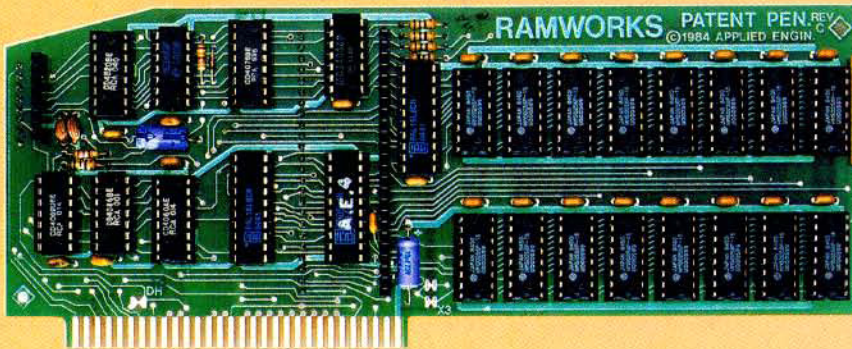


# RAMWORKS™



**“In an industry as dynamic as the personal computer industry, it’s inevitable that computers will be built with more and more memory. It’s equally inevitable that newer, faster, more powerful software will be written to take advantage of that extra memory. Where does that leave you?”**

**Direct quote from new Apple IIe owners manual.**

If you just want to play games with your Apple or write small BASIC programs, 128K is probably enough memory. But if you’re using your Apple IIe for a serious purpose, you’re going to need more memory. Applied Engineering has the answer: RAMWORKS. With RAMWORKS, you won’t have to split files into several small pieces just to fit them into memory. You’ll have ALL your data on line ALL the time.

RAMWORKS will automatically expand Appleworks, Magicalc, Magic Office System, PRODOS, Visicalc and hundreds of other programs. The simple fact is that RAMWORKS is compatible with more off-the-shelf software than any other RAM card.

A 64K RAMWORKS will ADD 46K to whatever you already have on your available desktop memory, a 128K RAMWORKS will ADD 91K, a 256K RAMWORKS will ADD 182K, a 512K RAMWORKS will ADD 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.

When you have a RAMWORKS card, you can have enough memory so that the entire Appleworks program will be loaded into the computer. This greatly increases the speed at which Appleworks operates because the disk drive operates at 300 RPM. RAMWORKS operates at the speed of light!

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

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.

RAMWORKS has taken the “waiting” out of computing. Floppies and hard disks are OK for long term storage. But they fall far short as on line storage. If you are using high level languages, spelling checkers, spread sheets, word processors, databases and other disk intensive software, RAMWORKS will save you time and make you more productive.

## Now There’s No Reason To Wait To Stop Waiting

Applied Engineering is passing along the cost savings that we’ve acquired through automated production. We’re lowering the price on the more popular sizes of RAMWORKS, so now there’s no reason to wait to increase your productivity. You’ll be amazed at what you can do!

### Features:

- 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

### Call (214) 241-6060

9 a.m. to 11 p.m. 7 days a week or  
Send check or money order to:  
P. O. Box 798  
Carrollton, Texas 75006  
MasterCard, Visa and C.O.D. welcome.  
No extra charge for credit cards.  
Texas residents add 5% sales tax.  
Add \$10.00 of outside U.S.A.



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**“WE SET THE STANDARD”**

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# 12 Good Reasons Why RAMWORKS™ Is The Best Expansion Card For Your Iie

**1 APPLEWORKS MEMORY** Even though Ramworks enhances and expands a VAST ARRAY of other programs, Appleworks is our claim to fame. A 64K Ramworks will ADD 46K to your available desktop memory, a 128K Ramworks will ADD 91K, a 256K Ramworks will ADD 182K, and a 512K Ramworks will ADD 364K and a 1 meg Ramworks will give you nearly an 800K desktop. And it's all done automatically! When you plug in more memory chips into your Ramworks card, Appleworks will find them—automatically. Ramworks also increases the maximum number of records from 1350 to 4300.

**2 APPLEWORKS SPEED AND POWER** 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. If you buy a 256K or larger Ramworks card, Appleworks will automatically load itself in Ramworks. This greatly increases the speed at which Appleworks operates by eliminating all that nasty, time consuming disk access on Drive 1. These are but a few reasons why we say that Ramworks is Appleworks best friend.

**3 EXPANDABILITY** Ramworks was designed with the future in mind, as your needs increase, so can Ramworks. Clear instructions show you how to plug in more memory (up to 1 meg).

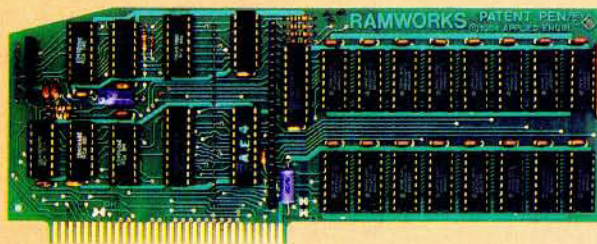
**4 SPEED** Today, as programs become more and more sophisticated, they inevitably become larger. And many of today's best selling programs (like Appleworks) won't fit in a 128K Apple, so many of these new larger programs continually go back to disk in search of more data. With Ramworks, you can have enough memory so that the entire program will be loaded into Ramworks' memory. This greatly increases the speed of software because your disk runs at 300 RPM, but Ramworks operates at the speed of light!

**5 COLOR** The same slot that's used for memory expansion is also the slot that's used for RGB color display, so all those lesser memory cards of yesterday make you decide in advance if you want RGB color. Only Ramworks lets you decide later to add RGB color. For only \$129, an RGB option can be added to Ramworks to give you double high resolution color graphics and 80 column text. All with a razor sharp, vivid brilliance that's unsurpassed in the industry. The RGB option does not waste another valuable slot, but rather plugs into the back of Ramworks and attaches to any Apple compatible monitor. Remember, you can order the RGB option with your Ramworks or add it on at a later date.

**6 COMPATIBILITY, OF THE SOFTWARE KIND** Programs like Appleworks, Magic Office System, Flashcalc, The Spread Sheet, Diverse-A-Dos, Supercalc, Magicalc and many others automatically recognize all or most of Ramworks memory (512K is average). 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 software 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.

**7 COMPATIBILITY, OF THE HARDWARE KIND** Unlike others, Ramworks is fully compatible with hardware add on's from other companies, like the Sider and Profile hard disks. And Ramworks was designed in accordance with the official expansion rules defined by Apple so you don't have to worry about compatibility problems. As you continue to expand and make your Apple more powerful with other expansion products from Applied Engineering, you'll appreciate how each product has extra features designed to work with Ramworks and other products to give you a total performance package that is more powerful than the sum of its parts.

**8 IT SELLS THE MOST** 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. And software companies appreciate the fact that when they write software for Ramworks in the Iie,



they're also writing software for our memory expansion card for the Iie, Z-RAM. And our customer list reads like the Who's Who of Apple computing with just about every software company in the land buying one, including Apple Computer (in the hundreds), Rupert Lissner, and Steve Wozniak (we didn't give one to Mr. Wozniak just to use his name, 2 one meg Ramworks were paid for at full price).

**9 IT'S FROM APPLIED ENGINEERING** Unlike most of the competition, we only make accessories for Apple, so we'll never spend your money on IBM product research. 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. Guaranteed!

## 10 IT'S GOT IT ALL

- ✓ Sharp 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% Compatibility with All Iie software
- ✓ RAM Disk software available, compatible with Applesoft, PRO-DOS, DOS 3.3, and PASCAL (\$29)
- ✓ RAM Disk available for CP/M (\$29). (This program is included with our CP/M card)
- ✓ Visicalc preboot available (\$29)
- ✓ RGB option
- ✓ Takes only one slot
- ✓ 3 year no hassle warranty



**11 THE PATENT OFFICE HAS ONE** There are many advanced features on Ramworks, but two parts of the design are so advanced we applied for patents. One patent application deals with our ultra fast, ultra smooth 80 column screen display, and the other patent application deals with our ingenious way of dramatically reducing the power and heat of memory chips and improving reliability at the same time.

**12 HERE TODAY, HERE TOMORROW** In the seven years we've been making products for the Apple, we've seen a lot of companies come and go. Although nothing is forever, we're growing, expanding and we're profitable. And we are totally committed to Apple computing, which means you'll never run out of things to do with Ramworks. Or for that matter, reasons to buy one.


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

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C.O.D. welcome. No extra charge for credit cards. Texas Residents add 5% sales tax. Add \$10.00 if outside U.S.A.

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# How to get the most bytes out of your Apple.



Read why Steve Wozniak recommends RamWorks™ expansion cards.

The machine that Woz built is a powerful business computer. AppleWorks gave it a potent 1-2 combination. Now, RamWorks has added the knock out punch. With RamWorks expand the total memory of your IIe up to an incredible 2.5 MEG. Your AppleWorks will no longer be limited by the amount of factory supplied RAM. And you'll be able to perform virtually any application you want with far greater speed and ease.

## How AppleWorks works best with RamWorks.

RamWorks plugs into the IIe auxiliary slot and acts just like Apple's extended 80 column card. If you buy a 256K or larger card, AppleWorks will automatically load itself into RamWorks. This dramatically increases AppleWorks' speed because it effectively eliminates time required to access disk Drive I. Now, switch from word processing to spreadsheet to database management at the speed of light. AppleWorks responds the moment your fingers touch the keyboard.

But AppleWorks has certain internal limits, independent of available memory. Fear not. Only RamWorks removes those limits with a proprietary, easy to operate program that "patches" onto the boot disk in seconds. Only RamWorks increases the maximum number of records available to you from 1,350 to over 5,000. And only RamWorks actually increases the number of lines permitted in the word processing mode.

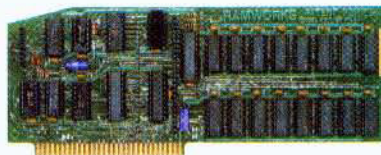
Plus, when you create an AppleWorks file larger than your disk capacity, only RamWorks automatically segments it to the appropriate size. RamWorks then prompts you to insert more disks, so you can save any size file on regular floppies or hard disk.

## The most friendly, most expandable card available.

RamWorks is compatible with more off-the-shelf software than any other RAM card. Popular programs like Magic Office System, Flashcalc, The Spread Sheet, Diversi-DOS, Supercalc 3A, Magicalc, etc. (And hardware add-ons like Profile and Sider hard disks.) Fact is, RamWorks is 100% compatible with all software written for the Apple 80 and extended 80 cards. In addition, RamWorks can emulate other RAM cards, so you can use



*"I wanted a memory card for my Apple that was fast, easy to use, and very compatible; so I bought RamWorks."*



programs written for them without modification.

RamWorks was designed so you could take full advantage of future developments in 16 and 32 bit microprocessors. As your needs grow, so can RamWorks. A handy expansion connector allows the latest and greatest co-processor cards to access RamWorks' memory. And allows you to piggyback another 2 MEG. Clear instructions show you how to plug in more memory.

For only \$129 you can add an RGB option to your RamWorks and get double high resolution color graphics. All with a super sharp brilliance that's unsurpassed in the industry.

## More features than you can shake a mouse at.

A word from the Woz should be sufficient. Because there's only one card like RamWorks. Imagine how you will benefit from these features: • 15 DAY MONEY BACK GUARANTEE • Sharp 80 column text (with or without RGB option) • Double high resolution graphics (with or without RGB option) • EXPANDABLE TO 2.5 MEGABYTES • Can use 64K or 256K RAMs in any combination • Adds memory to AppleWorks • Co-processor connector • Accelerates speed of AppleWorks • 100% COMPATIBLE WITH ALL IIe SOFTWARE • RAM disk software available (compatible with Applesoft, PRO-DOS, DOS 3.3 and PASCAL—\$29) • RAM disk available for CP/M (\$29;

included with our CP/M card) • RGB color option • Takes only one slot • FIVE-YEAR NO HASSLE WARRANTY.

RamWorks with 64K (\$179); 128K (\$219); 256K (\$249); 512K (\$319); 1 MEG (\$519); 2.5 MEG (\$1599). CALL 214/241-6060 TO ORDER YOUR RamWorks TODAY. (9 a.m. to 11 p.m. 7 Days, or send check or money order to Applied Engineering. MasterCard, Visa and C.O.D. welcome. Texas residents add 5 1/2% sales tax. Add \$10.00 outside U.S.)

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