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New VME Engine puts the affordable power of Sun's New UltraSPARC™-IIe processor on a Single-Slot Computer Board

FREMONT, California -- December 18, 2000 - Themis Computer has announced the **USP-IIe**, a low-cost, highly-integrated VMEbus computer board, based on Sun Microsystems' new UltraSPARC™-IIe processor. Featuring multiple configurations designed to match the broadest range of high performance, demanding embedded applications, the new USP-IIe offers Graphics and PMC expansion, as well as high speed Ethernet and dual SCSI interfaces.

The USP-IIe is a member of the Company's "USP" family of ground-breaking, high performance UltraSPARC engines for embedded computing.

The USP-IIe is available in a cost-effective, single VME slot configuration, with one PMC slot, and in two and three slot configurations to allow system designers to best select the level of I/O and graphics that their application requires. An I/O expansion board adds 2 PMC extension slots, a second 10/100 Ethernet port, two additional serial ports, audio and front panel accessible rotary switch. A graphics companion board adds high performance, high-resolution 3D Graphics.

The USP-IIe combines the power of Sun Microsystems' new 500 MHz, 64-bit UltraSPARC™ -IIe processor with local PCI bus (PMC) peripheral controller slot and a high performance bridge. Support for Sun's Solaris 2.6, 7 and 8 operating system assures rapid application development and deployment.

"The USP-IIe is an ideal complement to our existing products. It offers full access to the world-leading 64-bit RISC technology in a cost-effective implementation," said William E. Kehret, president of Themis Computer. "This comes with a combination of enhanced I/O, high performance graphics, a small form-factor and low power dissipation. The USP-IIe is the ideal solution for many embedded and ruggedized applications."

Themis Computer is the only company to offer high-resolution graphics acceleration for three-dimensional visualization and imaging, in an optional two VME slot configuration. The Graphics companion board supports two graphics heads with performance comparable to Sun's Expert 3D graphics. "This is the first time that a graphics performance has been

combined with a truly cost effective UltraSPARC™ architecture,” said Mr. Kehret.

Workstation Features

Both the value and performance of the USP-IIe are complemented by a complete set of workstation I/O features. The USP-IIe offers two UltraSCSI-3 LVD ports with 160 Mybte transfer, two 10/100Base-T Ethernet ports, up to three PMC expansion slots, Sun and PS2, keyboard and mouse ports, up to six serial ports, an IEEE 1284 Parallel port, and audio support.

Significant features of the USP-IIe include:

- 400/500 MHz UltraSPARC™ -IIe 256 Kbyte Second Level Cache
- 64 Mbytes to 2 Gbyte SDRAM
- 256 Kbyte Second Level Cache
- Dual 160 Mbytes UltraSCSI-3 LVD Ports
- Dual 10/100BaseT Ethernet Port, one on the front panel of the base board, second on the front panel of I/O expansion board
- IEEE 1284 Bi-directional Parallel Port
- Up to six serial ports: two or four RS232 Serial Ports on base board; two additional serial ports on I/O expansion board
- Up to three PMC extension slots: one on base board, two additional PMC slots with optional I/O expansion board
- Sun and IBM PS/2 Keyboard and Mouse support
- Tundra Semiconductor Universe IIb PCI 64-VME64 Bridge
- Graphics expansion: Two video heads, up to 1920x1200 resolution
- Audio jacks on I/O expansion option front panel
- Front Panel accessible “hex” rotary switch on I/O expansion option
- Power consumption under 20 Watts in single slot configuration
- Support for Solaris 2.6, 7 and 8 operating systems
- Support for VxWorks 5.4 RTOS

All the Right Software

The USP-IIe supports Solaris, the industry's leading Unix operating system. Solaris 8, Sun's latest release, is today's preferred software development platform, with advanced multi-threading performance advantages, real-time characteristics, and a wide choice of off-the-shelf third party software. Solaris 2.6 and 7 availability insures a low risk migration path for legacy code.

For demanding real-time applications, the USP-IIe supports the latest operating system and development environment products from Wind River Systems, including VxWorks and Tornado.

The Themis USP Family

Themis is committed to providing the broadest range of high performance UltraSPARC™ -based VME single board computers for the embedded market. The family comprises the new USP-IIe, the USP-2, the world's only dual-processor UltraSPARC™ VME engine, the USPIIi-3v, a modular UltraSPARC-IIi VME engine, and the USPIIi-1v, a single-slot UltraSPARC™ IIIi VME engine with expandable I/O.

Price and Availability

List price for the USP-IIe begins at \$6500. Availability begins January 2001.

THEMIS COMPUTER is a leader and world-wide supplier of both VMEbus single board computers and systems. An ISO 9001 certified company; Themis Computer provides board and system level solutions, including software, support and worldwide customer service.

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