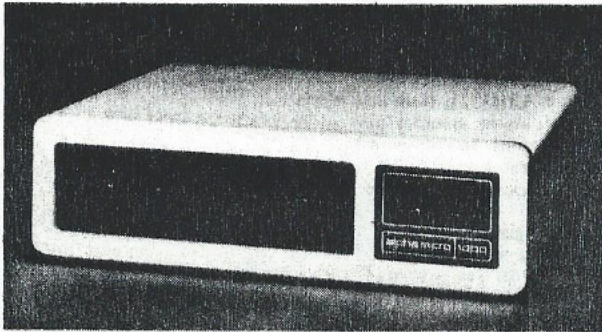


Alpha Micro AM-1000



The AM-1000 is a MC68000-based business computer that features up to 30 megabytes of hard disk storage, VCR back-up capabilities and the AMOS operating system.

BACKGROUND INFORMATION

Alpha Microsystems, 17881 Skypark North, P.O. Box 18347, Irvine, CA 92713. Telephone (714) 957-1404.

Alpha Micro designs, manufactures, and markets business computer systems and products that provide the user with a low-cost, high performance alternative to higher priced minicomputer systems.

Incorporated in March of 1977, Alpha Micro's first products were the AM-100, a 16-bit, S-100 bus-compatible CPU; and the Amos multi-user, multi-tasking, timesharing operating system. Since introducing the AM-100 and Amos, the company has steadily expanded its line of hardware and software, and now provides powerful, fully integrated small business computer systems. Alpha Micro now has more than 7,000 computer systems installed worldwide.

SYSTEM CHARACTERISTICS

The Alpha Micro AM-1000 is a multi-user, multi-tasking desktop computer. Developed around the Motorola MC68000 microprocessor, the computer is currently available in three models. All models include 128K bytes of RAM (expandable to 256K bytes) a video cassette recorder (VCR) interface, three serial I/O ports, a real time clock/calendar, and a choice of an integral 10 megabyte Winchester disk, a 5¼-inch floppy diskette combined with the Winchester disk, or two integral 5¼-inch floppy diskette drives. The AM-1000 can support from two to six users and a printer. Storage capacity can be expanded to more than 30 megabytes.

Current models: AM-1000VW; AM-1000VWF; AM-1000VFF.

Memory: 128KB-256KB RAM.

Storage capacity: 800KB-1.6MB diskette; 10MB-30MB hard disk.

Workstations: 1-6.

Base list price: suggested retail—includes CPU, 128KB RAM, disk storage, VCR interface, operating system, three languages. AM-1000VW—under \$10,000 w/10MB Winchester; AM-1000VWF—under \$12,000 w/10MB Winchester, one diskette drive; AM-1000VFF—under \$8,000 w/two diskette drives.

Typical list price: set by authorized dealers.

Popular options: from the vendor—additional memory boards, Winchester disk subsystems.

Principal programming languages: Basic, Pascal.

Principal applications software: complete range of industry application packages available from dealers.

First shipment: June 1982.

Number installed to date: 600.

Available through: over 200 dealers, OEMs and systems houses in the U.S.; distributors and dealers in 30 countries worldwide.

The VCR back-up capability used on the AM-1000 allows backup data to be transferred from the computer to a standard video tape using a standard video cassette recorder. The cassette copy is then transferable to Alpha Micro's larger systems.

The system's front panel contains most of the manual controls and indicators. These include a push-button System Reset key which causes a cold bootup sequence; three illuminated indicators—a Power lamp, a Run light, and a Parity Error warning; and a two-digit display Status indicator. The rear panel contains a dual voltage power receptacle (American and European); three 25-pin RS-232-C jacks; a 50-pin SASI bus connector for adding external drives; and three coaxial video jacks. The Video-In and Video-Out jacks connect to a video cassette recorder; the purpose of the third jack, Video I/O, is for a future capability.

The system comes bundled with AMOS/L, the Alpha Micro Operating System that includes AlphaBASIC and AlphaPASCAL, as well as word processing software and more than 150 utility programs. Fortran and Cobol will be available for use on the AM-1000 from Alpha Micro dealers. The use of AMOS/L on the system allows the desktop computer to utilize the more than 100 business applications programs that have been developed for the operating system over the last five years, and makes the AM-1000 software-compatible with the other members of the Alpha Micro 68000-based products.

Alpha Micro AM-1000

HARDWARE

PROCESSOR/MEMORY

Model: Motorola MC68000 (16-bits)
RAM: 128KB-256KB, one 128KB increment
ROM: 4KB-16KB
Processor options: 128KB memory expansion board

DISPLAY: none offered by the vendor; any RS-232-C compatible terminal with a cursor
Chars./screen: 1920; 80 characters x 24 lines
Graphics: can be supported

KEYBOARD: none offered by the vendor

DIRECT ACCESS STORAGE

Model:	AM-1001W/WW	integral (AM-1000 VWF, VFF)
Type:	5 1/4" Winchester	floppy diskette
Capacity/drive:	10MB/20MB	800KB
Drives/system:	up to 2	up to 2
Avg. access time:	98.3 milliseconds	—
Transfer rate:	333KBS	—
Interface:	SASI interface	SASI interface
Price:	established by dealers for add'l drive	one or two drives included w/system

PRINTER: none offered by the vendor; any RS-232-C compatible printer

DATA COMMUNICATIONS

Model: serial I/O ports
Trans. mode: full-duplex, asynchronous
Protocol: 2780, 3780, 3780 (forthcoming)
Ports: 3 standard; 4 port board optional
Line configuration: —
Speed: 50-19,200 bps
Interface: RS-232-C
Price: price established by dealers for add'l ports

OTHER I/O: none offered by the vendor

I/O ELECTRONICS

Structure: single board computer with three I/O ports; additional four port board optional

SOFTWARE

LANGUAGES

Basic: AlphaBASIC, bundled w/system
Pascal: AlphaPASCAL, bundled w/system
Assembler: Macroassembler, bundled w/system

OPERATING SYSTEM

Name: AMOS/L (bundled w/system)
OS minimum memory allocation: 24KB
Concurrent tasks: number limited only by the hardware configuration
Other functions: I/O device control, screen editing

UTILITIES

Sort: yes, standard
Text editor: yes, standard
Others: ISAM, screen editor, peripheral diagnostics, and more than 150 utilities, standard

DATABASE MANAGEMENT SYSTEMS: available from Alpha Micro dealers

COMMUNICATIONS SUPPORT: available from Alpha Micro dealers

APPLICATIONS PROGRAMS

Numerous applications software packages available from Alpha Micro dealers; catalog available

SUPPORT SERVICES

DOCUMENTATION

Range: about 40 manuals (\$3-\$35 each)

SUPPORT

Training & education: routine training at factory for dealers and third-party service personnel in hardware and software
Maintenance: dealers provide services to end-users; also, third-party maintenance agreements offered
Other: 24-hour call-in service which provides dealers and service members with the latest procedural and technical information

TERMS AND CONDITIONS

Lease terms: a variety of lease options are available
Discounts: none
Warranties: standard 120-day OEM contract on defective hardware
Software terms: all software is bundled with the system
Other terms: net 30 days available to qualified dealers ■