

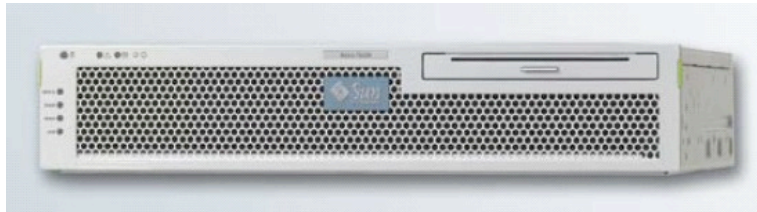
SUN NETRA T5220 SERVER

KEY FEATURES

CUTTING-EDGE THROUGHPUT, HIGH-DENSITY, CARRIER GRADE SERVER

- Telcordia NEBS Level 3 certification, for reliable operation in severe environmental conditions
- Enables up to 64 simultaneous execution threads using the UltraSPARC T2 "system on a chip" processor
- Exceptional performance; unequalled energy savings; and space-efficient, rack-optimized, 2RU, 20 in.-deep design
- Integrated virtualization technology, enabling more than 1,250 isolated domains per rack
- Integrated on-chip cryptographic acceleration and 10 GbE enable secure computing at wire speed
- Expandability and I/O performance from six PCI slots and four Ethernet interfaces
- Enhanced system uptime with high on-chip RAS, redundant power supplies, hot-pluggable disk drives, and support for hardware RAID (0 and 1)
- Oracle Solaris

Oracle's Sun Netra T5220 server, with the energy and space efficiencies to meet the ever-increasing demands of the network infrastructure, is a ruggedized, compact, 20 in.-deep server that provides an ideal platform for virtualization and consolidation, offering 64 virtual systems in a single server.



The Sun Netra T5220 server includes hot-swappable, redundant, AC or DC power supplies and hot-pluggable disk drives.

Sun Netra T5220 Server Overview

The Sun Netra T5220 server is ideal for network applications where throughput, power, cooling, and space are key issues. It harnesses the power of the UltraSPARC T2 processor, which delivers up to eight cores and 64 simultaneous execution threads, enabling massive levels of consolidation and virtualization. Media gateway controllers; security systems; IP traffic management systems; telecom operations and maintenance; signaling gateways; and a host of defense, military, and intelligence applications can benefit from the UltraSPARC T2 processor's chip multithreading (CMT) architecture. In addition, the processor incorporates key functions including security and 10 GbE technology. All of this power and functionality is packed in a compact, carrier-grade, rack-optimized, 2RU, 20 in.-deep enclosure.

The Sun Netra T5220 server features Integrated Lights Out Manager (ILOM) for remote management and administration, with a ruggedized enclosure to minimize downtime due to environmental conditions. The server includes hot-swappable, redundant, AC or DC power supplies and hot-pluggable disk drives.

As with other Sun Netra servers, the Sun Netra T5220 server is NEBS Level 3 certified and ETSI compliant, making it ideal for the most demanding applications in the toughest environments. The server also offers integrated no-cost virtualization technologies with a choice of Solaris Containers and Logical Domains (LDoms). By offering 64 virtual systems in a single server, the Sun Netra T5220 server enables ultimate consolidation along with unequalled energy savings and space efficiency.

Sun Netra T5220 Server Specifications

Processor
<ul style="list-style-type: none"> Up to eight-core, 1.2 GHz UltraSPARC T2 processors; one processor per system, maximum 64 threads
Main Memory
<ul style="list-style-type: none"> 16 FB-DIMM slots; up to 64 GB memory
System Architecture
<ul style="list-style-type: none"> SPARC V9 architecture, ECC protected, 4 MB integrated L2 cache per CPU Dual, multithreaded, 10 GbE PCI Express (PCIe) integrated onto chip Eight floating-point units Onboard cryptography supporting 10 embedded security industry-standard ciphers
Standard Integrated Interfaces
<ul style="list-style-type: none"> Network: Four: 10/100/1000 Mb/sec Ethernet; up to 2x optional 10 GbE XAUI connections Network management: One 10/100 Mb/sec Ethernet port Serial management: One TIA/EIA-232-F asynchronous RJ-45 port USB: Two 2.0 USB ports (rear) Expansion bus: Three PCIe slots for MD2 low-profile cards—two x4 electrical/x8 mechanical, one x8 electrical/x8 mechanical—two of these slots are shared with 10 GbE XAUI cards One PCIe slot for full-height, full-length cards—x8 electrical/x16 mechanical Two PCI-X slots for full-height cards (1x full length, 1x half length)—64-bit, 133 MHz Serial: One serial port—DB-9 Alarms: Four fail-safe, dry contact alarms: critical, major, minor, and user—DB-15
Mass Storage and Media
<ul style="list-style-type: none"> Up to four internal 300 GB SAS drives, 2.5 in. (without DVD or 2 HDD with a DVD); one slimline DVD-R/W
Operating System
<ul style="list-style-type: none"> Oracle Solaris
Virtualization
<ul style="list-style-type: none"> Integrated, open-source, no cost virtualization technology provides the flexibility and power of 64 virtual systems in a single server
Remote Management
<ul style="list-style-type: none"> ILOM
Power Supplies
<ul style="list-style-type: none"> Two 1+1 redundant DC or AC hot-swappable power supplies Maximum power supply rating: 650 W

Environment
<ul style="list-style-type: none"> DC power: -48 V DC or -60 V DC AC power: 100–240 V AC, 50–60 Hz Operating temperature: 5°C to 40°C (41°F to 104°F), short-term -5°C to 55°C (23°F to 131°F) Operating relative humidity: 5%–85%, noncondensing

- Short-term relative humidity: 5%–90%, noncondensing, but not to exceed 0.024 kg water/kg dry air (0.053 lbs.water/2.205 lbs. dry air)
- Operating altitude: Up to 3,000 m (9,850 ft.) at 40°C
- Nonoperating temperature: -40°C to 70°C (-40°F to 158°F)
- Nonoperating relative humidity: Up to 93%, noncondensing, 40°C (104°F)
- Nonoperating altitude: Up to 12,000 m (40,000 ft.)
- Acoustic noise: Operating/idling 7.2 B (LwAd: 1 B = 10 dB)
- ETSI: EN 300019-2-1, 2, 3, Class 1.2, 2.3, 3.1E (except condensing humidity and rain)
- NEBS: NEBS Level 3 certified by Telcordia
- Seismic: GR-63-CORE requirements for Earthquake Zone 4

Dimensions and Weight

- Height: 87.1 mm (3.43 in.)
- Width: 445 mm (17.52 in.) including bezel
- Depth: 526 mm (20.71 in.) max., to PSU handles
- Depth: 501 mm (19.72 in.) to rear I/O
- Weight: 17.5 kg (38.5 lb.) fully configured without PCI cards

Regulations

- Safety: UL/CSA 60950-1, EN 60950-1, IEC 60950-1 CB Scheme with all national differences, IEC 825-1, 2, and CFR 21 Part 1040
- RFI/EMC: EN 55022/CISPR 22 Class A, FCC CFR 47 Part 15 Class A
- Immunity: EN 55024/CISPR 24, EN 61000-3-2, EN 61000-3-3
- Telecommunications: EN 300 386
- Regulatory markings: CE, FCC, ICES-003, C-Tick, VCCI, GOST-R, MIC, UL/cUL, S-Mark, BSMI, CCC
- Other: Restriction of Hazardous Substances (RoHS) labeled, per WEEE (Waste Electrical and Electronics Equipment) Directive (2002/95/EC)

Upgrades

- Customers can trade in their old Sun or non-Sun servers and reRFI/EMC: EN 55022/CISPR 22 Class A, FCC CFR 47 Part 15 Class A
- Immunity: EN 55024/CISPR 24, EN 61000-3-2, EN 61000-3-3
- Telecommunications: EN 300 386
- Regulatory markings: CE, FCC, ICES-003, C-Tick, VCCI, GOST-R, MIC, UL/cUL, S-Mark, BSMI, CCC
- Other: Restriction of Hazardous Substances (RoHS) labeled, per WEEE (Waste Electrical and Electronics Equipment) Directive (2002/95/EC)

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 T5220 server, please visit oracle.com/sun or call +1.800.786.0404 to speak to an Oracle representative.



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