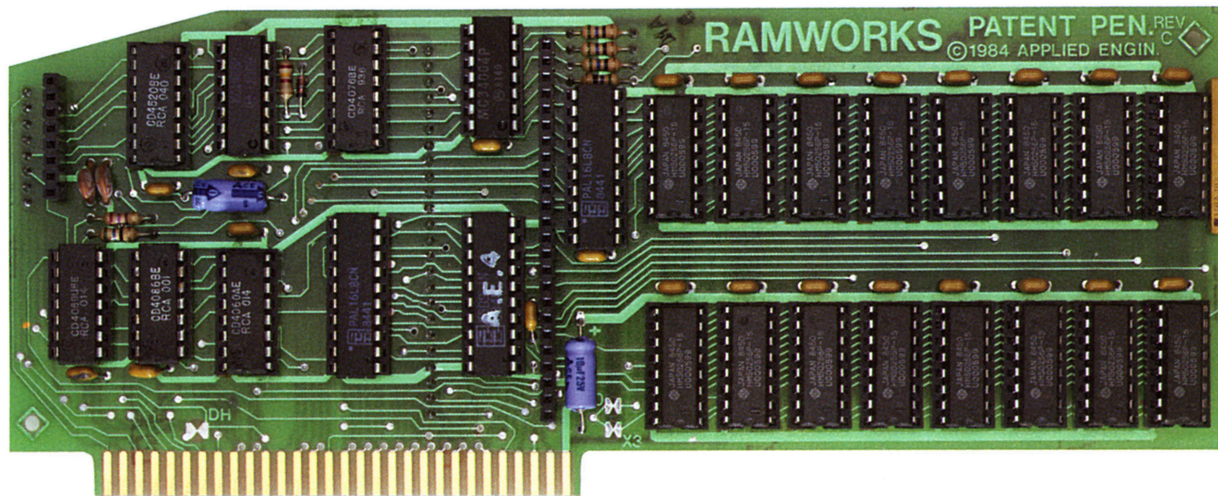


# RAMWORKS

COMPATIBLE WITH IIe



Applied Engineering has solved the most common problem that computer owners have—running out of memory. RAMWORKS is the perfect solution because it offers the widest and biggest memory sizes available anywhere.

RAMWORKS—A card that plugs into the Apple IIe auxiliary slot and functions EXACTLY like Apple's extended 80 column card (in fact, a 128K RAMWORKS actually costs less than Apple's 64K extended card) but with RAMWORKS you get more memory, 80 column text, a 3-year warranty and most importantly, room to grow without using more slots. A design so advanced there's a patent pending on it. If you have an IBM, we suggest you do what everybody does, trade it in on a IIe.

With the optional RAMDRIVE™ software RAMWORKS can also be used as an ultra high speed RAM disk. Depending on the memory size of the RAMWORKS card, you can emulate up to 4 disk drives with one RAMWORKS card. All at about 20 times faster than mechanical floppy drives and about 5 times faster than a hard disk.

RAMWORKS can be used as a solid state disk with DOS 3.3, PASCAL, CP/M and PRO-DOS (up to 1,900 blocks free)!

RAMWORKS can be purchased in a wide range of sizes and is user upgradeable using either 64K RAMS or the new 256K RAMS. In fact, RAMWORKS is the only auxiliary slot card on the market that will allow the new 256K RAMS to be used. If you already have an extended 80 column card, no problem. Just unplug the 64K RAMS and plug them into the RAMWORKS for an

additional 64K. An RGB option is also available, you can order it with your RAMWORKS card or add it on at a later date.

RAMWORKS saves you time, money, slots and hassle. You'll have additional memory NOW and in the future.

### It's Appleworks' Best Friend

A 64K RAMWORKS will add another 46K to your available desktop memory, a 128K RAMWORKS will add another 91K, a 256K RAMWORKS will add another 182K, and a 512K RAMWORKS will add another 364K and a 1 meg RAMWORKS will give you nearly an 800K DESKTOP. But RAMWORKS does more than just increase the desktop memory (as if that weren't enough). With RAMWORKS, Appleworks will be able to run up to 20 times faster. And now only RAMWORKS does this all automatically with no need for any optional software. Appleworks is a very large program. So large, in fact, that it won't all fit in a 128K Apple, so Appleworks has to constantly go back to the disk drive for more data. When you have a RAMWORKS card, you can have enough memory so that the entire Appleworks program can be loaded into the computer. This greatly increases the speed at which Appleworks operates because the disk drive operates at 300 RPM. APPLEWORKS operates at the speed of light!

### It's Compatible

The simple fact is that RAMWORKS is compatible with more off-the-shelf software than any other RAM card. RAMWORKS is 100% compatible with ALL soft-

ware written for the Apple 80 column and extended 80 column card. Additionally, RAMWORKS can emulate other RAM cards so software written for other cards will run without modification. Software written for RAMWORKS will not work on other cards. We can emulate others, but others can't emulate us.

**It's Easy**

RAMWORKS just plugs in and clear instructions show how to plug more memory chips into RAMWORKS as your needs increase.

**It's Popular**

Popularity translates into great software support because software companies can't support all RAM cards, they can only support the ones their customers are likely to own.

**It's Reasonable**

Applied Engineering's years of experience and wide product line really pays off, and because of our high sales levels we buy most of our I.C. chips factory direct. So don't let our low prices fool you, they're caused by high volume production. That's why we can offer the most memory for the least money.

**It's In Color**

For only \$129 an RGB option can be added to RAMWORKS to give you double high resolution color graphics and sharp 80 column text on any Apple compatible RGB monitor. The RGB option does not take up another slot, but rather it plugs into RAMWORKS. You can order the RGB option with your RAMWORKS or add it on at a later date.

**It Corrects Mistakes**

Let's say you bought some other RAM card (and that's a mistake) and your RAM card is not being recognized by Appleworks, Advanced VisiCalc, FlashCalc or other programs and you want RAMWORKS. No problem. The memory chips on the card that you have now, which is where most of the money is, can be unplugged and then plugged into the expansion sockets on RAMWORKS.

**It's Got It All**

- 80 Column Text
- Double high resolution graphics (with or without RGB option)
- User Expandable to 1 Megabyte
- Can use 64K or 256K RAMS in any combination
- Adds Memory to Appleworks
- Accelerates Appleworks
- 100% Compatible with All IIe software
- RAM Disk software available, compatible with PRO-DOS, DOS 3.3 and PASCAL (\$29.00)
- RAM Disk available for CP/M (\$29.00)

- Visicalc preboot available (\$29.00)
- RGB option
- Takes only one slot
- 3 year no hassle warranty

Ramworks™ with 64K.....	\$179
Ramworks™ with 128K.....	\$249
Ramworks™ with 256K.....	\$299
Ramworks™ with 512K.....	\$399
Ramworks™ with 1 MEG.....	\$649
RGB Option (can be added later).....	\$129

**LOW COST SOFTWARE OPTIONS**

**Ram Drive IIe**

Ram Drive IIe will give you a high speed solid state disk drive. The Ram Drive IIe software features audio-visual access indicators, easy setup for turnkey operation, and easy menu driven documentation. The program can be modified and is copyable. If you have a 64K RAMWORKS, Ram Drive IIe will act as half a disk drive. If you have a 128K RAMWORKS, Ram Drive IIe will act as a full disk drive. As you go past 128K of memory, RAMWORKS will act as multiple disks, so all one megabyte can be as a solid state disk. Either way, your programs will load and save over 20 times faster. Ram Drive IIe is compatible with APPLESOFT, PRO-DOS, DOS 3.3, and PASCAL. The disk also includes a high speed RAM copying program. Ram Drive is another disk drive only 20 times faster and no whirring, clicking or waiting! **\$29**

**CP/M Ram Drive IIe**

CP/M Ram Drive is just like the Ram Drive IIe, only for CP/M. CP/M Ram Drive IIe runs on any Z-80 card that runs standard CP/M, i.e. Applied Engineering Z-80 Plus or Microsoft Soft Card. CP/M Ram Drive will dramatically speed up the operation of most CP/M software because CP/M normally goes to disk fairly often. Fast acting software like dBase II, Wordstar and Turbo Pascal becomes virtually instantaneous when used with CP/M Ram Drive. **\$29**

**VC IIe Expander**

VC IIe Expander gives owners of Visicalc IIe and Advanced Visicalc IIe increased storage. When used with VC IIe you'll get 141K workspace (128K RAMWORKS or larger required). When used with Advanced VC IIe you'll get 131K with a 128K RAMWORKS, 253K with a 256K RAMWORKS and 437K with a 512K RAMWORKS. **\$29**



and C.O.D. 214/241-6060

# NEW RAMWORKS™ CARD BREAKS THE MEMORY BARRIER

We openly admit that one megabyte is probably more memory than you need TODAY, but what about TOMORROW? Let's look at the history. When the Apple first came out, 4K made most users happy but soon they wanted 16K, then 48K, then 64. When the IIe was introduced, Apple made it with 64K on board and another 64K on a plug-in card (the extended 80 column card) for a total of 128K. Now many programs require 128K minimum and still many are running out at 128K.

The answer? RAMWORKS—A card that plugs into the Apple IIe auxiliary slot and functions EXACTLY like Apple's extended 80 column card (in fact, a 128K RAMWORKS actually costs less than Apple's 64K extended card) but with RAMWORKS you get more memory, 80 column text and most importantly, room to grow without using more slots. If you have a IIc or an IBM, we suggest you do what everybody does, trade it in on a IIe.

Applied Engineering has solved the most common problem that computer owners have—running out of memory. RAMWORKS is the perfect solution because it offers the widest and biggest memory sizes available anywhere.

You can utilize this RAM memory to expand Apple Works\*\* and VisiCalc. RAMWORKS can also be used as an ultra high speed RAM disk. Depending on the memory size of the RAMWORKS card, you can emulate up to 4 disk drives with one RAMWORKS card.\* All at about 20 times faster than mechanical floppy drives and about 5 times faster than a hard disk.

RAMWORKS can be used as a solid state disk with DOS 3.3, PASCAL, CP/M, and PRO-DOS (up to 1,900 blocks free)!

RAMWORKS can be purchased in a wide range of sizes and is user upgradeable using either 64K RAMS or the new 256K RAMS. In fact, RAMWORKS is the only auxiliary slot card on the market that will allow the new 256K RAMS to be used. If you already have an extended 80 column card, no problem. Just unplug the 64K RAMS and plug them into the RAMWORKS for an additional 64K. A RGB option is also available, you can order it with your RAMWORKS card or add it on at a later date.

RAMWORKS saves you time, money, slots and hassle. You'll have additional memory NOW and in the future.

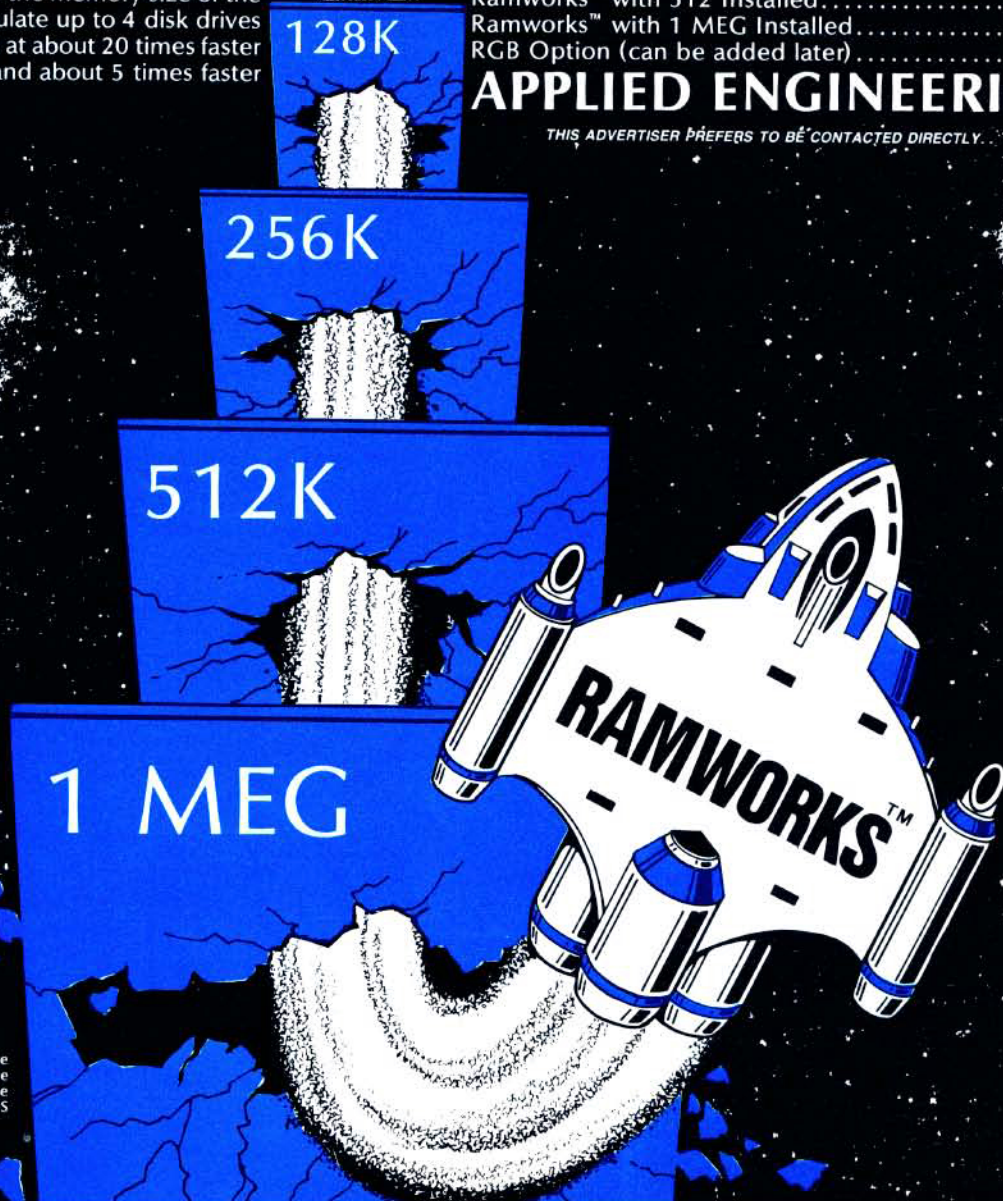
RAMWORKS memory expansion for today and tomorrow. Send check or money order to: APPLIED ENGINEERING, P. O. Box 798, Carrollton, TX 75006. Texas residents add 5% sales tax. Add \$10.00 if outside U.S.A.

Call 214/492-2027, 8 AM to 11 PM, 7 days a week. MasterCard, VISA & C.O.D. welcome. No extra charge for credit cards.

Ramworks™ with 64K Installed .....	\$179
Ramworks™ with 128K Installed .....	\$249
Ramworks™ with 256K Installed .....	\$449
Ramworks™ with 512K Installed .....	\$799
Ramworks™ with 1 MEG Installed .....	\$1499
RGB Option (can be added later) .....	\$129

## APPLIED ENGINEERING

THIS ADVERTISER PREFERS TO BE CONTACTED DIRECTLY.



\*Requires optional low cost software.

\*\*Apple Works and VisiCalc will automatically recognize 64K memory of the RAMWORKS card, low cost software is available from Applied Engineering so that Apple Works and VisiCalc will recognize all RAMWORKS memory.