SUN SPARC ENTERPRISE T5240 SERVER

CONSOLIDATE LIKE NEVER BEFORE. VIRTUALIZATION COMES FREE.

- Up to 128 simultaneous compute threads per server and 2,500 threads per rack, for breakthrough virtualization and consolidation
- World's first dual-socket general-purpose server powered by the third-generation UltraSPARC T2 Plus processor
- Built-in, no-cost virtualization technology with Oracle VM Server for SPARC (previously called Sun Logical Domains) and Oracle Solaris Containers
- Integrated on-chip cryptographic acceleration
- Onboard 10 Gigabit Ethernet (GbE) for secure computing and high-speed networking
- Up to 4x the memory and storage capacity of competitive systems
- Oracle's Flash SSDs accelerate application response times and slash energy consumption
- Massive I/O performance and expandability with Oracle's Sun External I/O Expansion Unit, supporting up to 12 additional PCI Express slots

When other systems can't keep up, the high-performance Sun SPARC Enterprise T5240 server from Oracle comes through—delivering up to two to four times the memory and storage capacity of competitive systems. Use Sun SPARC Enterprise T5240 server to consolidate your data center using built-in, no-cost virtualization.

The Sun SPARC Enterprise T5240 server allows you to consolidate your data center environment by delivering more memory and storage than other servers.

Less Means More with a Dual-Socket Server

The Sun SPARC Enterprise T5240 server is the first dual-socket, general-purpose server powered by UltraSPARC T2 Plus third-generation "system on a chip" processor, featuring up to 128 compute threads and running on the free and open source Oracle Solaris Operating System. Each processor packs up to eight cores and up to 64 simultaneous threads onto a single piece of silicon, together with the key functions of an entire system on a single chip—computing, security, and I/O.

The innovative design and reliability features of the Sun SPARC Enterprise T5240 server significantly increase uptime and reduce unplanned service actions. Extreme integration at both the processor and system level deliver a part count reduction of up to 53 percent compared to competitive two-socket x86 platforms and 12x compared to legacy midrange server platforms, directly reducing service interruptions due to component failure.

The Sun SPARC Enterprise T5240 server delivers up to 256 GB of memory, up to 16 internal disks, industry-standard systems management, no-cost development and deployment tools, and integrated cryptographic acceleration—all in a compact two-rack unit (2 RU) form factor.

Maximize Capacity, Minimize Overhead

Maximize your server capacity, utilization, and infrastructure agility while minimizing energy, space, and cooling requirements, as well as reducing administrative overhead. The Sun SPARC Enterprise T5240 server offers the industry's only built-in and no-cost virtualization technologies, with a choice of Oracle Solaris Containers and Oracle VM Server for SPARC (previously called Sun Logical Domains). By enabling up to 128 isolated domains per server, you can deploy up to 2,500 isolated domains per rack, for ultimate server virtualization and consolidation.

Sun SPARC Enterprise T5240 Server Specifications

The following section details the Sun SPARC Enterprise T5240 server specifications in a variety of areas.

Key Applications
• Consolidation and virtualization
• Web serving
• Streaming media
• Security applications
• Web, middleware, and application tier workloads, especially Java environments
• OLTP databases
• Multithreaded HPC workloads with large instruction and data sets
• New Web services deployments
• SOA infrastructure implementations
• Deployments requiring memory and hard drive expandability

Architecture
• Processor. Four-, six-, and eight-core 1.2 GHz or eight-core 1.4 GHz or eight-core 1.6 GHz UltraSPARC T2 Plus processors, two processors per system, maximum 128 threads.
• Cache. 4 MB integrated L2.
• Main memory. 32 FB DIMM slots, system maximum of 256 GB; support for 2 GB, 4 GB, and 8 GB low-voltage (1.55 V) DIMMs; minimum of 16 GB (8 x 2 GB).

System Architecture
• The Sun SPARC Enterprise T5240 server uses Sun SPARC V9 architecture, ECC protected

Other Processor Key Features
• One floating
• Onboard cryptography supporting 10 embedded security industry

Key RAS Features
• Hot-pluggable disk drives
• Redundant hot-swappable AC power supplies
• Redundant hot-swappable fans
• Up to six hot-swappable system fan modules
• Environmental monitoring
• Error correction and parity checking
• Easy component replacement
• Internal hardware drive mirroring (RAID 1)
• RAID 0 and 1 support
• Ultralow part count with 53 percent fewer parts than competitive four-socket x86 systems

Standard integrated interfaces
The Sun SPARC Enterprise T5240 server includes the following interfaces:
• Network. Four 10/100/1000 Mb/sec Ethernet ports; up to 2x optional 10 GbE XAUI connections.
• Expansion bus. Four dedicated eight-lane PCIe expansion slots, two eight-lane PCIe or XAUI expansion slots.
• Ports. Four USB 2.0 ports, one RJ45 serial management port, one 10/100 Mb/sec Ethernet network management port, one DB9 serial port.

Software
Operating system
• Oracle Solaris 10 8/07
• Oracle Solaris 10 5/08
• Oracle Solaris 10 10/08
• Oracle Solaris 10 5/09
• Oracle Solaris 10 10/09
Software included
• Oracle Solaris 10 10/09 preloaded
• Oracle VM Server for SPARC 1.3, including MIB pre-install
• Oracle Sun Studio 12 U1 pre-install
• GCC for SPARC Systems Version 4.3.2 pre-install
• CMT Developer Tools Version 1.2 pre-install
• Live Upgrade, Alternate Boot Environment (ABE) pre-install
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Mass storage and media
• Internal disk. Up to eight or sixteen 146 GB/300 GB 2.5 in. SAS drives, depending on selected backplane; or up to eight 32 GB 2.5 in. SATA solid-state drives (SSD).
• Internal DVD. One slimline CD-RW/DVD-RW.
• External storage. Oracle offers a complete line of best-in-class, innovative storage hardware, software, and solutions—including tape drives, tape libraries, disk storage systems, data management software, and more—along with renowned world-class service and support.

Virtualization
• Built-in, no-cost virtualization technology providing the flexibility and power of 128 virtual systems in a single server • Pre-install software: Oracle VM Server for SPARC (previously called Sun Logical Domains)

Environment
• *Operating temperature.* Sea level to 900 m (2,953 ft.): 5°C to 35°C (41°F to 95°F); above 900 m (2,953 ft.): decrease the maximum allowable temperature by 1°C/300 m (1.6°F/1,000 ft.); IEC 60068-2-1 Test Ad, and 60068-2-2 Test Bd. • *Nonoperating temperature.* Sea level to 900 m (3,000 ft.) 40° to 65° (40° to 149°F), above 900 m (3,000 ft.) 40° to 60° (40° to 140°F) (maximum altitude, 40,000 ft.) • *Operating relative humidity.* 10% to 90% RH, 27°C maximum wet bulb (noncondensing) • *Nonoperating relative humidity.* 93% RH, 35°C maximum wet bulb (noncondensing) • *Operating altitude.* 3,000 m (10,000 ft.) • *Nonoperating altitude.* 12,000 m (40,000 ft.) • *Acoustic noise.* Operating/idling acoustic noise 7.7 B (LwAd, 1 B = 10 dB), operating/idling sound pressure level 66 dB (LpAm, bystander positions)

Power
• The Sun SPARC Enterprise T5240 server supports two hot swap power supplies providing N+1 redundancy. Also available are DC 1200 W power supply units.

Regulations
• *Safety.* UL/CSA-60950-1, EN60950-1, IEC60950-1 CB Scheme with all country deviations, IEC825-1, 2, CFR21 part 1040, CNS14336, GB4943 • *RFI/EMC.* EN55022 Class A, 47 CFR 15B Class A, ICES-003 Class A, VCCI Class A, AS/NZ3548 Class A, CNS 13438 Class A, KSC 5858 Class A, GB9254 Class A, EN61000-3-2, GB17625.1, EN61000-3-3. • *Immunity.* EN55024, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11. • *Regulatory.* CE, FCC, ICES-003, C-tick, VCCI, GOST-R, BSMI, MIC, UL/cUL, UL/DEMKOLVD, UL/S-mark, CCC.

Dimensions and Weight
The Sun SPARC Enterprise T5240 server's physical specs are as follows:
• *Height.* 88 mm (3.49 in.); 2 RU • *Width.* 425 mm (16.75 in.) • *Depth.* 714 mm (28.125 in.) • *Weight.* 23.81 kg (52.5 lb.)

Warranty

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

Services

You can maximize your investment in the Sun SPARC Enterprise T5240 server by leveraging Oracle services that optimize your data center power, space, and cooling or help you to architect and deploy consolidation and virtualization projects. In addition, Oracle offers a range of services to help you upgrade to Solaris 10. You may also choose support options that provide world-class hardware and operating system support. 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 SPARC Enterprise T5240 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