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Development Hardware

Product Name: **DS1003**
Platforms Supported: PC, Sun, HP
Devices Supported: TMS320C40

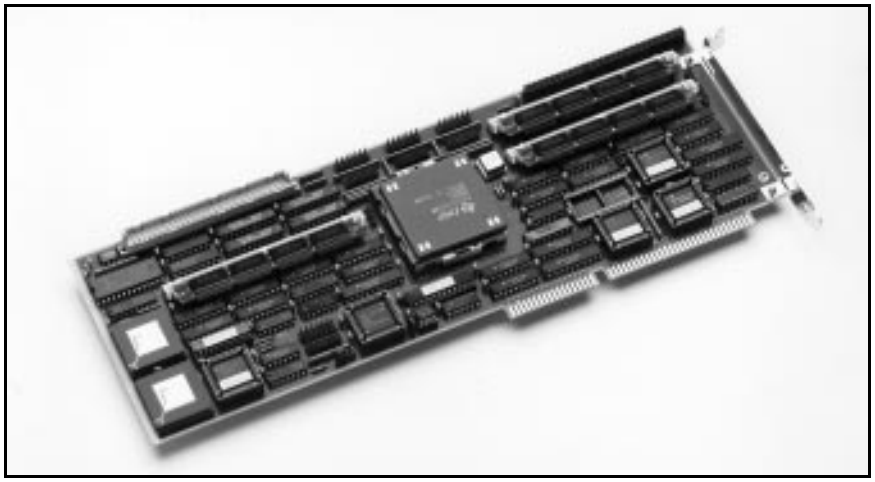
Features and Benefits

- Floating-point processor.
- 'C40 running at 50 MHz.
- Operates with user-selectable dSPACE I/O cards.
- Up to 768 KBytes zero-wait-state SRAM, expandable to 3 Mwords.
- PHS-bus interface with 16-Mbps transfer rate to I/O boards.

Product Description

dSPACE's higher-end processor board for modular development systems is built around the 'C40 floating-point DSP, with a 40-ns cycle time and 50 MFLOPS of peak computing performance. The DS1003 provides a powerful memory-mapped host interface, as well as a separate 32-bit wide PHS-bus interface to our I/O boards. It can be used as a base for both single or multiprocessor systems. On-board memory is expandable to 3 Mwords (32 bit). Separate busses for primary and global memory allow simultaneous access to local and global memory components for concurrent data and instruction fetch. The complete DSP memory is simultaneously accessible by the host and DSP. 8 kwords are built in as a true dual-port memory for concurrent DSP/host access. Six on-chip, byte-wide communication links on the 'C40 allow multiprocessor systems to be configured with virtually no computational limits.

All boards are standard ISA cards. For Sun and HP hosts, a network interface to an expansion box is required.



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