMPI, and power inputs. With these redundant features built in, no single network, power or service management fault will be able to shut down the blade.

Where can I find more information about the Sun Netra CP3270?

You can contact your Oracle sales representative directly or call 1-800-Oracle1. For more information about the Sun Netra CP3270 server on the web, go to the main Netra systems site on Oracle.com: <http://www.oracle.com/goto/netra>. For more on the Netra ATCA blade server, please go to <http://www.oracle.com/goto/atca>.

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