# SUN NETRA CT900 ATCA BLADE SERVER

## KEY FEATURES

FLEXIBLE, RELIABLE, OPEN STANDARDS-BASED TELECOM SERVER

- 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 for easy manageability
- Innovative AdvancedRTM support

*Designed primarily for the telecom central office environment, the rackmountable Sun Netra CT900 ATCA blade server from Oracle 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 conforms to ATCA and PICMG 3.x specifications.**

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 StorageTek products from Oracle. 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 Oracle's T2 SPARC processor, 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 Oracle—such as the Solaris 10 OS—or from a third party.

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

## Sun Netra CT900 ATCA Blade Server Specifications

| **Server Blades** |
|---|
| • Sun Netra CP3270 ATCA blade server / Intel Xeon processor LC5518 LV 1.73GHz (eight cores, 16 threads, two sockets), 10 GbE support<br>• Sun Netra CP3260 ATCA blade server / UltraSPARC T2 processor (up to eight cores with 64 threads), 10 GbE support<br>• Sun Netra CP3240 ATCA 10 GbE Switch Blade |
| **Operating Systems** |
| Please consult the datasheets for each server blade for a list of supported OSs |
| **System** |
| Advanced Rear Transition Modules |
| • XCP32X0-RTMHD2300D 300 GB SAS drives, two-SAS egress, 1 GbE, one serial<br>• XCP32x0-RTM-FC-Z: Dual 4 Gb/sec FC HBA, 7 GbE, one serial<br>• 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<br>• Major, minor, critical LEDs<br>• Craft serial port |

| **Rackmount Kits** |
|---|
| • 19 in.<br>• 600 mm ETSI |
| **Dimensions** |
| • Height: 533 mm (21 in.) 12RU/14-slot<br>• Width: 444 mm (17.7 in.)<br>• Depth: 482 mm |
| **Environment** |

| | |
|---|---|
| Temperature | Operating temperature:<br>• 0°C to 40°C<br>• – 5°C to 55°C, short-term |
| Humidity | • 5%–85% relative humidity, noncondensing<br>• 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<br>• Per-slot airflow 30 cfm, air temperature rise (55°C at inlet) 12°C; air speed 400 lfm<br>• 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 |
| **Safety** |
| • Safety and ergonomics: cUL: UL60950-1 first edition / CSA C22.2 No. 60950-1-03<br>• CB Report: IEC 60950-1:2001 with all national differences<br>• 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 |
| **PICMG Standards** |
| • PICMG 3.0 R2<br>• PICMG 3.1 Options 1 and 9 |

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## Warranty

Visit oracle.com/sun/warranty for Oracle's global warranty support information on Sun products.

## Services

Visit oracle.com/sun/services for information on Oracle's service program offerings for Sun products.

## Contact Us

For more information about Oracle's Sun Netra CT900 ATCA blade server, please visit oracle.com/sun or call +1.800.786.0404 to speak to an Oracle representative.

Oracle is committed to developing practices and products that help protect the environment

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