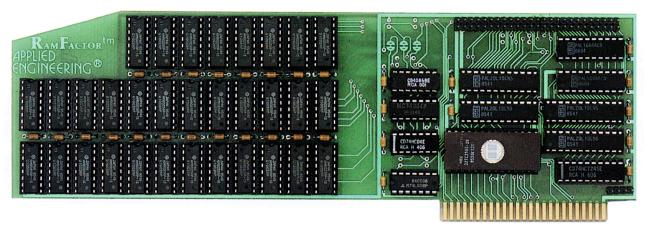
### COMPATIBLE WITH IIe and II+



### All the performance, speed, and software compatibility of RamWorks™ in a slot 1 through 7 card

That's right! Now Applied Engineering offers you a choice. While RamWorks is the clear winner for the auxiliary slot in a IIe, RamFactor is the standard for slots 1 through 7. Now anyone with an Apple II+, Franklin, or Apple IIe preferring to use slots 1 through 7 can now enjoy the speed and performance that until now was only available with RamWorks.

With RamFactor, you'll be able to instantly add another 256K, 512K, or a full 1 meg on the main board and up to 16 meg with additional piggyback card. And since virtually all software is automatically compatible with RamFactor, you'll immediately be able to load programs into RamFactor for instantaneous access to information. You'll also be able to store more data for larger word processing documents, bigger data bases, and expanded spreadsheets.

#### Very Compatible

All the leading software is already compatible with RamFactor. Programs like AppleWorks, Pinpoint, BPI, Managing Your Money, Dollars and Sense, SuperCalc 3A, PFS, MouseWrite, MouseDesk, MouseCalc, Sensible Speller, Applewriter IIe, Business Works, Report-Works, Catalyst 3.0 and more. And RamFactor is fully ProDos, Dos 3.3, Pascal 1.3 and CP/M compatible. In fact, no other memory card (RamWorks excepted) is more compatible with commercial software.

### **AppleWorks Power**

There are other slot 1-7 cards that give AppleWorks a larger desktop, but that's the end of their story. But RamFactor is the only slot 1-7 card that increases AppleWorks internal memory limits, increasing the maximum number of lines permitted in the word processor, and RamFactor is the only standard slot card that will automatically load AppleWorks into RAM dramatically increasing speed and eliminating the time required to access the program disk, it will even display the time and the date on the AppleWorks screen with any ProDos clock. RamFactor will automatically segment large files so they can be saved on 51/4", 31/2", and hard disks. All this performance is available to anyone with an Apple IIe or II+ with an

80 column card. RamFactor, no other standard slot card comes close to enhancing AppleWorks so much.

#### True 65C816 16 Bit Power

RamFactor has a built-in 65C816 CPU port for direct connection to our IIe 65C816 card for linearly addressing up to 16 meg for the most powerful 16 bit applications. (II+ 65C816 card under development).

# **Powerful Program Switcher**

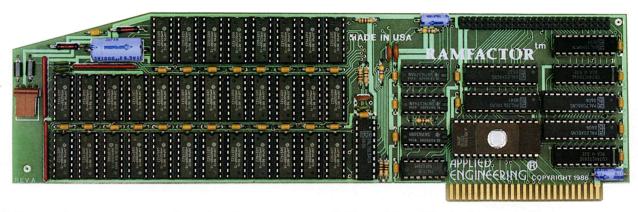
With RamFactor, you can organize memory into multiple work areas and switch between them. Each work area can contain different programs and even different operating systems. And with our Battery Back-up option, you can have permanent storage for up to 20 years.

#### **FEATURES:**

- Up to 16 meg total memory, 256K to 1 meg on main board. Up to 16 meg with additional memory on piggyback card.
- Fully Apple II Memory Expansion compatible
- Compatible with Apple IIe, II+ and Franklin
- Battery back-up option allows you to turn on your Apple and run your favorite programs in less than 1 second!
- Automatically recognized by ProDos, DOS 3.3, Pascal and CP/M
- Built-in RamDrive<sup>™</sup> software
- Built-in linear addressing 16 bit co-processor port
- Built-in self diagnostic software
- Automatic expansion with AppleWorks 1.3 or later
- Allows Apple II+ and IIe to run your AppleWorks without buying additional software
- Accelerates AppleWorks
- Fits any I/O slot except slot 3
- Fully socketed and user upgradeable
- Much, much more

| RamFactor with 256K     | \$239 |
|-------------------------|-------|
| RamFactor with 512K     | \$289 |
| RamFactor with 1 MEG    | \$389 |
| RamFactor with 2-16 MEG | CALL  |
| Battery Back-up Option  | \$179 |
| 65C816 16 Bit Card      | \$159 |

# **COMPATIBLE WITH IIe, II+ and IIGS**



# All the performance, speed, and software compatibility of RamWorks™ in a slot 1 through 7 card

That's right! Applied Engineering offers you a choice. While RamWorks is the clear winner for the auxiliary slot in a IIe, RamFactor is the standard for slots 1 through 7. Anyone with an Apple II+, Franklin, Laser 128, Apple IIe or IIGs preferring to use slots 1 through 7 can enjoy the speed and performance that until now was only available with RamWorks and Gs-RAM.

With RamFactor, you'll be able to instantly add another 256K, 512K, or a full 1 MEG on the main board. And since virtually all software is automatically compatible with RamFactor, you'll immediately be able to load programs into RamFactor for instantaneous access to information. You'll also be able to store more data for larger word processing documents, bigger data bases, and expanded spreadsheets.

## **Very Compatible**

All the leading software is already compatible with RamFactor. Programs like AppleWorks, Pinpoint, BPI, Managing Your Money, Dollars and Sense, SuperCalc 3A, PFS, MouseWrite, MouseDesk, MouseCalc, Sensible Speller, Applewriter IIe, Business Works, Report-Works, Catalyst 3.0 and more. And RamFactor is fully ProDos, Dos 3.3, Pascal 1.3 and CP/M compatible. In fact, no other slot 1-7 memory card is more compatible with commercial software.

### **AppleWorks Power**

There are other slot 1-7 cards that give AppleWorks a larger desktop but, that's the end of their story. RamFactor is the only slot 1-7 card that increases AppleWorks internal memory limits, increasing the records in the database and the maximum number of lines permitted in the word processor, and RamFactor is the only standard slot card that will automatically load AppleWorks into RAM dramatically increasing speed and eliminating the time required to access the program disk. It will even display the time and the date on the AppleWorks screen with any ProDos clock. RamFactor will automatically segment large files so they can be saved on 51/4", 31/2", and hard disks. All this performance is available to anyone with an Apple IIe, IIgs, or II+ with an 80 column card. RamFactor, no other standard slot card comes close to enhancing AppleWorks so much.

# The "Instant On" Apple

With the RamCharger battery back-up option, RamFactor will retain programs and data during power failures or even when you turn your computer off. And be-



cause RamFactor plugs into slots 1-7, it's the only memory card that can cold boot an Apple without using slow floppy or hard disks. An available "Y" cable allows one RamCharger to power two RamFactors.

# **Powerful Program Switcher**

With RamFactor, you can organize memory into multiple work areas and switch between them. Each work area can contain different programs and even different operating systems. And with our Battery Back-up option, you can have permanent storage for up to 20 years.

#### **FEATURES**

- 256K to 1 MEG on main board. Expansion connector for possible future expansion to 16 MEG.
- Fully Apple II Memory Expansion compatible
- Compatible with Apple IIe, IIGS, II+, Franklin and Laser 128
- Battery back-up—turn on your Apple and run your favorite programs in less than 1 second!
- Automatically recognized by ProDos and DOS 3.3, Pascal, and standard CP/M
- Built-in RamDrive<sup>™</sup> and ProDrive<sup>™</sup> software—a true RAMdrive not disk caching
- Systems are directly bootable from RamFactor if desired
- Built-in self diagnostic software
- Automatic expansion with AppleWorks 1.3 or 2.0
- Allows Apple IIe, IIGs and II+ to run your AppleWorks without buying additional software
- Accelerates AppleWorks
- Fits any I/O slot except slot 3
- Fully socketed and user upgradeable
- 5 year no hassle warranty

| RamFactor with 256K    | <b>\$239</b> |
|------------------------|--------------|
| RamFactor with 512K    | \$289        |
| RamFactor with 1 MEG   | \$369        |
| "Y" cable              | \$24         |
| Battery Back-up Option | \$179        |
| 65C816 16 Bit Card     | \$159        |

# Compatible with IIe, II+ and IIGS



### RamFactor

Up to 1 MEG on card



## RamFactor 4 MEG Expander

Up to 4 MEG on card

Now you can have a slot 1 through 7 card with up to 5 MEG on one slot

Now anyone with an Apple II+, Franklin, Laser 128, Apple IIe or IIGs preferring to use slots 1 through 7 can now enjoy the speed and performance that they've been waiting for.

With RamFactor, you'll be able to instantly add another 256K, 512K, or a full 1 MEG on the main board and an expansion connector can address an additional 16 MEG of memory for possible future expansion. Since virtually all standard software is automatically compatible with RamFactor, you'll immediately be able to load programs into RamFactor for instantaneous access to information. You'll also be able to store more data for larger word processing documents, bigger databases, and expanded spreadsheets. And with the battery back-up option, you can switch on your Apple and your favorite software will be up and running in just a few seconds.

## **Very Compatible**

All the leading software is already compatible with RamFactor. Programs like AppleWorks, Pinpoint, SuperCalc 3a, Sensible Speller, and many others. And RamFactor is fully ProDOS, DOS 3.3, Pascal 1.3 and CP/AM compatible. In fact, no other slot 1-7 memory card is more compatible with commercial software.

# **AppleWorks Power**

There are other slot 1-7 cards that give AppleWorks a larger desktop, but that's the end of their story. RamFactor is the only slot 1-7 card that increases AppleWorks internal memory limits, increasing the maximum number of records in the database and lines permitted in the word processor, and RamFactor is the only standard slot card that will automatically load all of AppleWorks into RAM dramatically increasing speed and eliminating the time required to access the program

disk, it will even display the time and date on the AppleWorks screen with any ProDOS clock. RamFactor will automatically segment large files so they can be saved on 5.25" disks. All this performance is available on the Apple IIe, 64K II+, Franklin, or Laser 128 when used with an 80 column display. RamFactor, no other standard slot card comes close to enhancing AppleWorks so much.

### "Electronic Hard Disk"



battery back-up option, the new low power RamFactor will retain programs and data for over 10 hours

during power failures or even when you turn your computer off. When power returns, RamCharger automatically recharges the battery to full charge. With power from your wall outlet, Ram-Charger will back-up your RamFactor card's RAM memory indefinitely. And because RamFactor plugs into slots 1-7, it's the only memory card that can cold boot an Apple without using slow floppy or hard disks. An accessory "Y" cable allows one RamCharger to power two fully expanded RamFactors for more than 4 hours.

# **Powerful Program Switcher**

With RamFactor, you can organize memory into multiple work areas and switch between them. Each work area can contain different programs and, with proper formatting, even different operating systems. Now you can switch from one program to another or even switch from AppleWorks to DOS 3.3 to CP/AM to Pascal 1.3 to ProDOS in under a second. And with our battery back-up option, you can have permanent storage for up to 20 years.

## Features:

- 256K to 1 MEG on main board. Expansion connector for possible future expansion to 16 MEG.
- Fully Apple II Memory Expansion compatible in II+ and IIe, RAM disk only in IIGS
- Compatible with Apple IIe, II+, IIGS, Franklin and Laser 128
- Battery back-up option allows you to turn on your Apple and run your favorite programs in just a few seconds
- Can be configured to recognize ProDOS, DOS 3.3, Pascal 1.3, and standard CP/AM
- Built-in RAM drive software (a true RAM disk not disk caching)
- Systems are directly bootable from RamFactor if desired
- Diagnostic software included
- Automatic expansion with Apple-Works 1.3 or 2.0
- Allows Apple II+ and IIe to run your AppleWorks without buying any additional software
- Accelerates AppleWorks
- Displays time and date on the AppleWorks screen with any ProDOS clock
- Fits any I/O slot except slot 3
- Fully socketed and user upgradeable
- 4 MEG RamFactor Expander option available
- 5 year warranty parts and labor

| RamFactor with 256K              | \$269 |
|----------------------------------|-------|
| RamFactor with 512K              | \$389 |
| RamFactor with 1 MEG             | \$629 |
| "Y" cable                        | \$24  |
| Battery Back-up Option           | \$179 |
| RamFactor 4 MEG Expander         |       |
| with 1-4 MEG                     | CALL  |
| RamFactor Enhancement Kit-       | -     |
| Power reduction for old revision |       |
| RamFactors                       | \$20  |