

Sun Netra™ CP3250 ATCA Blade Server

Intel Xeon Processor-powered ATCA blade for application servers



Highlights

- LGA771 Intel® Xeon® processor L5408 LV (four cores, two sockets) high-performance x64 architecture for application servers
- Choice of the Solaris™ 10 OS x64, Linux, or Microsoft Windows 2003 Server
- Mix and match up to 12 blade servers running various processors and operating systems in the same Sun Netra CT900 ATCA blade server chassis
- Extreme compute density per shelf and rack
- 10 GbE fabric reduces TCO and speeds time to market
- Support for Sun's standards-based Advanced Rear Transition Modules (AdvancedRTMs) family for increased HDD density, storage connectivity, and networking
- Integrated software with manageability and high availability (HA) functionality
- Long-term reduction of TCO, enabling lower cost per subscriber
- Industry-standard AdvancedTCA and SAF compliance

The Sun Netra™ CP3250 ATCA blade server — a high-performance, next-generation, x64 telecom blade from Sun — provides your applications with leading-edge x64 performance, including Sun's innovative 10 GbE networking technology. Offering a performance-centric design and flexibility, this server enables you to use Advanced Mezzanine Cards (AdvancedMC), improve memory density, deploy on 10 GbE, and leverage Sun's next-generation AdvancedRTMs. Compliant with PICMG 3.0 R2 and PICMG 3.1 Options 1 and 9, the dual-socket, quad-core Sun Netra CP3250 ATCA blade server is Sun's highest-performing x64 ATCA blade to date.

The Sun Netra CP3250 ATCA blade server brings extreme performance, availability, and innovation to the central office and telecom datacenter. Advanced features include six sockets for 24 GB of high-density memory, 10 GbE, and the latest embedded Intel Xeon L5408 LV processor, utilizing the 45nm manufacturing process. The Sun Netra CP3250 ATCA blade server also includes an AdvancedMC and AdvancedRTM for I/O expandability and a CF-2 slot supporting Flash memory for booting and loading of applications.

The blade can be plugged into any of the user node slots of the Sun Netra CT900 ATCA blade server, or any ATCA/PICMG 3.0- and 3.1-compliant chassis. It supports the basic PICMG 3.0 system management features, functioning with the same compatibility and availability as other ATCA-compliant blades.

The Sun Netra CP3250 ATCA blade server is also compatible with the Sun Netra CP3200 series AdvancedRTMs, which support the creation of high-density systems by facilitating easy access to I/O. The rear I/O access enables you to replace the Sun Netra ATCA node boards without disconnecting cables.



Sun Netra CP3250 ATCA Blade Server Specifications

Industry-standard connectors and pin assignments ensure ease of use and flexible design. Sun Netra CP3200 AdvancedRTMs support AMC-specified management, AMC-specified hot swapping, and AMC-specified port/lane mapping that includes industry-standard connector and lane-mapping specifications.

Processor options

LGA771 supporting the Intel Xeon processor L5408 LV ATCA, 2.13 GHz (four cores, two sockets)

Memory

- Maximum six DIMM DDR2 memory sockets, up to 24 GB
- CF-2 slot for high-capacity Flash

Cache

12 MB L2

Chip set

Intel® 5100 MCH

I/O expansion

- 1x AMC
- 1x AdvancedRTM

Networking

Two GbE channels for base fabric; two 1 GbE and 10 GbE channels for extended fabric; two RS-232 serial ports routed to the front and rear

Two USB ports

Operating systems

Solaris 10 OS x64, Linux, Microsoft Windows 2003 Server

AdvancedRTMs

- XCP32x0-RTM-HD2-Z Dual 146 GB SAS drives, two-SAS egress, 1 GbE, one serial
- XCP32x0-RTM-FC-Z Dual 4 Gb/sec FC HBA, 7 GbE, one serial
- XCP32x0-RTM-NT-Z Dual 10 GbE, 3 GbE, one serial

Management software

Sun Netra ATCA System Management

PICMG compliance

The Sun Netra CP3250 ATCA blade server is compliant with PICMG 3.0 R2 and PICMG 3.1 Option 9 and can be plugged into any of the user node slots of the Sun Netra CT900 ATCA blade server — or any ATCA/PICMG 3.0- and 3.1-compliant chassis

Dimensions

Form factor: Single-slot ATCA (PICMG 3.0)
Height: 322.25mm (12.69 in.) 8 RU
Depth: 280mm (11.02 in.)
Width: 30mm (1.18 in.)

Environment

Operating temperature: 5° C to 40° C (41° F to 104° F) 5–85% relative humidity, noncondensing; short term -5° C to 55° C (23° F to 131° F) 5–90% relative humidity, noncondensing, but not to exceed 0.024 kg water/kg dry air (0.053 lb. water/2.205 lbs. dry air)

Nonoperating temperature: -40° C to 70° C (-40° F to 158° F), up to 93% relative humidity, noncondensing, 38° C (100.4° F) maximum wet bulb

Learn More

To learn more about the Sun Netra CP3250 ATCA blade server, go to: sun.com/netra/cp3250; to learn more about Sun's ATCA product portfolio, go to: sun.com/atca.

Cooling: Available upon request

Seismic: Meets GR-63-CORE requirements for earthquake risk, Zone 4

Measured power: TBD with no AMC or AdvancedRTM

Safety and ergonomics: cULus 60950, CSA C22.2 No. 60950, CB Scheme IEC 60950 with all national differences, EN 60950 (CE), GOST-R

Regulatory compliance: Class A FCC, CE, VCCI, BSMI, C-Tick, MIC, GOST, S-Mark

Telecom environment certification: Telcordia SR 3580, NEBS Level 3

Warranty

One year, return to Sun

Sun Customer Ready program

Factory integration and testing with Sun and third-party components for fast, low-risk deployment



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