

SAGE II®
THE NEW GENERATION
MICRO IS HERE



NEVER BEFORE HAS SO MUCH BEEN OFFERED FOR SO LITTLE

No 8-bit computer at any price comes close to matching the incredible performance of the Sage II.

This new generation computer is based on the 16-bit, interrupt-driven, 8MHz 6800 microprocessor, capable of 2 million instructions per second, no wait states.

Although the Sage II's computing power and memory capacity are extraordinary by today's microcomputer standards, it fits in the space of an ordinary micro.

Better yet, it fits micro budgets.

In the final analysis, the Sage II provides the best price/performance ratio of any micro on the market today.

THE END OF THE "RAM CRAM" ERA

Surprisingly, 64K is still the standard for microcomputers selling new today.

The Sage II, however, comes equipped with at least 128K.

In other words, the Sage II's minimum configuration has twice as much RAM capacity as the configuration of most 8-bit machines.

What's more, it can be purchased with as much as 512K internal RAM.

In apparent defiance of the laws of physics, 5 times the typical RAM capacity has been comfortably put into a 1.5-cubic-foot cabinet—with room left for up to two built-in disk drives.

The photo at the right is the actual size of the Sage II computer.

RAM DISK—FASTER THAN A SPEEDING WINCHESTER

Sage II's optional RAM Disk feature permits an area of RAM to be allocated for use as a pseudo disk device.

Files may be transferred to and from the RAM Disk (device #11) just as if it were an actual disk drive. But since there are no moving parts, there are no seek delays, and the transfer rate is 1 Mbytes/sec. The RAM Disk provides a unique environment for very quickly executing the files, editor, compiler or user programs. RAM Disk dramatically increases the performance of any comparable disk assigned activity.

LOAD A 20K PROGRAM QUICKER THAN YOU CAN SAY "20K PROG . . ."

It takes about a second to say. But it actually takes less than that to load, using our 5 1/4" disk drive.

Strange but true, our standard disk drive can load programs into a Sage II faster than they could be loaded into some other micros by a Winchester.

That's because the Sage II has no wait states, during RAM access, to slow things down.

SPEED THAT MAKES ORDINARY MICROS LOOK LIKE THEY'RE STANDING STILL

The 6800 is a chip that really flies.

Most micros utilize 8-bit microprocessors such as the 8080, Z-80, and 6502, to name a few.

But the Sage II is built around the new, state-of-the-art 6800 microprocessor. It's a true 16-bit micro, with 11-bit internal architecture, and 16 Mbytes of addressing capability.

That's one reason the Sage II is in a speed class with famous minicomputers like the DEC PDP-11/60.

Of course, there are other microcomputers that have 16-bit microprocessors. But none are as fast as the Sage II, and most are a whole lot slower.

The fact is, the Sage II makes more than one mainframe blink.

HUNDREDS OF PROGRAMS

By now, the awesome capabilities of the Sage II have probably captured your undivided attention.



But somewhere in the back of your mind there's a nagging question: Software?

Frankly, software availability is usually a legitimate concern whenever new computers are introduced. Often it's wiser to settle for less capability and more software support.

The Sage II, however, is already supported beautifully.

In fact, there are more than 127 reasons for programs that run on the Sage II as if written specifically

for it. And we mean popular and powerful programs like ProCalc, LogiCalc, LogiQuest Database and Financial Partner, to name a few.

That's because it comes equipped with the Version 4.1 UCSD p-System operating system developed by Softech Microsystems in cooperation with Sage.

THE POWERFUL, PORTABLE p-SYSTEM IS STANDARD

The 8-bit microcomputers of the 70s left a legacy of software for the 16-bit Sage II of the 80s.

By designing the Sage II for integration of the p-System Pascal, "the universal operating system," we've made it possible for users to run programs originally written for the older machines.

The p-System is described as a portable operating system, meaning that with its help software written for one kind of machine can be transported to another.

The actual mechanics of the transfer are as follows: The original program is compiled

PROCESSOR

SA



into a fast, efficient pseudo-code which is compatible with the

Sage II's p-Machine interpreter.

This p-Code can be generated from programs written in not just one but three different languages—Pascal, BASIC, and Fortran.

And besides opening up a world of software, the p-System gives you a world of useful operating features as described in separate literature.

THE PRICE WON'T MAKE YOU FLINCH

Now for the news you've been needlessly dreading.

The base price of the Sage II, including 128K onboard RAM, plus one built-in 320K disk drive, plus the extraordinary p-System operating system (which normally retails for over \$1,400 alone), is only \$3,680.

Add a dumb terminal, and you've got one smart buy.

MORE PERFORMANCE PER DOLLAR THAN ANY COMPUTER WE KNOW OF

Since there are many factors and configurations to consider, it's difficult to compare computers one on one. By the time you've read the specifications for two or three similar machines, they sort of blur together in your mind.

Nevertheless, we believe the Sage II represents such an obvious technological and price breakthrough that its specs will speak for themselves. Loud and clear.

So please take the time to compare the Sage II specifications on the back page with those of any computer you want.

Chances are, you won't want any other computer after that.

For the location of your nearest dealer, or to order your Sage II direct, just give us a call today.

Sage Computer Technology is performance.



SAGE II

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SAGE II

PROCESSOR

- 8 MHz 68000 microprocessor
- 2 million operations per second
- Multi-coin processor status LED
- ALLUC is interrupt-driven but optionally polled

SAGE BUS

- Two 80 pin ribbon cables
- 24 address bits (will address 16 Mbytes)
- 16 data bits
- Non-DMA
- Asynchronous operation

MEMORY

- 128K to 1.7 Megabyte of RAM on board
- Byte level parity error detection on all RAM
- No wait states needed for RAM access
- 9K (optionally 32K) EPROM
Firmware contains self-test, DEBUGGER, and bootstraps

FLOPPY DRIVE

- One or two 5 $\frac{1}{4}$ " floppy disk drives
- 40 or 80 tracks per surface
- Double-sided and double-density
- 320K to 1.3 Megabyte
- Will load 30K program in one second

TERMINAL PORT

- RS-232C serial port
- Defined as data communication equipment
- Software defined baud rate, 50-19.2K baud

MODEM PORT

- RS-232C serial port
- Defined as data terminal equipment
- Software defined baud rate, 50-19.2K baud
- Fully supported modem control lines
- Ringing detect supported

PRINTER PORT

- CENTRONICS compatible parallel port
- Can be used as a general purpose 14-bit software input, output or control port

IEEE-488 INTERFACE

- Implemented in hardware with TDS994A controller and buffers
- Software definable characteristics
- Address and control masks defined by DIP switch or software

UCSD* OPERATING SYSTEM

- Pascal, FORTRAN 77, BASIC and 68000 Macro Assembler
- Screen-oriented editor
- Filter and other utilities
- Interrupt-driven with printer spooling
- RAM disk

MISCELLANEOUS

- Real-time clock
- Separate task scheduler with 11.5 μ sec resolution

POWER AND PACKAGING

- 80-watt switching power supply
- Forced-air cooling with quiet 20 CFM fan
- Low power consumption, typically 22 watts (dormant off)
- Size—5 $\frac{1}{2}$ by 12 $\frac{1}{2}$ by 14 $\frac{1}{2}$ inches
- Weight—18 lbs.
- Modular construction
- Easy servicing

WARRANTY FACTS

The Sage II is designed and built to meeting specifications. The heat generated is so low it would be reasonable to expect good reliability without the use of a fan, but we equip the Sage II with one anyway. This is indicative of the care taken to ensure long, trouble-free operation.

Each unit is burned in for 24 hours prior to shipment. Consistent with its quality manufacture, the Sage II comes with a full one-year warranty.

Peripherals supplied by Sage and manufactured by others are warranted by us for the manufacturer's warranty term.

SAGE[®]
COMPUTER TECHNOLOGY

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