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USP-1

170/200 MHz UltraSPARC™

**SPARCengine Ultra™ 1/170
Compatible**

VME64 Engine



Themis' USP-1 is the highest performance uniprocessor SPARC-based VME engine available. The 200 MHz (322 SPECint92 estimated) UltraSPARC processor offers proven performance for a wide variety of applications including telecommunications, Federal Systems, and traditional VME embedded processing.

The USP-1 is comprised of two 6U VME boards; a Processor module and an I/O module, which provide the full functional equivalent of the Sun Microsystems Ultra 1/170 Workstation. The USP-1 incorporates the Tundra SCV64 VME64 interface. The SCV64 is located on the VSIC, an on-board VME-SBus Interface Module, which interfaces the SCV64 to the local SBus.

The USP-1's UltraSPARC architecture has performance enhancing features that increase bandwidth and reduce latency. A unique floating point register block load/store capability allows the operating system to directly access a page in memory without disturbing the cache memories. This is useful in many networking applications where extraordinary data throughput is required. The crossbar memory architecture supplies 600 megabytes/second of sustained bandwidth to accelerate database retrieval, audio, video, and imaging applications. The VIS Instruction Set provides up to 7x acceleration of common algorithms including imaging and graphics, video compression/decompression, audio, networking, and encryption. The USP-1 also has accelerated context switching capabilities which allows Solaris 2.5.1 to offer access times rivaling that of some real-time operating systems.



- 170/200 MHz UltraSPARC Processor
- 512 Kbyte Second Level Cache
- 128 Mbyte to 1 Gbyte DRAM using Expansion Memory Modules
- 1 Mbyte User FLASH Memory
- 2 SBus slots
- Dual Ethernet/SCSI 2-FAST Ports
- Keyboard/Mouse Port
- Centronics Port
- Floppy Port
- 16-bit Audio Port
- High Performance VME64 Interface
- Solaris 2.5.1



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