

Sun SPARC Enterprise® M3000 Server

Extreme Performance and
Mission Critical RAS at an Entry-level Price



The Sun SPARC Enterprise® M3000 server running the industry-leading 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!

Highlights

- Reduce power consumption, cooling, and floor space by up to 75% over legacy UltraSPARCIII 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 Solaris OS enables you to run older Solaris 8 and 9 apps without modification on 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

Keep pace with expanding needs

The Sun SPARC Enterprise M3000 server running the industry-leading 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 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 V445 servers by consolidating onto one M3000 server and reduce space and power consumption by 75 percent. In addition to its eco-efficiencies 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

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 boards (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, 6.4GB/sec stream (memory) (copy)

System bus • 4 GB/sec peak bandwidth (I/O)

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

Solaris 10 Resource Manager including Solaris Containers

Software

Operating system • Minimum OS support: Solaris 10 10/08 (Update 6 or higher)
Note: Solaris 10 10/08 (Updates 6, 7, 8) requires no patches for 2.75GHz support

Languages • C, C++, Pascal, FORTRAN, Java™, Perl, Python

Networking • ONC™/NFS™, TCP/IP, SunLink™, Netware

System monitoring • Sun Management Center
• Solaris Web Start
• Solstice Domain Manager
• Solstice Enterprise Manager™
• Solstice Backup™
• xVM Ops Center

Value added software

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

Environmental

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

Plug • 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 3000 m (9,842 ft.)

Regulations (meets or exceeds the following requirements)

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 C/US

Other marks • WEEE and Chinese RoHS

Key RAS features

First Fault Isolation, Non-deferred error logging, Predictive failure analysis, Directive Maintenance, Concurrent maintenance (partial), Environmental monitoring, Dynamic CPU resource de-allocation(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

H: • 8.7 cm (3.43 in.)

W: • 44 cm (17.33 in.)

D: • 65.7 cm (25.87 in.)

Weight: • 22 kg (48.50 lb.)

Learn More

For more info, visit sun.com/m3000

Remote services

Sun Connect

Services

From design and implementation to support and management, Sun 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. Sun's expertise helps you address key datacenter challenges, including virtualization/consolidation, power, space and cooling optimization, planning and implementation, and ongoing maintenance and support. Leverage Sun's more than 25 years of relentless innovation and depth of expertise to help you architect and deploy a reliable, high-performance Sun SPARC Enterprise M3000 solution that gives you a competitive edge. Sun service offerings include installation, integrated hardware and OS support, training, eco/virtualization, consolidation, migration, managed services, and more.

Sun Microsystems, Inc. 4150 Network Circle, Santa Clara, CA 95054 USA Phone 1-650-960-1300 or 1-800-555-9SUN Web sun.com



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