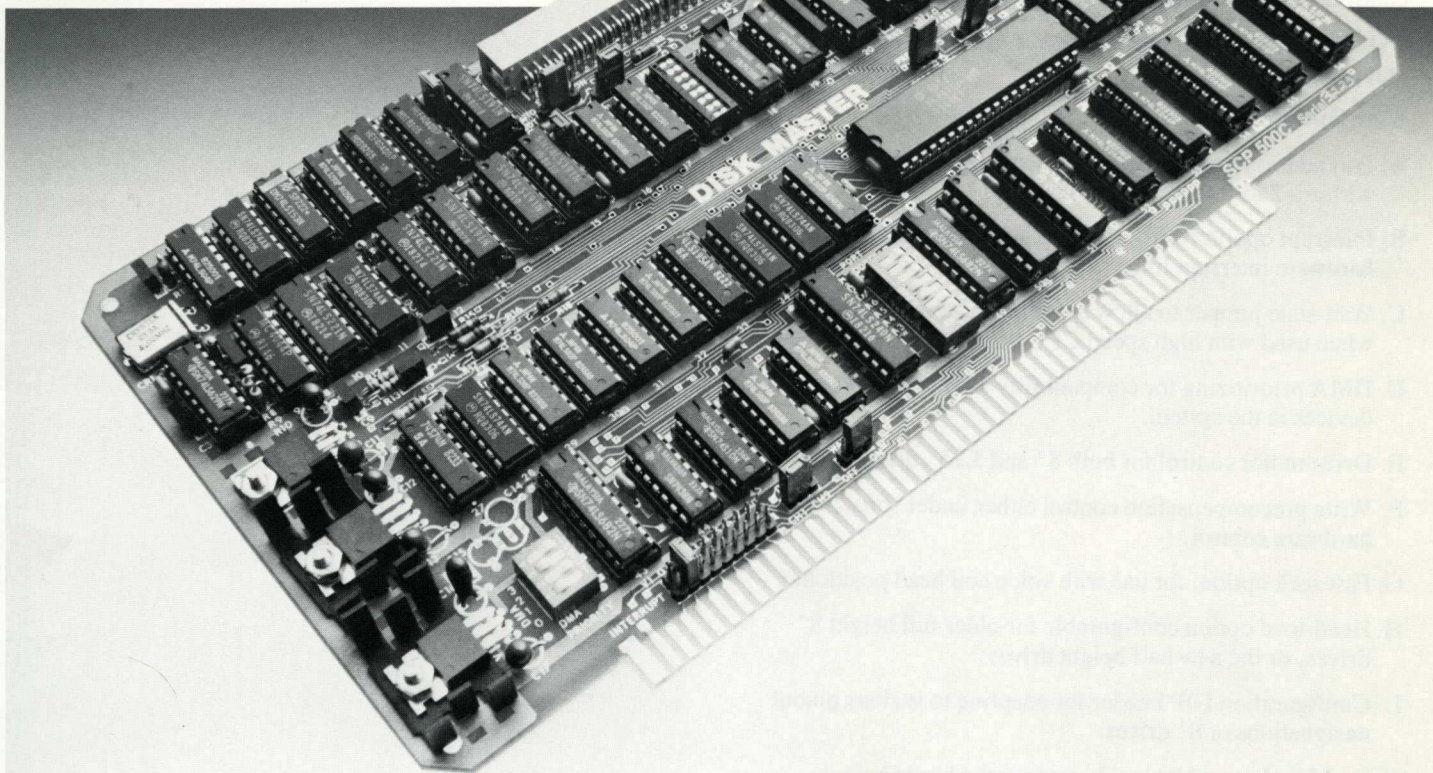


DISKMASTER™ FLOPPY DISK CONTROLLER

SCP-500



The Seattle Computer DiskMaster™ gives system designers a flexible, high performance floppy disk controller for the S-100 (IEEE-696) bus. The DiskMaster supports both 8" and 5.25" floppy disk drives.

As many as four 8" and four 5.25" drives, in any combination, may be controlled simultaneously by a single DiskMaster. This makes it easy to transfer data between 8" and 5.25" disks within the system.

A patent-pending digital data separator design provides unsurpassed data recovery reliability. This digital technique enhances data recovery reliability over older, less accurate analog techniques. As a result, the DiskMaster has a wider tolerance for the varying read/write data speeds of floppy disks from other systems.

FEATURES

- Handles up to eight floppy disk drives, four 8" drives and four 5.25" drives simultaneously, in any combination.
- Physically and electrically separate connectors for 8" and 5.25" drives to eliminate crosstalk and overloading of signal drivers.
- 100% compliance with IEEE-696 (S-100) standard.
- Complete hardware support for all types of 8" and 5.25" drives, including fast seek drives such as Persci. A configuration header is provided to handle different pin arrangements of 8" drives.
- Direct memory access capability when combined with the Seattle Computer DMA controller.
- Interrupt capability, supports the full interrupt structure per IEEE-696 Standard.
- Reads and writes all soft-sector single and double density formats including IBM 3740 and the IBM PC 5.25".
- A breakthrough in-data separator design for unsurpassed data-recovery reliability — patent pending.



SPECIFICATIONS

IEEE-696 Standard (S-100) — Fully compatible with the IEEE-696 standard in all functional specifications.

Controller Chip — Uses the popular Western Digital 1793 controller for reliability and high performance.

I/O mapped — Saves memory space over memory mapped designs.

User Options —

- A. Port address switch-configurable to any eight-port group within a 256-port address range.
- B. Interrupt option configurable to any of the IEEE-696 hardware interrupt lines.
- C. Wait-state jumper to allow automatic insertion of wait states when used with high speed CPU boards.
- D. DMA prioritizing for compatibility with other DMA devices in the system.
- E. Drive motor control for both 8" and 5.25" disk drives.
- F. Write precompensation control either under software or hardware control.
- G. Fast seek option, for use with voice coil head positioner.
- H. Head-load option configurable for older full height 8" drives, or the new half height drives.
- I. Configuration DIP header for adapting to various pinout designations of 8" drives.

Noise Margins — All signal inputs to the board have a minimum of 0.4V hysteresis at 25°C.

Power Requirements — +8V at 1.6 A; +16V at 90 ma. (At 25°C).

Operating Environments — 0°C to 70°C.

Reliability — The Seattle Computer DiskMaster board has been in production for about one year. The demonstrated performance to date indicates that a reliability rate in excess of 98% will be typical.

Limited Warranty Summary

When sold by Seattle Computer or through an authorized Seattle Computer dealer, this product is warranted to the end-user for a period of 90-days for both parts and labor. When sold to the end-user by an OEM, the warranty terms vary. Consult your OEM for specific warranty coverage. Seattle Computer offers repair service for its manufactured products beyond warranty coverage. This is a summary of the warranty. A complete warranty statement is printed in the product manual and is also available from Seattle Computer upon request.

ORDERING INFORMATION

Part No.: 050001 DiskMaster Disk Controller



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