

Sun Netra™ CT900 ATCA Blade Server

Flexible, reliable, open standards-based
telecom server



Highlights

- Mix and match up to 12 blade servers running various processors and operating systems in the same chassis
- Support for the Solaris OS, Linux, and Microsoft Windows 2003 Server in the same enclosure
- Massive throughput — with a quick switch upgrade, a 10-times bandwidth improvement is available with a 10 GbE switch, taking advantage of the forward-thinking design
- Enhanced reliability and availability — all key subsystems are redundant and hot swappable
- Future-proofed and flexible, conforming to AdvancedTCA specifications
- Sun Netra™ System Management Software Suite and ATCA 3.0 system management for easy manageability
- Innovative Advanced Rear Transition Modules (AdvancedRTMs) support



Designed primarily for the telecom central-office environment, the rackmountable Sun Netra CT900 ATCA blade server natively supports telecom dry contact alarms and -48 V inputs. It also features user-definable LEDs, centralized system management, and critical major/minor alarming. The Sun Netra CT900 blade server conforms to ATCA and PICMG 3.x specifications, for industry-standard flexibility — any blade that supports these standards could work with the Sun Netra CT900 ATCA blade server. The result is future-proofing that enables this rugged, NEBS Level 3-certified blade server to remain in service longer and reduce the need to do forklift upgrades.

The Sun Netra CT900 ATCA blade server is designed for optimal reliability, availability, and serviceability, with features that include high-mean-time-between-failure midplanes and components, multiple power inputs and power zones, memory RAID (“Chipkill”) support with CMT processors, and storage RAID configurations available with ATCA and NEBS-certified Sun StorageTek™ products. Additionally, all key subsystems in the Sun Netra CT900 ATCA blade server are redundant and hot swappable, including switching, power, and cooling.

The Sun Netra CT900 ATCA blade server supports the entire line of Sun Netra CP3000 ATCA servers, including systems built on UltraSPARC® T1 and T2, AMD Opteron™, and Intel® Xeon® processors. Third-party blades

can be used in the Sun Netra CT900 server if they conform to the same PICMG 3.x options and if the flexibility extends to the type and number of operating systems the blade servers support. Several operating systems can run simultaneously in the same chassis; the OS can be from Sun, such as the Solaris™ 10 OS, or from a third party.

The Sun Netra CT900 ATCA blade server leverages Sun Netra CP32X0 series AdvancedRTMs — fully compatible, hot-swappable, carrier-grade AdvancedTCA I/O rear transition modules designed to provide rear-access connections to Sun Netra ATCA blade servers. Each has its own Intelligent Platform Management Interface (IPMI) controlled by a module management controller. With easy access to I/O via industry-standard

Sun Netra CT900 ATCA Blade Server Specifications

connectors and pin assignments, they enable the creation of high-density systems and facilitate the replacement of Sun Netra ATCA blade servers without disconnecting cables.

Server blades

- Sun Netra CP3260 ATCA blade server/ UltraSPARC T2 processor (up to eight cores with 64 threads), 10 GbE support
- Sun Netra CP3250 ATCA blade server/ Intel Xeon processor L5408, 10 GbE support
- Sun Netra CP3220 ATCA blade server/ Dual- and Quad-Core AMD Opteron processors, 10 GbE support
- Sun Netra CP3060 ATCA blade server/ UltraSPARC T1 processor (up to eight cores and 32 threads)
- Sun Netra CP3020 ATCA blade server/ Single-/Dual-Core AMD Opteron processor
- Sun Netra CP3240 ATCA 10 GbE Switch Blade
- Sun Netra CP3140 ATCA 1 GbE Switch Blade

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
- 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

Alarm panel

- One DB15 for telecom alarm relays
- Major, minor, critical LEDs
- Craft serial port

Rackmount kits

- 19 in.
- 600mm ETSI

Dimensions

- Height: 533mm (21 in.) 12 RU/14-slot
- Width: 444mm (17.7 in.)
- Depth: 482mm

Environment

Temperature

Operating temperature: 0° C to 40° C;
-5° C to 55° C, short-term

Humidity

5–85% relative humidity noncondensing,
5–90% relative humidity, short-term

Seismic

Earthquake risk Zone 4, per GR63-CORE

Acoustic

ETSI sound power 72 dB declared (attended limit), per ISO 9296, 23° C inlet temperature

Cooling

12° C at inlet, ambient temperatures of 25.5° C and above. Total bulk airflow 450 cfm. Per-slot airflow 30 cfm, air temperature rise (55° C at inlet) 12° C. Air speed 400 lfm. Bulk airflow balance 10%/90% EN 300 019-2-1 Class 1.2, EN 300 019-2-2 (except rain and condensation) Class 2.3, EN 300 019-2-3 Class 3.1 (except -5° C cold start)

Input power

-40 V to -72 V

Shelf management modules

Redundant hot-swappable shelf managers

Learn More

To learn more about the Sun Netra CT900 ATCA blade server, go to sun.com/ct900 and sun.com/atca to see all Sun Netra ATCA blades.

Safety

Safety and ergonomics: cUL: UL60950-1 first edition/CSA C22.2 No. 60950-1-03 CB Report: IEC 60950-1:2001 with all national differences TUV GS: EN 60950-1:2000, GOST-R and Russian Hygienics, Argentina S-Mark

Regulatory compliance

Class A limits, FCC CFR47 Part 15, ICES-003, EN 55022 (CE), VCCI, BSMI, C-Tick, GOST, MIC

Immunity

EN 55024:1998, EN 300 386v1.3.1, EN 61000-4-2, -3, -4, -5, -6, -8, 11

Telecom environment certification

NEBS SR-3580 Level 3-certified

Warranty

Standard one-year return to depot

Sun Netra third-party program

Comprehensive IHV and ISV program for carrier-grade systems and applications, including telecom I/O, software stacks, IMS applications and middleware, databases, and more. Go to: sun.com/atca

PICMG standards

- PICMG 3.0 R2
- PICMG 3.1 Options 1 and 9

Sun Customer Ready program

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



Advanced TCA®

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