



A M - 1 0 4 2 E

B U S I N E S S C O M P U T E R

alpha micro

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SUPERIOR PERFORMANCE AND FLEXIBILITY

The typical Alpha Micro user finds that our systems perform even better than expected. Why? Because they do more than satisfy your present processing needs; each is designed to expand to accommodate future needs as well.

So it is with the AM-1042E. The system is built around the most advanced microprocessor in the industry—the 68000. It works much faster than other microprocessors, which means it can process efficiently for many users at the same time.

That's an important feature, since the AM-1042E can handle the needs of 26 users simultaneously.



So while one person runs an accounts payable program, others can do accounts receivable, payroll, and general ledger; while still more users do word processing, order entry, programming, or some other function.

The AM-1042E is also flexible in its memory capacity. You can start with 512KB—over 512 thousand characters of information—and expand to over three million characters. So as you add more users or require larger programs, you can easily increase the size of memory.

Long-term storage is important too. Here again the flexibility of the AM-1042E pays off. The system offers 60 megabytes—enough to store over 32 thousand pages of double-spaced text. If you need more disk storage, you just add more disk drives. The standard AM-1042E can expand to 240 megabytes. This means that when your business grows and you add more customers or carry more inventory, you can add disk storage easily and economically.

DON'T SPEND MONEY REDEVELOPING SOFTWARE

When you consider nothing more than multi-user capability, generous storage capacity, and expandability, it's easy to see that the AM-1042E is economically priced. But the most cost-efficient feature of the AM-1042E is that it gets along very well with all the other members of our computer family. Software that runs on the AM-1042E can also run on our desktop computer, as well as the larger systems—right up to the 400-megabyte AM-1092. So as your business grows, you can transfer your accounting, order entry, inventory, or other programs to a new and larger system **without** expensive reprogramming and time-consuming conversions. That's something else many companies don't offer.



EXTENSIVE SOFTWARE INCLUDING CP/M®

Hundreds of ready-to-run business packages have been developed exclusively for Alpha Micro computers—everything from auto parts maintenance to travel agency management programs. AlphaWRITE™, Alpha Micro's word processing package, is available to satisfy your word processing needs; and the AM-1042E can run BASIC, FORTRAN, COBOL*, and assembler programming languages.

But that's only part of the software available for the AM-1042E. With our CP/M option, you can also use most of the vast library of CP/M

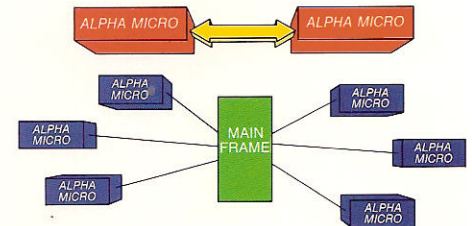


programs sold today in computer stores throughout the world. That includes everything from financial spreadsheet programs to data base managers.

Talk with your Alpha Micro dealer about getting the software that best fits your particular business requirements.

DATA COMMUNICATIONS

The power of the AM-1042E goes beyond your office. With our bisynchronous communications option, the AM-1042E can communicate with other Alpha Micro systems, with most IBM mainframes, and with other computers that use IBM's 2780/3780 communications protocols. You can transfer practically any kind of information, including text, computer programs, and ASCII files. And, you can take advantage of the processing power of large mainframe



computers, while continuing work on the AM-1042E. The network may be as simple as two Alpha Micro systems in a single location, or as sophisticated as a large mainframe hosting Alpha Micro systems distributed around the country.

CLOCK AND CALENDAR

For convenience, the AM-1042E keeps track of the time of day and the date. This information can be

*COBOL for the AM-1042E will be available soon.



displayed on the video display terminal and can be printed on reports automatically, so you always know when the printing occurred. Using a back-up battery, the clock and calendar keep running even if electrical power to the computer stops.

VIDEO CASSETTE BACKUP

In addition to the conventional streamer tape backup, we have an innovative alternative that offers increased storage capacity at a reduced cost. With our VCR interface, you can copy up to 100

megabytes of data to a standard video cassette tape, using a standard video cassette recorder. The same cassette copy can then be stored on the shelf or transferred to any other Alpha Micro system. An added convenience is night-time backup. The AM-1042E can automatically copy your data to a video tape cassette after hours, every evening.

EVERYTHING A COMPUTER'S SUPPOSED TO BE— EXCEPT EXPENSIVE

When it comes to price/performance, our systems surpass the biggest names in the industry. It's very simple. We offer more computing capability for less money. So why pay more for a system that can't do the job as well as the AM-1042E?

Talk with your local Alpha Micro dealer, or give us a call at 800-854-8406 or collect at 714-641-0386.

S P E C I F I C A T I O N S

TYPE: Table-top microcomputer

CENTRAL PROCESSING UNIT

TYPE: AM-100/L using MC68000 microprocessor

CLOCK SPEED: 8 megahertz

MEMORY ADDRESSING: 24 bits; 16MB direct memory addressing range.

DATA TRANSFER: 16 bits

REGISTERS: 32-bit (8 data, 7 address, 2 stack)

ADDRESSING MODES: 14 address modes for both source and destination addressing

INTERRUPTS: 8 vectored levels

DMA CAPABILITY: 8 channels

REAL TIME CLOCK: Calendar/time-of-day clock with battery backup; programmable interval timer.

POWER REQUIREMENTS: 115 volts @ 5 amps or 230 volts @ 2.5 amps.

INPUT/OUTPUT STANDARD:

Two RS-232 asynchronous serial ports.

INPUT/OUTPUT EXPANSION:

With addition of I/O boards, expandable to 26 serial ports.

MEMORY STANDARD:

512KB. Byte parity is standard.

MEMORY EXPANSION:

Expandable to 3.072MB. Memory may be added in 128KB or 512KB increments.

MASS STORAGE DRIVE:

8" Winchester disk

CAPACITY: 60 megabytes (formatted)

ACCESS TIME: 45 milliseconds (average)

LATENCY: 8.3 milliseconds (average)

TRANSFER RATE: 800KB/second

MASS STORAGE EXPANSION:

The standard system can support 3 additional disk drives for a total of 240 megabytes of storage. More controller boards and disk drives can be added for a maximum capacity of 1.44 gigabytes.

DATA BACKUP:

- 1) 20 megabyte streamer tape or,
- 2) VCR interface for backup to video cassette using standard video cassette recorder

SYSTEM DIMENSIONS:

HEIGHT: 10.5 inches (26.67cm)

WIDTH: 19 inches (48.26cm)

DEPTH: 30 inches (76.20cm)

ENVIRONMENT:

TEMPERATURE: 60 to 85°F (16 to 29°C)

HUMIDITY: 20% to 80% humidity (non-condensing)

ALTITUDE: -1000 to +7000 feet (-304 meters to +2133 meters)

EMI: Meets FCC Class A emission standards

SOFTWARE AVAILABLE SEPARATELY:

OPERATING SYSTEM: AMOS/L™ —multi-user, multi-tasking, timesharing, disk-based system; three-pass assembler; linkage editor; symbol file generator; symbolic debug routine; support file management.

CP/M: With addition of AM-330 board

LANGUAGES: AlphaBASIC®, FORTRAN 77, COBOL*, macro-assembler

COMMUNICATIONS: AlphaRJE™, offering 2780/3780 bisynchronous communications, with addition of AM-330 board.

WORD PROCESSING: AlphaWRITE

*COBOL for the AM-1042E will be available soon.

S U M M A R Y O F F E A T U R E S

- Can Support 26 Users
- Memory Expands To 3MB
- 60MB Winchester Disk Storage
- Storage Expands To 480MB
- Word Processing Available
- Extensive Software Including CP/M Available
- Supports BASIC, FORTRAN, COBOL*, Assembler
- Data Communications Available
- Software Can Be Used On All Other Alpha Micro Systems **Without** Modification.

*Available soon.