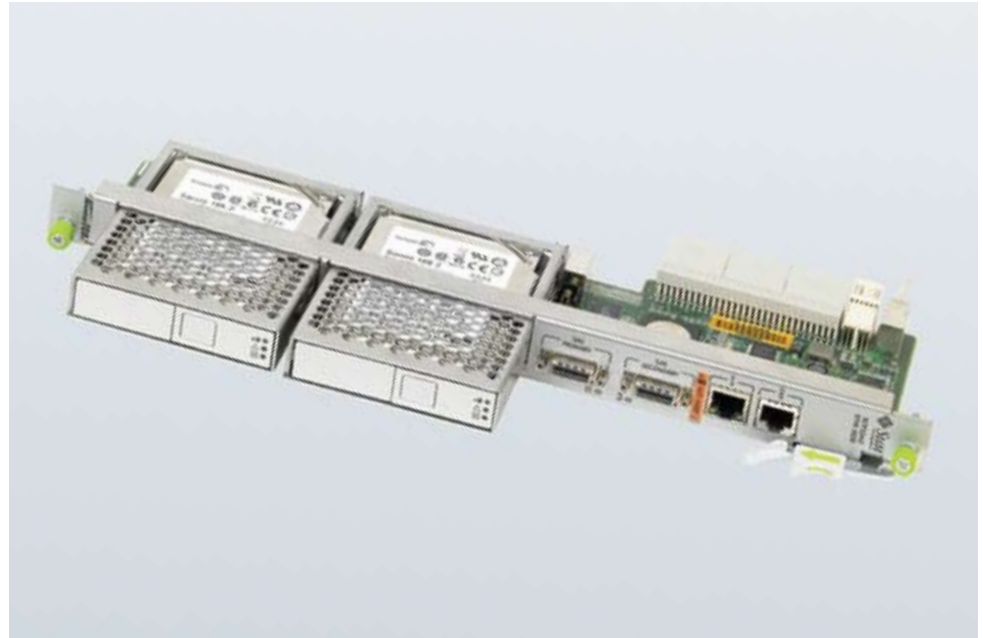


# Sun Netra™ CP3200 Advanced Rear Transition Modules (AdvancedRTMs)

Industry-standard, leading performance



## Highlights

- Enable network equipment providers (NEPs) to simplify system integration and leverage the ATCA standard and reusability across multiple ATCA blade server solutions
- Enhance I/O connectivity density and increase system thermal reliability
- Industry-standard connectors and pin assignments ensure ease of use, reuse, and design flexibility
- Optimized system-level cooling and filtering per slot for ATCA I/O
- Intelligent Platform Management Interface (IPMI) management entities controlled by a Module Management Controller (MMC)
- Maximum real estate and panel space for I/O connector breakout
- Industry-standard connector and lane mapping specified with 10 Gigabit Ethernet, SAS, and more
- NEBS Level 3 compliant and hot swappable, ensuring optimal durability and suitability for telco applications



Sun Netra™ CP3200 Advanced Rear Transition Modules (AdvancedRTMs) are ATCA- and NEBS Level 3-compliant carrier-grade expansion cards that can be attached to the Sun Netra CP3220, CP3250, and CP3260 ATCA blade servers to provide simplified rear access connectivity to a variety of I/O devices such as hard drives, Fibre Channel connections, and 10 GbE networks.

### A common rear I/O architecture for ATCA

By leveraging the ATCA standard, Sun Netra CP3200 AdvancedRTMs enable NEPs to facilitate system integration of multiple applications in a single shelf, enhance I/O connectivity density, and increase system thermal reliability. They also promote reusability across multiple ATCA blade server solutions, as well as the ability to replace the blade servers without disconnecting the cables, providing for simplified management.

### Highest level of interoperability and I/O density available today

These components enable Sun and Sun IHV partners to create market-leading solutions for Sun Netra ATCA 10 GbE blades. Sun Netra CP3200 AdvancedRTMs will support all future Sun ATCA products, and additional configurations and usage models will be

provided from Sun's leading ATCA IHV partner program.

Sun Netra CP3200 AdvancedRTMs offer you the highest level of interoperability and I/O density available today. They also provide for Advanced Mezzanine Card (AMC)-specified system management, Tyco Z-PACK HM-Zd connector, AMC-defined hot-swapping, and port/lane mapping. In addition, they conform to PICMG 3.0 ATCA card specification for RTM cards.

The CPU and AMC combination can be a system-level integration challenge, depending on the placement of components. Many system designers require additional I/O for add-on devices, such as hard drives as well as Fibre Channel and 10 GbE connections. The architecture of Sun Netra CP3200

## Sun Netra CP3200 Advanced Rear Transition Modules (AdvancedRTMs) Specifications

AdvancedRTMs provides for these additional options while enabling dedicated cooling for optimized system-level efficiency. Deploying I/O interfaces on the rear of the system facilitates extremely reliable, tested cooling configurations on a per-slot basis.

Sun Netra CP3200 AdvancedRTMs are a series of three RTMs: the Sun Netra CP3200 ARTM-HD, the Sun Netra CP3200 ARTM-FC, and the Sun Netra CP3200 ARTM-10 GbE. Each is designed to support a specific usage model

### ARTM-HD

Current blade servers supported: Sun Netra CP3220, CP3250, and CP3260 ATCA blade servers

Disks: Up to two 2.5 in. SAS HDDs (146 GB, bootable, RAID 0)

Disk controller: LSI 1068E PCI Express (PCIe) to eight-port SAS controller chip

Secondary I/O: Up to two egress SAS ports (3 GB/sec, bootable, dual host)

Qualified with the NEBS Level 3-certified StorageTek™ 2530 array

### ARTM-FC

Host bus adapter: 4 Gb/sec HB dual-port (Emulex technology), multipath I/O support

Ethernet interfaces: Six 1 GbE interfaces, two with small form factor-pluggable (SFP) support

Expansion port: PCIe x4

Qualified with NEBS Level 3-certified StorageTek 2540 and 6140 arrays

— direct attached storage (DAS), dual SAS hard disk drives, SAN connectivity — dual Fibre Channel or high-speed networking — dual/quad 10 GbE — with leading-edge innovation and efficiency. All three are built to the same world-class Sun standards for proven performance; all support Sun Netra CP3220, CP3250, and CP3260 ATCA blade servers; and all provide enhanced flexibility by running the Solaris™ 10, Linux, and Windows operating systems.

### ARTM-10 GbE

Ports: Two 10 GbE SFP+ ports, hardware TCAM and classification, multiple DMA engines; two multithreaded 1 GbE SFP ports, hardware TCAM and classification, multiple DMA engines

Optional: Two multithreaded 10 GbE ports, UltraSPARC® T2 processor-based network interface unit (NIU) — PICMG 3.1 programmable bypass

### Common architecture

Maximum power: 25 W, powered through the Sun Netra ATCA node board

Networking interfaces: 1 GbE from host ATCA blades

Serial craft ports: One

System management: MMC

### Learn More

For more details about Sun Netra ATCA solutions, go to [sun.com/atca](http://sun.com/atca), [sun.com/netra/cp3220](http://sun.com/netra/cp3220), [sun.com/netra/cp3250](http://sun.com/netra/cp3250), and [sun.com/netra/cp3260](http://sun.com/netra/cp3260).

### Dimensions

Single-slot

Height: 233.35mm (9.19 in.) 8 RU

Depth: 70mm (2.76 in.)

Width: 30mm (1.18 in.)

### Regulations and standards

Conforms to AdvancedRTM interface specification

NEBS Level 3 compliant

Tyco Z-PACK HM-Zd connector

AMC-defined hot-swapping and port/lane mapping

Conforms to PICMG 3.0 ATCA card specification for RTM cards

Complies with IEEE 1101.11 mechanical standards and PICMG 2.10 specifications