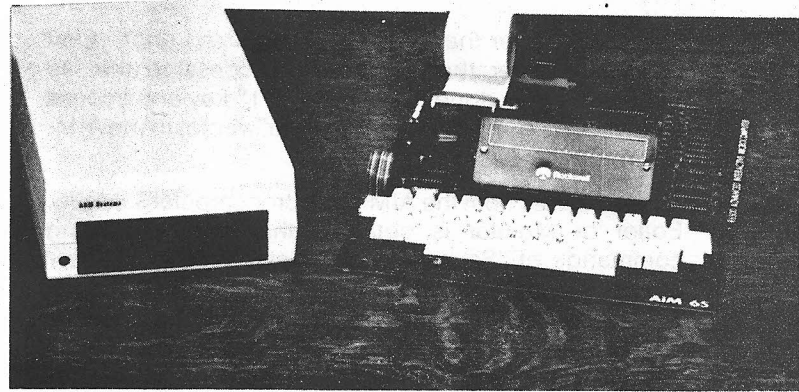# DATA SHEET

AIM-65 FLOPPY DISK SUBSYSTEM AH5050

The AH5050 offers a powerful yet inexpensive mass storage subsystem for the AIM 65 Microcomputer. It is fully compatible with the AIM 65's Editor, Assembler, Monitor, FORTH and Basic. Sequential, Random or Relative File types are supported. The AH5050 subsystem offers the capability of opening up to 10 files simultaneously, with features such as pattern matching and wild card file searches found only in larger systems. The file manager accessed through the "F1" key of the AIM 65 offers standard commands for Directory, Rename, Transfer, Delete, Format, Clear-plus special commands to run Command files.
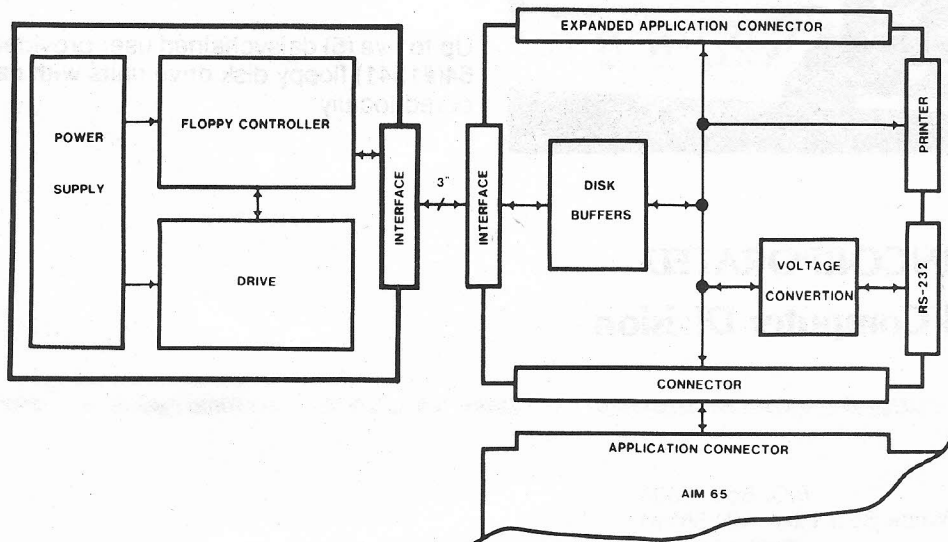
New BASIC and FORTH instructions such as OPEN, CLOSE, CHIN, CHOUT allow manipulation of disk data files during program execution. Other commands such as SAVEB/LOADB, store and retrieve BASIC or FORTH programs in binary form. This offers the user the capability to run BASIC programs like ordinary binary files even on power up. The AH5050 also includes Centronics and RS-232 compatible interfaces with supporting software.

FEATURES

- Fully compatible with the AIM 65 Microcomputer's BASIC, EDITOR, MONITOR, ASSEMBLER and FORTH

- Subsystem package includes intelligent controller, drive, power supply, case, cables, manual and software

- Added new commands to AIM BASIC and FORTH languages

- No motherboards or adaptor cards required. AIM 65 expansion connector remains free for other uses

- Compact size

- Centronics and RS-232 Interfaces

- Access to Sequential, Random and Relative type of files

- Wild card file searches

- Capability to open up to 10 files simultaneously

- File Manager commands:

Directory	Rename	Clear
Transfer	Merge	Initialize
Format	Scratch	Validate
Put	Run	

AH5050 FUNCTIONAL CAPABILITIES

The AH5050 Floppy Disk Subsystem is an inexpensive mass storage unit for the AIM 65. The AH5050 is designed for applications where low price is required, such as data acquisition, controllers, testers, etc. The AH5050 includes a floppy disk drive, intelligent floppy controller, power supply case, interface and software for the AIM-65 microcomputer.

The AH5050 is interfaced to the AIM-65 through the application connector using 5 lines of the User 6522 VIA.

The software for the AH5050 is initialized once upon power up. After the initialization access to the file management is done through the "F1" key and access to the files is done through the "user" vector in the AIM-65.

Access to files from the AIM-65 microcomputer's BASIC, Editor or Monitor is obtained through the existing commands of "Save / Load", "List / Read", "Dump / Load" respectively. Additional commands such as OPEN, CLOSE, CHIN, CHOUT, PRINT #, INPUT #, CMD, STATUS, SAVEB, LOADB; enhance the AIM BASIC and FORTH Languages so the user can manipulate sequential, Random or Relative Data files. BASIC and FORTH Programs can be saved and loaded in binary form. These binary files load very quickly since they are already in executable form. It is possible to automatically load and run a binary file upon power-up of the AIM. This virtually eliminates the need for storage of application programs in PROM.

The software opens and closes files automatically. The user has the capability to open up to ten files simultaneously.

SPECIFICATIONS

Storage

Total Capacity	174848 bytes per diskette
Sequential	168656 bytes per diskette
Relative	167132 bytes per diskette
Directory entries	144 per diskette
Sectors per track	17 to 21
Bytes per sector	256
Tracks	35
Sectors	683 (644 free)

Power Requirements

Voltage	100, 120, 220, or 240 VAC
Frequency	50 or 60 Hertz
Power	25 watts

Physical

Height	3.8 inches
Width	7.9 inches
Depth	14.7 inches

Miscellaneous Requirements

Free air operating Temperature: 0° to 55°C
Storage Temperature: +40° to 75°C
Operating humidity: 5% to 95% non-condensing
3" interface cable

Can be used with standard 5¼", single sided, single density soft sectored diskettes.

USERS' MANUAL

To obtain the User's Manual for the AH5050, ask for ABM document No. AL5051

ORDERING INFORMATION

An AH5050 subsystem consists of:

- AH5050-RC interface card with RS-232 and Centronics printer interfaces, manual, software in PROM residing at D000 (normal AIM-65 assembler socket) $250.00
- AH5050-A relocated assembler residing at B000 $65.00

Up to five (5) daisychained user provided Commodore 64(#1541) floppy disk drive units with cable to be procured locally.

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