

# SPARC Enterprise M3000 Server Powered by the SPARC64 VII+ Processor – Frequently Asked Questions

## Overview

Oracle's SPARC Enterprise M3000 server delivers mission-critical reliability, availability, and serviceability (RAS) in a 2RU footprint. This affordable, single-processor server is the gateway server to the M-series product line which scales from one to 64 processors, enabling your organization to keep pace with your growing needs.

## Customer Benefits

### Best for Mission Critical Computing

The SPARC Enterprise M3000 server is designed with the SPARC64 VII+ processor, which utilizes a Simultaneous Multi-Threading architecture (SMT), that allows for excellent single core performance. The latest I/O interfaces, PCI-Express, and SAS system architecture have been improved to minimize latency and provide maximum throughput, regardless of whether the workload is compute, I/O, or memory intensive.

Mission-critical reliability in a single-CPU, 2RU form factor at an entry-level price

- Powered by the SPARC64 VII processor, ideal for single-threaded workloads
- 100% SPARC/Solaris binary compatibility for unmatched investment protection
- Mission-critical RAS capabilities ensure uptime even with failed components
- Easy to integrate into existing infrastructure and scale out as business needs grow
- Save on hardware, service, power consumption, and floor space costs by upgrading from legacy UltraSPARC-IIIi servers
- With advanced virtualization capabilities, clustering and high scalability the SPARC M3000 server is ideal for enterprise consolidation projects.

### Target Users and Market

The SPARC Enterprise M3000 utilizes a 2.86GHz SPARC64 VII+ processor and new system interconnect. Positioned as a replacement to the SunFire V245/V445 servers, this 2U rack server is a high-performance platform with a growth path for previous generation Sun servers.

- The SPARC M3000 server provides the high performance characteristics required by our customers who still need systems to maximize the performance of their single threaded applications. Business Intelligence, Data Mining, Batch Processes, business processing (ERP, SCM, CRM), BIDW (database, data-mart, DSS), collaboration, scientific engineering and application development.
- Oracle Solaris OS pre-installed on all standard configurations enables rapid out of box customer deployment.

### Unmatched Investment Protection

A clear upgrade path, Oracle Solaris binary compatibility, and virtualization options to consolidate workloads, make for unmatched investment protection.

- Oracle guarantees Oracle Solaris binary compatibility. Customers are free to update to newer operating system versions while maintaining their investment in customized applications.
- Virtualization options, from hardware domains to Oracle Solaris Containers, make M-series the best platform to consolidate mission-critical, enterprise class applications.

## Frequently Asked Questions

### What is SPARC64 VII+?

SPARC64 VII+ is the latest SPARC64 processor in the M-series line of servers. This processor runs at 2.86GHz.

### What are the main differences between SPARC64 VII and VII+?

The SPARC64 VII+ processor runs at 2.86GHz compared to the SPARC64 VII version running at 2.75GHz. In addition, the L2 cache has increased to 5.5MB compared to 5MB on the SPARC64 VII. Customers can expect up to a 20% increase in performance. For benchmark details visit:

[www.oracle.com/benchmarks](http://www.oracle.com/benchmarks)

### Why should I use an M-series server?

SPARC Enterprise M-series servers are ideal for mission critical computing, scalability, and investment protection and an ideal platform when running single-threaded applications such as BI, data mining, and batch processing.

### What virtualization technologies are available for the SPARC Enterprise M3000 server?

With Oracle Solaris Containers customers can isolate applications and services, and run multiple environments within a single instance. With hardware partitions, customers can divide systems into fault-isolated partitions, running independent instances of Oracle Solaris.

### What are the memory, storage, and expansion options supported on the SPARC Enterprise M3000 server?

The SPARC Enterprise M3000 server supports up to 64GB of memory using 8GB DIMM, four PCI Express I/O slots, and up to four 600GB internal, 2.5in. SAS HDDs. Data on the internal disk can be further protected using the built-in HW RAID support.

### What are the power options for the SPARC Enterprise M3000 server?

The SPARC Enterprise M3000 server supports redundant power supplies. The power supplies support either AC or DC input.

### What are the operating systems that have been certified to run on the SPARC Enterprise M3000 server?

The SPARC Enterprise M3000 server support Oracle Solaris 10. Oracle Solaris 10 is the strategic platform for today's demanding enterprise, delivering proven results on everything from mission-critical enterprise databases to high-performance web farms, and from chip multithreading systems to industry standard x86 systems. Oracle Solaris 10 has technologies such as DTrace, ZFS, Containers and Predictive Self-Healing, making it the safest and most scalable UNIX operating system available.

### What software is pre-installed on the SPARC Enterprise M3000 server?

The SPARC Enterprise M3000 server comes with Oracle Solaris 10 pre-installed.

### What are the system management options available for the SPARC Enterprise M3000 server?

The SPARC Enterprise M3000 server includes an eXtended System Control Facility (XSCF). The XSCF consists of a dedicated processor that is independent of the server and runs the XSCF Control Package (XCP) to provide remote monitoring and management capabilities. This service processor regularly monitors environmental sensors, provides advanced warning of potential error conditions, and executes proactive system maintenance procedures as necessary.

### What are the service and support options?

Oracle offers tailored mission critical services and support options. Comprehensive product installation, configuration, optimization and on-going monitoring and tailored support are available from Oracle Advanced Customer Services. Oracle service professionals deliver the technical product expertise, tools, best practices and project management knowledge to help ensure a smooth and highly optimized implementation. For more information contact your Oracle representative, email [acsdirect\\_us@oracle.com](mailto:acsdirect_us@oracle.com) or visit [oracle.com/acs](http://oracle.com/acs).

The SPARC Enterprise M3000 server data sheet provides additional detailed information:

<http://www.oracle.com/us/products/servers-storage/servers/sparc-enterprise/m-series/035939.pdf>

For more information about the Oracle UAP trade-in programs for Oracle Sun SPARC Enterprise servers, refer to:

<http://www.oracle.com/us/products/servers-storage/upgrade-advantage-program/index.html>

M3000 Upgrade Offers:

<http://www.oracle.com/us/products/servers-storage/upgrade-advantage-program/overview/ibb-uap-m3000-175953.html>

Note: Specific M3000 qualifications may qualify for the up to 15% trade-in offer.

**Can I choose my system configuration?**

The SPARC M3000 server must be ordered as a “fixed” configuration, which includes processors, memory, disk drives and I/O trays. Flexible ordering known as “Assemble to Order-ATO” is not available.

**Where can I get more information?**

Contact your Oracle Sales representative directly or call 1-800 Oracle1. For more information go to:

M3000: <http://www.oracle.com/us/products/servers-storage/servers/sparc-enterprise/m-series/031588.htm>

<http://www.oracle.com/store>



**Oracle Corporation**

**Worldwide Headquarters**

500 Oracle Parkway  
Redwood Shores, CA  
94065  
U.S.A.

**Worldwide Inquiries**

Phone  
+1.650.506.7000  
+1.800.ORACLE1

Fax  
+1.650.506.7200

oracle.com



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