

# Sun Netra™ CP3220 ATCA Blade Server

AMD Opteron™ processor-powered ATCA blade for next-gen computing



## Highlights

- Single-socket, Dual-Core or Quad-Core AMD Opteron™ processor
- Choice of the Solaris™ 10 OS x64, Linux, or Microsoft Windows 2003 Server
- Extreme compute density per shelf and rack
- 10 GbE commodity fabric lowers 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 HA functionality
- Long-term reduction of TCO, enabling low cost per subscriber
- Rich ecosystem of partners
- Industry-standard AdvancedTCA and SAF compliance



The Sun Netra™ CP3220 ATCA blade server — a balanced, next-generation, x64 telecom blade from Sun — provides your organization with leading-edge features and performance, including Sun's innovative 10 GbE networking chip. Offering tremendous flexibility and choice, the server enables you to use Advanced Mezzanine Card (AMC) slots, improve memory density, deploy on 10 GbE, and leverage Sun's next-generation AdvancedRTMs. Compliant to PICMG 3.0 R2 and PICMG 3.1 Options 1 and 9, the single-socket Sun Netra CP3220 ATCA blade server offers dual AMC support for I/O expansion and dual- or quad-core processor offerings.

The Sun Netra CP3220 ATCA blade server brings extreme availability and innovation to the datacenter, with advanced features that include eight sockets for up to 64 GB of high-density memory, 10 GbE, and the inclusion of AMD's Revision F common processor socket — which will enable compatibility with upcoming chips. In addition, a large variety of AMC cards are also available through the Sun Netra IHV third-party program, for further flexibility.

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.

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

# Sun Netra CP3220 ATCA Blade Server Specifications

## Processor options

Single-socket support for Dual-Core or Quad-Core AMD Opteron processors at 2.2 GHz and 1.8 GHz

- 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

## Memory

Maximum memory: Eight DDR2 memory sockets for 32 GB and eventually 64 GB; dedicated CF-2 slot for high-capacity Flash memory up to 64 GB

## Cache

1 MB L2 cache, 64 KB I cache, 64 KB D cache

## I/O expansion

Two AMC I/O slots

Sun StorageTek™ 4 Gb FC AMC HBA

Maximum internal disk drives: Dual SAS on rear RTM with support for two hot-swappable 146 GB HDDs as well as SAS HDD support through dual AMC sites

## Networking

Two GbE channels: Two channels for base fabric; two 10 GbE channels for extended fabric; two RS-232 serial ports routed to the front and rear; 10 Gb/sec XAUI Ethernet, eight lanes PCI Express (PCIe)

## Operating systems

Solaris 10 OS x64, Linux, Microsoft Windows 2003 Server

## System

Advanced Rear Transition Modules (AdvancedRTMs)

- XCP32x0-RTM-HD2-Z  
Dual 146 GB SAS drives, two-SAS egress, 1 GbE, one serial

## Management software

Sun Netra ATCA System Management

## High-availability software

Sun Netra High Availability Suite 3.0 and a variety of third-party HA offerings from the industry's top ISVs

## PICMG compliance

The Sun Netra CP3220 ATCA blade server is compliant with PICMG 3.0 R2 and PICMG 3.1 Options 1 and 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

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 CP3220 ATCA blade server, go to [sun.com/netra/cp3220](http://sun.com/netra/cp3220), [sun.com/atca](http://sun.com/atca), and [sun.com/netra](http://sun.com/netra).

Cooling	Available upon request
Seismic	Meets GR-63-CORE requirements for earthquake risk, Zone 4
Measured power	150 W 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



Sun Microsystems, Inc. 4150 Network Circle, Santa Clara, CA 95054 USA Phone 1-650-960-1300 or 1-800-555-9SUN Web [sun.com](http://sun.com)

© 2008 Sun Microsystems, Inc. All rights reserved. Sun, Sun Microsystems, the Sun logo, Solaris, StorageTek, and Sun Netra are trademarks or registered trademarks of Sun Microsystems, Inc., or its subsidiaries in the United States and other countries. AMD, the AMD arrow symbol, AMD Opteron, and combinations thereof are trademarks of Advanced Micro Devices, Inc. Information subject to change without notice.

SunWIN #515451 Lit. #SYDS13594-1 10/08

