# SUN SPARC ENTERPRISE M3000 SERVER

#### **KEY FEATURES**

EXTREME PERFORMANCE AND MISSION-CRITICAL RAS AT AN ENTRY-LEVEL PRICE

- Reduce power consumption, cooling, and floor space by up to 75% over legacy UltraSPARCIIIi servers
- Mainframe-class reliability in a single-CPU, 2RU form factor at an entry-level price
- Seamless scalability from 1 CPU up to 64 CPUs within the same M-Series family
- Mission-critical RAS capabilities
- Industry leading Oracle Solaris enables you to run older Oracle Solaris 8 and 9 apps without modification on Oracle Solaris 10 with containers
- Integrated, flexible, no-cost virtualization technology
- Reduce your IT cost by up to \$92,000 when you consolidate two Sun Fire V445 servers onto one M3000
- Services expertise available to install, support and optimize your server implementation

Oracle's Sun SPARC Enterprise M3000 server running the industry-leading Oracle Solaris Operating System is an affordable, single-processor server that inherits the mission-critical features of the M-Series Enterprise family--delivering extreme RAS and performance in a 2RU footprint. With the ability to scale from one to 64 processors within the same family, you can start small and grow big!



The compact and flexible Sun SPARC Enterprise M3000 server provides extreme performance and mission-critical RAS at an entry-level price.

## **Keep Pace with Expanding Needs**

The Sun SPARC Enterprise M3000 server running the industry-leading Oracle Solaris OS was architected to help our customers contain existing application fees, deploy new business services and consolidate existing distributed systems more cost effectively and reliably than ever before.

Because it is part of the Sun SPARC Enterprise M-Series family, the M3000 allows our customers to scale from 1 CPU to 64 CPUs all within the same family and without having to learn a new management system. That means our customers can take advantage of Enterprise class RAS features in a 2 RU box and can incrementally grow and configure their business processes exactly as they need them. No wasted resources, just improved utilization that will meet their IT needs well into the future. This system allows our users to start small and grow big.

## **Consolidate and Lower IT Costs**

The compact and flexible Sun SPARC Enterprise M3000 server delivers greatly improved business efficiency. Customers can maintain the current performance levels of two Sun Fire V445 servers by consolidating onto one M3000 server and reduce space and power consumption by 75 percent. In addition to its ecoefficiencies and mainframe-class reliability features, the Sun SPARC Enterprise M3000 server is an easy-to-manage consolidation/virtualization platform. When combined with Sun and partner service offerings, customers can accelerate their



time to market, and capture new revenue streams while dramatically improving throughput, energy efficiency and service level predictability, at reduced costs.

## **Sun SPARC Enterprise M3000 Server Specifications**

## **Processor**

- One SPARC64 VII dual-core or quad-core SPARC V9 Architecture, ECC protected
- Cache Level 1: 64 KB D-cache and 64 KB I-Cache
- Cache Level 2: 5 MB on-chip
- Clock speed: SPARC64 VII: 2.75 GHz

## System

- CPU: One CPU board (CMU), one CPU per board
- Main memory: Up to 64 GB per domain/system, with 8 GB DIMM
- I/O: Four PCIe short low-profile slots (x8 lane)
- Jupiter Bus: High-speed, low-latency interconnect system bus with redundant data, address, and response crossbar interconnect
- System bus bandwidth: 20 GB/sec peak, 6.4 GB/sec stream (memory) (copy)
- System bus bandwidth (I/O): 4 GB/sec peak
- Optical drive: One internal DVD drive
- Service processor for one Dynamic Domain system management

## Storage

- Boot device: Up to four 300 GB internal, 2.5 in. SAS HDDs
- External: Direct, SAS attached to Sun StorageTek disk arrays using the built-in external SAS port (2 lane)
- Resource management: Native Browser interface for complete platform management; Native Sun Management Center 4.0; Oracle's Sun Solaris 10 Resource Manager including Solaris Containers

## **Software**

# Operating System

- Minimum OS support: Oracle Solaris 10 10/08 (Update 6 or higher)
- Note: Oracle Solaris 10 (Updates 6 & 7) require install of S10U8 Patch Bundle (MU8) and XCP 1091 (minimum) for the 2.75 GHz processor

## Languages

- C
- C++
- Pascal
- FORTRAN
- Java
- Perl
- Python

## Networking

ONC/NFS, TCP/IP, SunLink, Netware

## System Monitoring

- Sun Management Center
- · Oracle Solaris Web Start
- Solstice Domain Manager



- Solstice Enterprise Manager
- · Solstice Backup
- xVM Ops Center

## Value Added Software

- VERITAS File System
- VERITAS Volume Manager
- Oracle Solaris Cluster
- Sun HPC ClusterTools
- Sun Java Enterprise System

## **Environmental**

## AC Power

• 100–240 V AC 1-phase (50/60 Hz), 12 A per power cord, two power cords

#### Pluc

• NEMA-L6-20P (U.S.) or IEC 309-IP44 (INTL) IEC 60320 C19 connector

## Receptacle Type

• IEC 60320 C20

## **Operating Temperature**

- 5°C to 35°C (41°F to 95°F): 0 to 500 m
- 5°C to 33°C (41°F to 91.4°F): 501 to 1,000 m
- 5°C to 31°C (41°F to 87.8°F): 1,001 to 1,500 m
- 5°C to 29°C (41°F to 84.2°F): 1,501 to 3,000 m

## Nonoperating Temperature

• -20°C to 60°C (-4°F to 140°F) 93% relative humidity, noncondensing

## Altitude

• Up to 3,000 m (9,842 ft.)

# Regulations

## Safety

 CSA60950-1-03, UL60950-1, IEC60950-1, 1(2001), GB4943-2001 Scheme with all national deviations

## RFI/EMC

- FCC Part 15, EN55022/CISPR22
- VCCI
- AS/NZS CISPR 22
- EN 300 386
- EN61000-3-2
- EN61000-3-3
- JISC61000-3-2
- KN22
- GB9254
- GB17625

## Immunity

- EN55024
- EN 300 386



• KN24

Regulatory Markings

• CE, FCC, VCCI, CSA/UL

Other Marks

• WEEE and Chinese RoHS

## **Key RAS Features**

- First Fault Isolation
- · Nondeferred error logging
- Predictive failure analysis
- Directive Maintenance
- Concurrent maintenance (partial)
- Environmental monitoring
- Dynamic CPU resource deallocation (fault detection, isolation, and recovery)
- Machine readable FRU-ID
- Rich check/recovery mechanism in processor
- ECC on address and data path
- · Dual power feed
- Extended-ECC memory, L1 and L2 cache line degradation

## **Dimensions and Weight**

• Height: 8.7 cm (3.43 in.)

• Width: 44 cm (17.33 in.)

• Depth: 65.7 cm (25.87 in.)

• Weight: 22 kg (48.50 lb.)

## Warranty

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

## Services

From design and implementation to support and management, Oracle provides an end-to-end portfolio of services designed to accelerate the alignment of IT infrastructure with business needs, optimize usage of IT assets, and contain costs. Oracle's expertise helps you address key data center challenges, including virtualization/consolidation, power, space and cooling optimization, planning and implementation, and ongoing maintenance and support. In addition, Oracle offers top-rated technical support for your Sun SPARC Enterprise M3000 server. 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 M3000 server, please visit oracle.com/sun or call +1.800.786.0404 to speak to an Oracle representative.





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