

NEW POWER > Sun SPARC Enterprise M3000 Server



Overview

The Sun™ SPARC® Enterprise M3000 server is designed with a modular building block architecture that contains the following high-level components:

- Specialized system cabinets System motherboard containing the SPARC64™ VII processor and memory
- Four PCIe slots
- up to 32 GB memory with 4GB DIMM (8 DIMM Slots available)
- up to four SAS disk drives
- one internal DVD drive
- four Gigabit Ethernet ports
- an Extended System Control Facility unit (XSCFU)
- up to two Power supply units (PSU)

SPARC64 VII Multithreaded Processors

At the heart of the Sun SPARC Enterprise M3000 server is the new, dual-core and quad-core 2.52-GHz SPARC64 VII processor, which incorporates two simultaneous threads per core using a 65-nm Cu 10 technology. This processor comes with 64-KB of both Icache and D-cache per core. The processor comes with 6 MB L2 cache that is shared between the four cores. There is no external cache.

There are several performance enhancements available with this processor, which include:

- Faster Fused Multiply and Add (FMA) instructions
- A rich floating-point name register (48)
- A four write-port floating point register
- A large translation lookaside buffer (TLB)
- this processor runs at nearly twice the single-threaded performance of a 1.35GHz UltraSPARC IV processor

Documentation

<http://www.sun.com/servers/midrange/m3000/>

<http://www.sun.com/servers/midrange/m3000/datasheet.pdf>

Standard Configurations, Options and Prices

<http://tinyurl.com/59gdzx>

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