

CONSOLIDATE LIKE NEVER BEFORE.
VIRTUALIZATION COMES FREE.

KEY FEATURES

- Up to 256 simultaneous compute threads per server.
- Increased throughput over previous T-series
- Built-in, no-cost virtualization technology with Oracle VM Server for SPARC (previously called Sun Logical Domains)
- Up to 4x I/O performance vs. prior generation of system
- Massive I/O performance supporting up to 10 PCIe low-profile slots
- Integrated on-chip cryptographic acceleration
- Oracle Sun Flash Accelerator F20 PCIe cards improve application response times, slash energy consumption
- Oracle Solaris 9 OS applications run unchanged on Oracle Solaris 10 OS

SPARC T3-2 SERVER

Among the biggest problems facing businesses today are poor space utilization, high energy and cooling costs and overcrowded data centers. It doesn't matter the size of the company, all are feeling the pinch when it comes to data center consolidation. Oracle's SPARC T3-2 is the answer for consolidation of legacy servers, saving valuable data center real estate, and significantly cutting operational costs.



Product Overview

As the newest two-socket, three-rack unit (3U) server, the SPARC T3-2 is powered by the industry's first 16-core SPARC T3 processor, and is the first 256-thread general-purpose server. It packs 16 cores and 128 simultaneous threads onto a single piece of silicon, together with the key functions of an entire system on a single chip – computing, networking, security, and IO.

The SPARC T3-2 features six hard drives (HDDs), 32 DDR3 DIMM slots, and 10 PCIe Gen2 slots. When fully populated with 8GB DDR3 DIMMs, the system provides a total of 256 GB memory.

Built-in Virtualization

The SPARC T3-2 server offers built-in, no cost virtualization technologies that enable organizations to extract maximum value from IT assets while creating an infrastructure capable of rapidly adapting to today's dynamic business environment. Oracle VM Server for SPARC provides highly efficient, enterprise-class virtualization capabilities by creating partitions called logical (or virtual) domains. Each logical domain can run an independent operating system. While customers may achieve the optimal results with 32 logical domains, the SPARC T3-2 server supports a maximum of 128 logical domains, allowing organizations to consolidate workloads and maximize their use of compute platforms, simplifying their IT infrastructure and bringing new levels of efficiency, manageability, and agility to the data center.

SPARC T3-2 Server Specifications

Key Applications	
<ul style="list-style-type: none"> • Business applications such as ERP/CRM • Specialized application for billing, supply chain, engineering and manufacturing • Virtualization and consolidation • Web server • Net backup 	
Processor	
<ul style="list-style-type: none"> • Sixteen-core 1.6 GHz SPARC T3 processors • Two processors per system, maximum 256 threads • Sixteen floating-point units • Dual multithreaded 10 GbE PCI integrated onto chip • On-board cryptography with new Kasumi Bulk algorithm, supporting 12 embedded security industry-standard ciphers: DES, 3DES, AES, RC4, SHA1, SHA256, SHA384, SHA512, MD5, RSA to 2048 key, ECC, CRC32 	
Main Memory	
<ul style="list-style-type: none"> • 32 DDR3 DIMM slots, system maximum of 256 GB • Support for 4 GB, and 8 GB DIMMs 	
System Architecture	
SPARC V9 architecture, ECC protected	
Cache per Processor	
6 MB integrated L2	
Standard/Integration Interfaces	
<ul style="list-style-type: none"> • Network. 4x 1Gb (10/100/1000MBs) integrated Ethernet ports. Option slot for 4x 10GbE XAUI ports. • Expansion bus. Ten total. Eight x8 PCIe Gen 2 slots, two x4 PCIe Gen2 slots • Ports. Four external USB 2.0 ports, one internal USB 2.0 port. One VGA port 	
Mass Storage and Media	
Internal disk	Up to six 300 GB GB 2.5 in. SAS drives. Internal DVD: One slimline SATA DVD+/-RW.
External storage	Sun offers a complete line of best-in-class, innovative storage, hardware, and software solutions, along with renowned world-class service and support. For more information, please refer to oracle.com/storage .
Software	
Operating system	<ul style="list-style-type: none"> • Oracle Solaris 10 9/10 (U9) • Support for Solaris 10 10/09 (U8) + Oracle Solaris 10 9/10 Patch Bundle
Software included	<ul style="list-style-type: none"> • Oracle Solaris 10 9/10 • Oracle VM Server for SPARC 2.0 • Electronic Prognostics 1.1
Virtualization	
Built-in, no-cost Oracle VM Server for SPARC (previously called Sun Logical Domains) and Oracle Solaris Containers provide the flexibility and power of 128 virtual systems in a single server	
Power Supplies	
<ul style="list-style-type: none"> • Two hot-swappable AC 2,060W redundant (N+1) power supplies 	

<ul style="list-style-type: none"> • Maximum operating input current: 12A @ 200 V AC • Maximum operating input power at 200 V AC: 1325W 	
Environment	
Operating temperature	<ul style="list-style-type: none"> • 5°C to 35°C (41°F to 95°F)
Nonoperating temperature	<ul style="list-style-type: none"> • -40°C to 65°C (-40°F to 149°F)
Operating relative humidity	<ul style="list-style-type: none"> • 10% to 90%, noncondensing, 27°C wet bulb
Nonoperating relative humidity	<ul style="list-style-type: none"> • 93%, noncondensing, 38°C (100.4°F) wet bulb
Operating altitude	<ul style="list-style-type: none"> • 0 m to 3,000 m (0 ft. to 10,000 ft.)
Nonoperating altitude	<ul style="list-style-type: none"> • 0 m to 12,000 m (0 ft. to 40,000 ft.)
Acoustic noise	<ul style="list-style-type: none"> • 61.2 dBA (LwAd: 1 B = 10 dB) • 61.5 dBA operating max (LpAm: bystander positions)
Cooling	4361.9 Btu/hr, 230 cfm max
Dimensions and Weight	
<ul style="list-style-type: none"> • Height: 129.85mm (5.11 in); 3RU • Width: 436.5 mm (17.185 in.) • Depth: 732 mm (28.81 in.) • Weight: Approx. 36.28kg (80 lbs.) max., without rackmount kit. 	
Regulations (Meets or Exceeds the Following Requirements)	
<ul style="list-style-type: none"> • Safety: UL/CSA 60950-1, EN 60950-1, IEC 60950-1 CB Scheme with all country deviations, IEC 825-1, 2 CFR 21 part 1040, CNS 14336 • EMI/EMC: EN 55022 Class A, 47 CFR 15B Class A, ICES-003 Class A, VCCI Class A, AS/NZ 3548 Class A, CNS 13438 Class A, KSC 5858 Class A, EN 61000-3-2, EN 61000-3-3 • Immunity: EN 55024, 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 markings: CE, FCC, ICES-003, C-Tick, VCCI, GOST-R, BSMI, MIC, UL/cUL, UL/S-Mark • Ergonomics: EK1-ITB-2000 	
Key RAS Features	
<ul style="list-style-type: none"> • Hot-pluggable disk drives • Redundant, hot-swappable power supplies and fans • Environmental monitoring • Error correction and parity checking memory • Easy component replacement • Integrated disk controller with RAID 0 and 1 • Electronic Prognostics 1.1 	

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 the Oracle SPARC T3-2 server, please visit oracle.com/sun or call +1.800.ORACLE1 to speak to an Oracle representative.

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