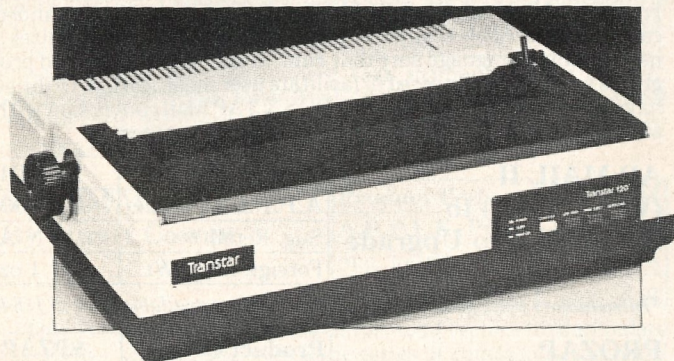


A.P.P.L.E.

**WINTER
PRODUCT
CATALOG**
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(Effective January 15, 1984)

NEW PRODUCTS



TRANSTAR 120 LETTER QUALITY PRINTER

Product Code	HTR120
A.P.P.L.E. Price	\$559.00
Sug. Retail	\$599.00
Foreign Ship. Wt.	N/A

A 19 pound, transportable, parallel letter quality printer that generates superior print quality and is the size of a briefcase. The Transtar 120 offers 14 characters per second (CPS) in Shannon text speed producing superscript, subscript, underlining and a bold face. This printer also offers an automatic single sheet loading and carries a 1.75K buffer. Requires parallel interface.

PANASONIC CT-160 COMPOSITE COLOR MONITOR

Product Code	HPANMO
A.P.P.L.E. Price	\$279.00
Sug. Retail	\$399.95
Foreign Ship. Wt.	N/A

A 10" composite color computer display incorporating a unique Dual Mode capability. The CT-160 features a front panel switch that changes the display from a full color unit for color graphics or video games to a black and white (monochrome) for text mode. The Panasonic CT-160 is a 5 MHz high contrast black matrix color (40 x 25 character) display with video/in and video/out for daisy-chain capabilities. Unit is light weight (22 lbs), UL listed and comes with built in speaker.

RIGHT NOTCH By Hi Tech

Product Code	HRIGNO
A.P.P.L.E. Price	\$15.00
Sug. Retail	\$19.95
Foreign Ship. Wt.	2 oz

A handy tool that will double your disk storage capabilities. One bite from "Right Notch" and a sharp, clean square notch is positioned in just the right place allowing you to use the reverse side of the disk for your storage needs. Suggest use of program: Scrambler (SSCRAM) to check back sides of diskettes.

ORDER TOLL-FREE
1-800-426-3667
Outside Washington Only

PROMODEM 1200 By Prometheus

Product Code	HPRMOD
A.P.P.L.E. Price	\$450.00*
Sug. Retail	\$495.00
Foreign Ship. Wt.	N/A

A high performance modem at an affordable price. The ProModem 1200 operates at a 0-300 and 1200 baud, meeting Bell 103 and 212A standard. It also recognizes the complete command set of the popular Hayes SmartModem 1200, assuring compatibility with existing communication software. The intelligent dialer saves you time and trouble. It can redial busy numbers automatically, wait for a second dial tone as you access a long distance dialing service and switch freely between pulse and tone; it even switches automatically to pulse dialing if your telephone exchange doesn't recognize tone dialing. A jack is provided for your telephone and the telephone is automatically locked out when the ProModem 1200 is in use, thus preventing loss of data. You will also appreciate the clean front panel display angled just right for easy viewing, the help menu, access to switch settings without opening the case and no bulky external power supply to fall out of your wall outlet. A built-in realtime clock can be set and read from your computer. Comes with automatic answering, built in diagnostics, status lights and a speaker for monitoring the progress of your dialing.

The standard unit comes with a modular cable for connecting ProModem 1200 to the telephone company and a DB-25S jack for the RS-232C cable going to your computer. You must supply the RS-232C serial interface in your computer and the RS-232C cable for connection between interface and modem. Suggest Versacard (HVRC) for use with this unit.

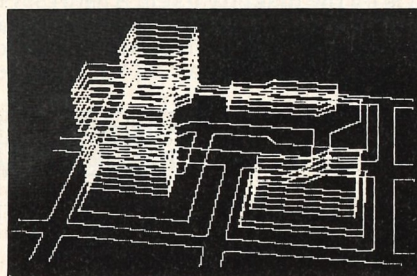
For expansion capabilities, an options package is due to be released at a later date.

**Available February 15, 1984.*

IMAGINATOR By Townsend Microware

Product Code	SIMAGI
A.P.P.L.E. Price	\$60.00
Sug. Retail	\$129.95
Foreign Ship. Wt.	1 lb, 12 oz

An exciting new series of professional quality 3 D GRAPHICS programs. IMAGINATOR will let anyone interested in computer graphics create, edit, manipulate and display 3 D graphics images.



You do not have to be a programmer to use IMAGINATOR. Three dimensional objects can be created without drudgery using IMAGINATOR's powerful graphics editor. Once the objects have

NEW PRODUCTS

been created, they can be manipulated and displayed in a variety of ways using IMAGINATOR's unique and highly versatile set of interactive display commands. Images can be displayed on the Apple II hi-res screen, dumped to printer or saved to disk as binary picture file. Works with the Apple II, II+ or IIe and requires 48K and one disk drive. Program is unprotected and includes complete documentation.

IMAGINATOR SOURCE LISTING

Product Code	PIMAGS
A.P.P.L.E. Price	\$30.00*
Sug. Retail	N/A
Foreign Ship. Wt.	1 lb

Over 100 pages of commented source listing for 3 D program: IMAGINATOR. Lets user see program logic flow, how graphics were done, complete source listing for the true computer hacker.

*Available March 1, 1984.

DIRECTORY TITLE WRITER By Val J. Golding

Product Code	STITWR
A.P.P.L.E. Price	\$15.00
Sug. Retail	N/A
Foreign Ship. Wt.	2 oz

A DOS 3.3 utility that lets you easily create elaborate and fancy catalog titles. Type inverse, flash, and lower case directly from the keyboard. Program comes complete with documentation.

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These new software packages are another in a series of excellent, reasonably priced (\$12.50 each) A.P.P.L.E. software. **All documentation is on the diskette itself.** A hard copy can be easily made by using the file dump routine found on program disks. All 11 Value-soft programs can be purchased together for \$100.00 in special #5 on page 15 of this catalog. All Value-soft programs will be available 2/15/84.

CATER KILLER By Jeff Koftinoff

Product Code	SCATKI
A.P.P.L.E. Price	\$12.50
Sug. Retail	N/A
Foreign Ship. Wt.	2 oz

Cater Killer is a multi-level action arcade game that can be played with keyboard or joystick providing hours of enjoyment for young and old alike. The scenario is that you are alone in a world populated by Cater Killers which are very hazardous to your health. You must take food away from the baby Cater Killers and if you get all eight foodstuffs, you advance to the next level. There

NEW PRODOS PROGRAMS

All ProDOS programs require 64K RAM.

APMAIL. PRO By Ken Kashmarek, D.D. Redhed and F.W. Merchant

Product Code	SAPMPR
A.P.P.L.E. Price	\$32.50*
Sug. Retail	N/A
Foreign Ship. Wt.	3 oz

A new enhanced version of A.P.P.L.E.'s excellent mail data base program: AP MAIL II (VERSION 3.0) to run on the expanded capabilities of Apple Computer's ProDOS. AP MAIL.PRO utilizes a new machine language sort that runs nearly 400% faster and programs are also renumbered to facilitate user modification. Utilities have also been provided for easy DOS 3.3 AP Mail conversion with additional fields for the search and sort subroutines.

AP MAIL II (Version 3.0) to AP MAIL.Pro Upgrade

Product Code	FUPDI
A.P.P.L.E. Price	\$10.00
Sug. Retail	N/A
Foreign Ship. Wt.	1 oz

*Introductory price good thru 3/31/84. Product available after 2/1/84.

PROZAP By Gary Charpentier

Product Code	SPZAP
A.P.P.L.E. Price	\$22.50*
Sug. Retail	N/A
Foreign Ship. Wt.	3 oz

A new utility uses intrinsic ProDOS routines to read, edit and write any ProDOS block or DOS 3.3 sector all from the ProDOS environment. The disk also contains a utility for dump to disk, printer or monitor, a hex or hex/ASCII listing or disassembly with a search routine for hex or ASCII bytes. Complete with documentation for ProZap only, not ProDos.

*Introductory price good thru 3/31/84. Product available after 2/1/84.

are three screens and several levels.

DISK ANALYZER 1.3 By Ronald A. Thisted, Ph.D.

Product Code	SDOSAN
A.P.P.L.E. Price	\$12.50
Sug. Retail	N/A
Foreign Ship. Wt.	2 oz

This is a utility for viewing and printing the raw contents of a disk. Features a specially formatted printout of the VTOC, catalog, and track/sector list. Once this information is viewed, you can proceed to read sectors of any particular file. This is especially useful in investigating bad word processor files. The program is especially well documented to provide a learning experience in programming and in using RWTS. The program is mostly in Applesoft and Big Mac source files are included for the binary portion of the program. This program can be used by a beginner and will be useful to most anyone. Requires any Apple with Applesoft and one disk drive. A printer is useful.

VALUE-SOFT

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FARWORD By John Shanks and Fred Lautzenhiser

Product Code	SFARWO
A.P.P.L.E. Price	\$12.50
Sug. Retail	N/A
Foreign Ship. Wt.	2 oz

A high quality line oriented word processor. Features 40 column editing with 80 column preview. Text is easily edited, inserted, moved or deleted using the same command structure as Big Mac. Any portion of the text can be saved to disk and disk files can be easily inserted. Lines can be alphabetized. Formatting capability is exceptional, any function of your printer can be utilized. A line editor is especially useful for writing outlines, lists of data, fact sheets or any situation where text manipulation is needed. Requires a 64K Apple with Applesoft and one disk drive. An 80 column card, additional disk drive, lower case chip and shift key modification are desirable.

GRAFMAGIC By Stuart Cowan

Product Code	SGRAFM
A.P.P.L.E. Price	\$12.50
Sug. Retail	N/A
Foreign Ship. Wt.	2 oz

This is a program which uses ampersand vectors to manipulate the Hi-Res screen. The viewpoint series of commands combined with page flipping create some unusual displays. Mirror images, picture or's, and's and eor's can be formed. Supports scrolling, sound effects and character sets from the DOS TOOL KIT. The program is easy to use and an experienced user can integrate this with other programs. Requires an Apple and one disk drive.

GRAPHICS BUILDER By Alton Loe Alchemy Systems

Product Code	SGRABU
A.P.P.L.E. Price	\$12.50
Sug. Retail	N/A
Foreign Ship. Wt.	2 oz

This is a graphics utility which allows one to draw a Hi-Res picture, save the picture as a binary file or as a point by point and command text file. An existing picture can be modified, such as creating labels for a graph or putting a moustache on a Hop-along Cassidy. Additional commands allow expansion or contraction of the picture, pen color selection, goto XY, draw a grid on the screen and integrate with AP GRAPHICS:The Filler. Requires an Apple with 48K and one disk drive.

MICROWRITER IIe By William H. Starbuck

Product Code	SMICWT
A.P.P.L.E. Price	\$12.50
Sug. Retail	N/A
Foreign Ship. Wt.	2 oz

A semiprofessional screen oriented word processor. Features 40 or 80 column edit modes, an 80 column preview if you edit in 40 columns, full IIe keyboard support, text insert, delete, move and replace, insert segments from disk, and save segments to disk. Generates standard text files. Printer drivers are included for Epson, Tally, Prowriter and Apple DMP. Full Instructions are included to generate additional printer drivers. This word processor is easy to use and will satisfy the requirements of 99% of the users. Requires an Apple IIe and one disk drive. Supports additional drives and most common printers or 80 column card.

MORTGAGES, DEPRECIATION, AND FINANCIAL CALCULATIONS By Wayne Pratt, CCIM, Pratt Software

Product Code	SMORTG
A.P.P.L.E. Price	\$12.50
Sug. Retail	N/A
Foreign Ship. Wt.	2 oz

A first rate financial calculation program, MDFC provides a means to print out an amortization of loans involving as many as three mortgages. The financial portion finds internal rate of return, financial management rate of return, net present value, compound interest and discounting, discount a note and yield on a wrap-around note. The depreciation models allow either real estate or personal property to be depreciated. Methods include Pr-1981, straight line and accelerated. These programs will be of great value to homeowners and investors. Requires any Apple (Applesoft) and a disk drive. A printer is recommended.

SCRAMBLER By Jerry Jongerius Jagware

Product Code	SSCRAM
A.P.P.L.E. Price	\$12.50
Sug. Retail	N/A
Foreign Ship. Wt.	2 oz

A disk utility to scan a disk for errors and to copy protect your personal software. Each sector of a disk is checked, bad sectors are marked on the screen. Copy protection can be applied to your disk and for added protection you can add a password. Data disks can also be created. This program is of use in the classroom, at school, or might be used in the home to separate family software. Requires an Apple II+ or IIe with one disk drive. A second drive and a printer are optional.

THE SCHOOLHOUSE GRADER By Jim Campbell

Product Code	SGRADE
A.P.P.L.E. Price	\$12.50
Sug. Retail	N/A
Foreign Ship. Wt.	2 oz

A teacher's record book, a class roster and a record of grades, assignments and attendance, as well as statistics are provided. This uncomplicated program should be of great value to teachers who wish to try using a computer for record keeping. Requires any Apple with 48K and one disk drive. A second drive and a printer are recommended.

ZAPT By Andy Tuxen Apt Software

Product Code	SZAPT
A.P.P.L.E. Price	\$12.50
Sug. Retail	N/A
Foreign Ship. Wt.	2 oz

A disk utility for altering data on a DOS 3.2, 3.3 or PASCAL disk. With this utility you can change catalog entries, recover deleted files, delete DOS, make modifications to binary programs, and correct corrupted files. In short, you can read or write any byte on a disk. This program is for those who want to learn and for those who have always wanted a (another) ZAP program. Requires any Apple and one disk drive.

WICKERWARE #1 By Andrew Wicker

Product Code	SWICWA
A.P.P.L.E. Price	\$12.50
Sug. Retail	N/A
Foreign Ship. Wt.	2 oz

A collection of 11 fun filled and action packed games for various levels and abilities. The 11 assorted games are listed below and require an Apple and one disk drive.

Chaser	Trap	Catch	Eat Em Up
Block Em	Lunar Lander	Panic	Alien
Janitor	Depth Charge	Bouncer	

SOFTWARE

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Most software is Apple IIe compatible.

All of our software is sold "un-protected" and is easily backed up with any standard copy program (some of our commercial label products however are protected). Unless otherwise specified, all program packages require at least 48K of RAM, Applesoft in ROM or Lang/Ram card, and one disk drive with DOS 3.3.

Please use bold face product name and code when ordering.

Apple Prestige Product Line

AMPERMANAGER

Product Code	SAMP
A.P.P.L.E. Price	\$22.50
Sug. Retail	N/A
Foreign Ship. Wt.	4 oz

A package which enhances Applesoft through the ampersand command. It can issue shorthand commands, uses shift key for lower case (lower case chip required), enhances the input facility, provides print using, provides better interface with memory, enhances DOS (even providing read/write of specified track/sectors) and enhances string manipulation. A must for the Apple-soft programmer.

AP FILE

Product Code	SAPF
A.P.P.L.E. Price	\$18.50
Sug. Retail	N/A
Foreign Ship. Wt.	2 oz

Serial line editor for creating and easily editing sequential (EX-EC) text files. Accompanying utilities offer ability to display disk and RAM memory in various formats, transfer text and binary files, list and change the location of Applesoft programs in memory and more. Documentation explains how programmers may modify and expand the line editor to their own specific applications.

AP GRAPHICS: "The Filler"

Product Code	SFLR
A.P.P.L.E. Price	\$17.00
Sug. Retail	N/A
Foreign Ship. Wt.	4 oz

Useful tool for game and applications developers requiring FAST, colorful, high-resolution quality graphic displays. "The Filler" features a fast machine language program that is easily transferred to your BASIC programs. The simple Ampersand commands make this graphics utility easy to control and you may fill any area of the Apple screen with up to 21 colors & a myriad of user-definable patterns. You can create and edit your own unique Hi-Res pictures with the easy to use picture editor. Document covers all aspects, functions, and uses of this fine tool, but assumes you have a working knowledge of Applesoft BASIC.

AP MAIL II Version 3.0

Product Code	SAM3
A.P.P.L.E. Price	\$25.00
Sug. Retail	N/A
Foreign Ship. Wt.	3 oz

ApMail is designed to be easy-to-learn and use for fast data entry/retrieval. Ideally suited for creating mailing lists. Sorting may be performed on any one of the 10 data fields, supports the printing of 1-up to 4-up labels, and stores up to 850 names per diskette. Full documentation is included for properly configuring the program to your system. Version 3.0 is compatible with previous versions of ApMail.

AP TEST

Product Code	SAPT
A.P.P.L.E. Price	\$18.50
Sug. Retail	N/A
Foreign Ship. Wt.	2 oz

Low-cost diagnostics program designed to thoroughly test your Apple. ApTest features tests of both RAM & ROM memory, modem, keyboard, disk drive speed, drive head alignment, drive controller card and the game I/O. Program is self documented and addresses the subject of head alignment and adjusting drive speed yourself. Will test Apple II, II+ and IIe.

THE APPLESOFT CARPENTER

Product Code	SCAR
A.P.P.L.E. Price	\$18.50
Sug. Retail	N/A
Foreign Ship. Wt.	4 oz

A collection of seven utilities which enhances programming productivity.

The Lister: provides formatted listings of Applesoft programs.

The Comparer: compares two Applesoft programs.

The Cruncher: compacts Applesoft programs.

The Converter: converts Integer Basic files to Apple-soft.

The Constructor: allows Integer Basic to be converted to Applesoft format to provide back up documentation of original program.

The Finder: finds all occurrences of a string.

The Keeper: allows you to preserve variables during line editing.

This diskette is a much revised version of the original Carpenter. Carpenter II was totally rewritten and is not a revision of earlier Carpenters.

BIG MAC.LC

Product Code	SMLC
A.P.P.L.E. Price	\$28.50
Sug. Retail	N/A
Foreign Ship. Wt.	7 oz

Powerful, co-resident editor/assembler that is upwards compatible with Ted II+ source files as well as files generated from other assemblers. Easy-to-use program features MACRO capability, fast (2000-3000 lines/minute) conditional assembly, full feature editor, support of all 6502 opcodes, Sweet 16, and all logical and math operations. In addition, you may generate up to three different symbol tables (alpha by label, numeric by address, cross-referenced by line), an extensive well-written manual is included. MAC.LC stands for 'Language Card' or RAM card version and loads itself into your 16K card allowing you more room. The program also supports linking of object code files, 80-column boards, conversion of text & binary files, and others. 48K and 64K version BIG MAC are included on the disk. (Note: MAC.LC requires a Language or RAM card to function properly.)

DICE

Product Code	SDIC
A.P.P.L.E. Price	\$12.50
Sug. Retail	N/A
Foreign Ship. Wt.	2 oz

Special routines designed specifically for use with lower case adapters such as ApLCas, Dan Paymar and all others. DICE makes it easy to type in and display UPPER and lower case characters and special symbols directly from the keyboard. Utility also features a scrolling speed control, stop/start list, handy control character functions, non-flashing cursor and detailed instructions for making the "shift key" modification to your Apple.

A.P.P.L.E. Winter Catalog

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DISK RECOVERY SYSTEM By Sof/Sys

Product Code	SDISRE
A.P.P.L.E. Price	\$36.00*
Sug. Retail	\$100.00
Foreign Ship. Wt.	5 oz

The Disk Recovery System (D.R.S.) is the most advanced and easy to use disk recovery program on the market today. D.R.S. checks disk drive speed and selects drive closer to the speed your disk was recorded on. D.R.S. then scans disks, track by track, recovering files without going through the VTOC and displays results on the screen. D.R.S. READS: Information from damaged sectors (unlike other copy/recovery programs that crash at the damaged sectors), disks that were recorded off-center and disks with errors caused by hub damage D.R.S. grades and fixes all possible files and makes recovered files accessible for conventional editing. For use on DOS 3.3 and Pascal disks.

*Subject to availability.

DRIVE ANALYZER DISKETTE By Verbatim

Product Code	SDAN
A.P.P.L.E. Price	\$32.00
Sug. Retail	39.95
Foreign Ship. Wt.	9 oz

This precision alignment diskette's a sure way to determine if your disk drive is operating properly. Menu driven tests determine state of radial alignment, disk centering, speed and write/read.

EZ PILOT

Product Code	SEAP
A.P.P.L.E. Price	\$28.50
Sug. Retail	N/A
Foreign Ship. Wt.	4 oz

An easy to use version of Apple Pilot, especially useful to school teachers and parents. You and the children will enjoy interactive computer sessions. The diskette comes with several sample lessons and straight forward instructions on how to create your own. Pictures created by the Koala Pad, Applesoft shape tables or other graphics generation method may be freely mixed with the text of your lessons. Program can talk to your students if your computer is equipped with a Mockingboard. The program is augmented with Diversidos thus speeding up disk access. Includes driver for the Mockingboard speech synthesizer. Also features a fast DOS, Diversidos and moves DOS to the language card.

HIGHER FONTS 1

Product Code	SHF1
A.P.P.L.E. Price	\$13.00
Sug. Retail	\$15.00
Foreign Ship. Wt.	1 oz

Need extra character sets for Higher Text Plus, but don't wish to create them? Higher Fonts is a collection of over 25 different fonts or character sets for use with Higher Text Plus Fonts vary from foreign and ancient language alphabets to special math and scientific symbols and game building characters. Use of fonts is demonstrated by several display programs.

HIGHER TEXT PLUS

Product Code	SHTP
A.P.P.L.E. Price	\$27.50
Sug. Retail	\$40.00
Foreign Ship. Wt.	4 oz

Generate upper and lower case text in a variety of typefaces, sizes and colors, from your programs, for display on the Apple Hi-Res screen. Features an easy-to-use editor for generation of your own unique character sets (fonts), several utilities to enhance your creation of Hi-Res displays, wide range of sample fonts, and full documentation. (Note: this program requires and assumes a full working knowledge of either Integer or Applesoft BASIC.

A.P.P.L.E. Winter Catalog

MULTI-TRIEVE By Multi-Soft

Product Code	SMUL
A.P.P.L.E. Price	\$50.00
Sug. Retail	N/A
Foreign Ship. Wt.	9 oz

Multi-Trieve is a professional but low priced data base. All programs are on a single diskette. You can store, manipulate and retrieve information. Screen and printer reports are easily formatted and generated by simple commands. Further, more than one file can be on the data diskette. Includes a demo disk to help you get started.

PROGRAM GLOBAL EDITOR

Product Code	SPGE
A.P.P.L.E. Price	\$18.50
Sug. Retail	N/A
Foreign Ship. Wt.	2 oz

Utility for Applesoft programs that features global search, edit and replace, automatic line number and renumber capability, optimized listing of program to screen/printer, formatted hex dumps of memory, and compatibility with the Program Line Editor. Makes a great program development tool.

PROGRAM LINE EDITOR

Product Code	SPLE
A.P.P.L.E. Price	\$15.00
Sug. Retail	\$40.00
Foreign Ship. Wt.	3 oz

Very popular utility package that features user-definable keyboard MACROs, powerful line editor, upper/lower case input with ApLCas or other lower case adapter, handy 'stop list', and the whole works is transparent to you and your program until called upon. Highly recommended to those who take apart and change their programs and hate to edit/retype lines with their Apple's escape codes.

SOFT SEVENTY

Product Code	SS70
A.P.P.L.E. Price	\$20.00
Sug. Retail	\$49.95
Foreign Ship. Wt.	3 oz

Utility program package for generating a 70-column display. Machine language program features a full 96-character redefinable ASCII upper/lower case graphic character set. Toggle of fonts and toggle of 40/70-column screens, text character set, window inversion and overstrike. Compatible with modems (see Feb '83 issue of Call -A.P.P.L.E.), Applesoft, Integer, and machine language programs that use the normal Apple I/O hooks. Soft Seventy requires monitor for readability and is not compatible with most word processing applications.

THE SPREADSHEET Version 2.0

Product Code	STSS
A.P.P.L.E. Price	\$75.00
Sug. Retail	\$149.95
Foreign Ship. Wt.	2 lbs

THE Spreadsheet Version 2.0 is a 'new generation' spreadsheet calculator program with all the basic features necessary for creation of complicated models, and many advanced features too. THE Spreadsheet Version 2.0 supports:

- Most popular 80 column boards.
- Optional seventy column software display.
- All 'language card' compatible RAM cards (up to 512K).
- SSD also.
- Supports full upper and lower case from any Apple computer.
- Variable column widths.
- Protected cells, hidden cells, and other advanced features.
- Field to field tabbing, for easy data entry.
- Hard disk compatibility.

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THE SPREADSHEET 1.0 TO 2.0 FILE CONVERTER

Product Code	STSC
A.P.P.L.E. Price	\$5.00
Sug. Retail	N/A
Foreign Ship. Wt.	1 oz

Converts data files created by THE Spreadsheet 1.0 to a format that can be used by THE Spreadsheet 2.0.

TURTLESOFT

Product Code	STUR
A.P.P.L.E. Price	\$22.50
Sug. Retail	N/A
Foreign Ship. Wt.	8 oz

A new graphics program requiring little knowledge of Apple graphics. Program has great educational potential. Now you can use commands like: &"DRAW", &"LEFT"5, &"FORWARD"10, etc., to create procedures that will draw geometric figures on your screen based on LOGO and the famed Turtlegraphics. Comes with a sound routine, collision detection, split screen graphics and macro definitions. Enjoy some of the features of Logo from the comfort of your own Basic.

SYMBOL SYMON

Product Code	SSYM
A.P.P.L.E. Price	\$20.00
Sug. Retail	N/A
Foreign Ship. Wt.	3 oz

Easy-to-use development and debugging tool that is designed to assist the assembly language programmer. Symbol Symon makes it simple to understand and debug your programs with step and trace from address to address, address to label (uses symbol table generated from BIG MAC/MAC.LC Editor/Assembler), even label to label. Insert up to 8 BRK points, display memory in both Hex and ASCII, set up and use your own zero page of memory, experiment with the COUT simulator, and more! Program comes with documentation and is a fine addition to your machine language program development library.

UTILITY DISKPAK 6B-16

Product Code	SD6B
A.P.P.L.E. Price	\$18.50
Sug. Retail	N/A
Foreign Ship. Wt.	1 oz

Great utility package that allows you to copy standard disks, map them for bad and unused sectors, reconstruct blown catalogs and physically change existing data, all with a single disk drive! A good set of programs to have tucked away with the Apple DOS manual and Beneath the Apple DOS book.

WORD WEAVER ///

Product Code	SWW3
A.P.P.L.E. Price	\$75.00
Sug. Retail	N/A
Foreign Ship. Wt.	3 oz

Very sophisticated, comprehensive, and easy-to-use line-oriented word processor package for the Apple ///. Features text-imbeddable printer control codes, text formatting, global search/edit/replace, easy and logical edit commands, and linking of up to 50 separate files. A must for the serious Apple /// computer enthusiast. (Note: requires 128K Apple /// computer and printer).

GAMES

COSMIC COMBAT

Product Code	SCCO
A.P.P.L.E. Price	\$12.50
Sug. Retail	\$29.95
Foreign Ship. Wt.	1 oz

Fast moving and challenging arcade graphics game. Features sound effects, colorful Hi-Res action and multiple skill levels. Requires game paddles or joystick.

DISPAK 7

Product Code	SD7
A.P.P.L.E. Price	\$17.50
Sug. Retail	N/A
Foreign Ship. Wt.	2 oz

Two separate diskettes loaded with textual and graphic games and simulations for the child in all of us. Includes a haunted mansion and the ever popular "TRIK 1.0 CONTRACT BRIDGE" with complete instructions. Requires Integer in ROM or a RAM card.

KOALAGRAMS SPELLING I By Koala

Product Code	SKOALA
A.P.P.L.E. Price	\$31.50
Sug. Retail	\$39.95
Foreign Ship. Wt.	3 oz

Your mission is to pilot your chopper through dangerous skies to recover secret words... letter by letter... and in exactly the right order. Comes with a 400 word vocabulary and is an entertaining spelling teacher for children ages 6 and up. Requires Koala Pad and is compatible with the II, II+ and IIe.

MICROBE By Synergistic Software

Product Code	SMIC
A.P.P.L.E. Price	\$30.00
Sug. Retail	\$44.95
Foreign Ship. Wt.	10 oz

Take a journey through the blood stream of a human body and battle life threatening organisms and diseases while being careful not to injure the human host. A great science and learning arcade like adventure game from Synergistic Software.

MUMMY'S CURSE

Product Code	SMCU
A.P.P.L.E. Price	\$12.50
Sug. Retail	\$30.00
Foreign Ship. Wt.	1 oz

Travel to ancient Egypt and try to recover the solid gold death mask of King Ruttattut. Hi-Res adventure game has detailed color pictures, lots of mind challenging puzzles and many, many rooms. Watch out for the Mummy! The diskette is unprotected and you will be able to study the internals of a professional adventure game.

SPIDER EATER By Koala

Product Code	SSPI
A.P.P.L.E. Price	\$24.00
Sug. Retail	\$29.95
Foreign Ship. Wt.	3 oz

A challenging game of musical notes and spiders. Spider Eater teaches kids note recognition, as they zap spiders from the screen scurrying home to their webs. Great computer tutor. Requires Koala Pad and works with the II, II+ and IIe.

THUNDERBOMBS By Penguin Software

Product Code	STHB
A.P.P.L.E. Price	\$16.00
Sug. Retail	\$19.95
Foreign Ship. Wt.	4 oz

Join a world of fast action space adventure as you engage invaders from distant worlds. Great fun for arcade addicts of all ages. The object is to dodge and maneuver your ship into attack position encountering waves of alien attackers. From Penguin Software. Mockingboard compatible.

PUBLIC DOMAIN SOFTWARE (Each disk Vol)

Product Code	SPDS
A.P.P.L.E. Price	\$4.00
Sug. Retail	N/A
Foreign Ship. Wt.	½ oz each

Variety of programs at a low cost of 15 to 25 cents per program! Disks contain everything from graphic demos/games to disk and printer utilities, tutorials, business and inventory programs to Pascal and C/PM. Below is a complete listing of our PDS Library, arranged by subject or send us a 37-cent stamped self-addressed envelope for a listing of all the programs on each volume. **Please specify volume number when ordering. All disks sold as is. No returns, technical support or alternates.**

DISK VOLUME

000, 001, 003
005
006
008 thru 017
028, 029
034, 036
042 thru 048
060
066, 067
074 thru 079
092
100 thru 120
140 thru 143
166, 167
173 thru 176
182, 183, 185
196 thru 199, 210
214 thru 226
227, 228
253 thru 255
Pascal-1 thru Pascal-5
Pascal-6
Pascal-7 thru Pascal-11
Pascla-12

Internat'l Apple Core (IAC)
volumes

IAC 2, 5, 9, 15, 16, 19

IAC 3, 8, 17

IAC 7, 12, 13, 20, 27, 29, 30A, 30B

IAC 10

IAC 14

IAC 18

IAC 21-a, 21-b

IAC 22

SUBJECT COVERED

Apple Tutor
Higher Test Utilities
Police Database
Art/Graphics
Astronomy
Aviation
Business/Finance
Chemistry/Biology
Education/School
Electronics/Radio
Food
Games
Adventure Games
Hello/Menu Utilities
Math/Statistics
Music/Sound
Miscellaneous
Utilities
Epson Utilities
Apple Software Bank
Miscellaneous
Attach.Bios
Miscellaneous
Payroll/Ledger

Miscellaneous

Games

Utilities

Hires

Hayes Modem

Sound

Computer BBS

VisiCalc

ANTHOLOGY VOLUMES

Product Code	See Below
A.P.P.L.E. Price	\$12.50
Sug. Retail	N/A
Foreign Ship. Wt.	1 oz

Each disk contains all the programs found between the pages of Call -A.P.P.L.E. magazine for a six month period, unless otherwise indicated (see below). Great way to obtain terrific programs and utilities without the bother and worry of typing them in correctly. Consult the individual issues or Peeking Compendiums for program documentation as these disks are not standalones.

Vol 1 (Jan-Jun '79) (SA1)

Vol 2 (Jul-Dec '79) (SA2)

Vol 3 (Jan-Jun '80) (SA3)

Vol 4 (Jul-Dec '80) (SA4)

Vol 5 (Jan-Jun '81) (SA5)

Vol 6 (Jul-Dec '81) (SA6)

Vol 7 (Jan-Jun '82) (SA7)

Vol 8 (Jul-Dec '82) (SA8)

EAMON ADVENTURE VOLUMES

An adventure game that takes you back to the days of sorcerers and magic. Encounter various obstacles requiring different responses depending on your character. Great fun for the wise. (You will need the Beginner's Cave in order to run any of the other Eamon Adventures)

Eamon 0 - Dungeon Designer Eamon
Eamon 1 - The Beginner's Cave
Eamon 2 - Lair of the Minotaur
Eamon 3 - Cave of the Mind
Eamon 4 - Zythur River Venture
Eamon 5 - Castle of Doom
Eamon 6 - Death Star
Eamon 7 - Devil's Tomb
Eamon 8 - Abductor's Quarters
Eamon 9 - Assault on the Clone Masters
Eamon 10 - Magic Kingdom
Eamon 11 - Molinar's Tomb
Eamon 12 - The Quest for Trezore
Eamon 13 - Lost Island of Apple
Eamon 14 - The Underground City
Eamon 15 - The Caves of Treasure Island
Eamon 16 - Furioso
Eamon 17 - Merlin's Castle
Eamon 18 - Hogarth Castle
Eamon 19 - Death Trap
Eamon 20 - The Black Death
Eamon 21 - Improved Dungeon Designer
Eamon 22 - The Senator's Chambers
Eamon 23 - The Temple of Ngurct
Eamon 24 - Black Mountain
Eamon 25 - Nuclear Nightmare
Eamon 26 - Assault on the Mole Man
Eamon 27 - Revenge of the Mole Man
Eamon 28 - The Gauntlet
Eamon 29 - The Caves of Mondamen
Eamon 30 - Heros Castle

CP/M

CP/M 1A, 1B	Utilities
CP/M 51A, 51B	Stage 2 Macro Processor
CP/M 60A, 60B	Diagnostics
Cp/M 61A, 61B, 76A, 76B	Miscellaneous
CP/M 66A, 66B	Assorted Help Files
CP/M 83A, 83B	Math
CP/M 84A	Modem

Vol 9a (Jan-Mar '83) (SA9A) Vol 10b (Oct-Dec '83) (SA10B)
Vol 9b (Apr-Jun '83) (SA9B)
Vol 10a (Jul-Sep '83) SA10A/Pascal 81 (Jan-Dec '81) (SPA1)

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AMBER SCREEN GORILLA MONITOR By Leading Edge

Product Code	HSRMON
A.P.P.L.E. Price	\$100.00
Sug. Retail	N/A
Foreign Ship. Wt.	N/A

High resolution 12" AMBER monitor for your Apple. Features a non-glare tube with an "easy on the eyes" amber color display. Monitor has standard composite video input with a video bandwidth of at least 18 MHz. Provides a clear, legible display of a full 80 columns by 25 lines, supports most all 80 column cards. Carries 1 year limited warranty from manufacturer and a tilt bracket on bottom for easy view. Does not work with the UltraTerm.

AP DRIVE By Micro Sci

Product Code	HAPD
A.P.P.L.E. Price	\$235.00
Sug. Retail	\$345.00
Foreign Ship. Wt.	N/A

One hundred percent compatible, 35-track disk drive for your Apple computer or look alike. The Ap Drive is compatible with your existing Apple Disk Controller, Ap Controller or APPLEsurance Card thus affording you cost effective floppy storage and greater system flexibility. Ap Drive is a Shugart SA390 with a Micro-Sci Analog board and carries a 120 day warranty against defects in materials and workmanship through the manufacturer. Comes with a beige cabinet, connecting cable, and test disk.

AP CONTROLLER By Micro Sci

Product Code	HAPC
A.P.P.L.E. Price	\$85.00
Sug. Retail	\$99.95
Foreign Ship. Wt.	N/A

Disk controller Card by Micro-Sci that features onboard a hardware jumper to switch between DOS 3.2 and DOS 3.3 and has space for 2 drives.

AP COOL KIT

Product Code	HAKK
A.P.P.L.E. Price	\$20.00
Sug. Retail	\$29.95
Foreign Ship. Wt.	N/A

Air conditioning for your Apple computer to keep it cool and calm during those heated times that your are not. This fan will reduce deleterious effect of heat buildup and thermal expansion. Kit contains low speed, low noise 3½ inch muffin type fan, line cord with switch, mounting tape and easy installation instructions. (NOTE: The AP COOL KIT does not fit Rev e).

AP L CASE 1 By Dan Paymar

Product Code	HLC1
A.P.P.L.E. Price	\$30.00
Sug. Retail	\$39.95
Foreign Ship. Wt.	N/A

Lower case adapter for Apple Motherboard revision 6 and earlier (the REV 0 through REV 6 have memory select blocks located on the left hand edge of the Motherboard-position 1, rows D, E, F). Chip is compatible with both Apple BASICS, Pascal, CP/M, and most word processing software allowing lowercase display. Document shows how to install the ApLCase 1 quickly and easily so that you will be up and using lowercase in very little time.

AP L.CASE 1 WITH DICE

Product Code	HLC1A
A.P.P.L.E. Price	\$37.50
Sug. Retail	N/A
Foreign Ship. Wt.	N/A

Description of DICE found on page 4.

AP L CASE 2

Product Code	HLC2
A.P.P.L.E. Price	\$25.00
Sug. Retail	\$29.95
Foreign Ship. Wt.	N/A

Same features as our original ApLCase above, but specifically for those post Rev 6 apples (Rev 7 thru Rev RFI D). Includes easy installation instructions and program patches.

AP L.CASE 2 WITH DICE

Product Code	HLC2B
A.P.P.L.E. Price	\$30.00
Sug. Retail	N/A
Foreign Ship. Wt.	N/A

APPLESURANCE By Prometheus

Product Code	HAUD
A.P.P.L.E. Price	\$85.00
Sug. Retail	\$149.50
Foreign Ship. Wt.	N/A

Unique disk controller card for your Apple II computer and 5¼" disk drives. Performs diagnostics of critical Apple hardware on power up - all automatically, in seconds! Provides descriptive error messages, even indicating which IC is bad. You even have the option of selecting more tests (quick/continuous RAM/ROM, Processor, Keyboard, Color, Screen, and Drive Speed) from its onboard menu. Full documentation is included. Can you afford to be without APPLEsurance?

APPLE IIe 80 COLUMN, EXTENDED RAM BOARD

Product Code	H80C
A.P.P.L.E. Price	\$120.00
Sug. Retail	\$169.95
Foreign Ship. Wt.	N/A

Quality board made especially for A.P.P.L.E. for the Apple IIe ONLY. RAM board contains 64K of memory and uses standard Apple Protocol.

APPLE III DISK DRIVE By Micro Sci

Product Code	HDR3
A.P.P.L.E. Price	\$285.00
Sug. Retail	\$379.00
Foreign Ship. Wt.	N/A

Model A3 by MicroSci (carries same warranty as AP DRIVE).

AP RAM 16 K By Prometheus

Product Code	HP16
A.P.P.L.E. Price	\$50.00
Sug. Retail	\$99.95
Foreign Ship. Wt.	N/A

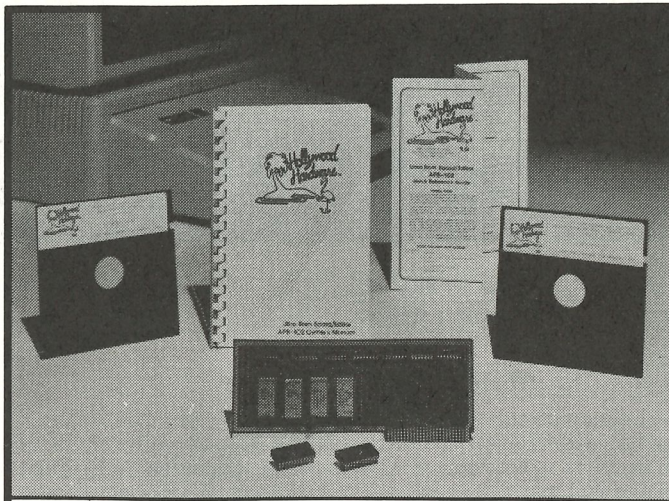
Plug in another 16K of memory to your 48K Apple with our economical 16K RAM card. Quality-made card plugs into slot 0 of your Apple and provides extra memory for loading the alternate BASIC language, Pascal, CP/M, moving DOS, and running GPLE and BIG MAC.LC as well as other software and hardware packages requiring the extra room.

AP RAM 128 K By Prometheus

Product Code	HP28
A.P.P.L.E. Price	\$295.00
Sug. Retail	\$449.50
Foreign Ship. Wt.	N/A

Same features as our 16K board above, but with 128K of RAM memory instead. Our 128K card will slide into any Apple slot and, with the included software, emulate a disk drive, expand THE Spreadsheet Version 2.0, operate under CP/M and Pascal. Greatly expand your available memory with its memory expansion software. Package includes all software, hardware, and documentation needed.

A.P.P.L.E. Winter Catalog



The Hollywood Hardware Firmware Enhancement System including the ULTRA-ROM Board Editor

Question: Would You Like to Make Programming Just Plain Easier? Easier to Learn— Easier To Do— and 3 Times Faster?!

In Other Words, Do You Want to Triple Your Programming Power With No Overhead?

If yes, than read on. If not, then please return this catalog to its rightful owner.

Why You Need It:

We'll skip the essay and go right to the basic premise. Take all the enhancements that transform the Apple from a novelty to a powerful instrument, and hook them into the operating system, installed on their own FIRMWARE card. NO disk loading, NO loss of available memory space, NO interface with other programs. The system never need be removed - it is unhooked with two keystrokes, rehooked with four. ALWAYS IN THE MACHINE, NEVER IN THE WAY.

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THEY LOVE IT! (You love it) The F.E.S. became CALL A.P.P.L.E.'s number 1 product within two months of introduction.

We Get a Lot of Nice Comments:

"...Excellent product, flawless..." Phil Daley

"...Hollywood Hardware has developed an elegant solution... it makes editing an Applesoft program all it should have been in the first place, and then some..." SOFTALK review

"...The best thing for the Apple since the disk" Edward Decker

NEW AND IMPROVED! Really. There are significant new additions to our product list...read on.

To Order

The Basic System (items a-d above) is available through this catalog...

...ULTRA-ROM BOARD/EDITOR (HURB)... **\$149⁰⁰**

FREE OFFER

If you buy the system before 2/28/84 We will send you a FREE Hollywood Hardware T-Shirt (Specify size on warranty card)

The Basic System Includes:

a) **The ULTRA-ROM BOARD (APB102A)** This card installs 32K of firmware space in any slot of your machine. Works with II, II+, //e, including 80 column, and requires no program memory.

"Nice looking, high quality hardware." Robert Zedelis

b) **GLE 4.2:** This is an enhanced version of the original, the editor that **ALLOWS** you to use good programming practice. GLOBAL SEARCH for strings, subroutine calls; automatic EDIT or REPLACE with another string. INSERT, DELETE, FIND, ZAP, CASE CONVERT and RESTORE variables, or characters in a line. We guarantee that you will never want to be without it.

FUNCTIONS: The system sits between the keyboard and the rest of the Apple - so any key can double as a FUNCTION KEY that generates a whole command string. Over 60 of the most common examples of typing drudgery are provided as MACROS. System users never type "PRINT PEEK OF ()", or "CATALOG, D1", or SAVE <filename>". They just type TWO keys: (e.g.) ESC P, or ESC 1, or ESC CTRL-S.

CUSTOMIZE your Apple. You can easily program (and save) your own custom nested macros to generate complex command sequences at the touch of a key!

"The most powerful program tool I have..." Robert Wilson

"If you program, and haven't used a line editor, get one right away..." Micro Magazine review

c) **FMS: The FIRMWARE MANAGEMENT SYSTEM** is what finds and enables the desired routine through automatic bank switching. New additions are recognized by simply plugging in the ROM. Other companies' boards and & utilities can coexist happily.

"...The integrated memory management system is one of the best features of the board." Mark Simonson, Beagle Brothers.

d) **APU-1:** Over 25 UTILITIES can be invoked by the "&" key: **Ultra fast searches** through program or memory. Garbaged program **recovery**. Instant numerical **conversions**, **hex-dec-binary**. Graphics state controls. Last DOS BLOAD info. Language extensions like PRINT USING and IF, THEN, ELSE are included, and also provided in disk form for portability. Your programs can use easy printouts and structured logic and STILL run on machines without the Ultra-ROM board.

"...P.S. love it! Can hardly wait for more!" Paul Fox

Optional Additions Include:

e) **NEW!! APU-2: superENUMBER, multiHIDE, multiMERGE, VARIABLE CROSS REFERENCE, AUTONUMBER.** These are NEW programs written by Paul Johnson. They are far more powerful and mistake proof than other versions...and you don't have to destroy your own program loading them in from disk. They are always at hand.

f) **NEW!! COPY ZAP** by Glen Bredon - author of BIG MAC. He will be distributing a SMART DISK COPIER, and ZAP utilities that he has written for our system. Hit "©" and watch!

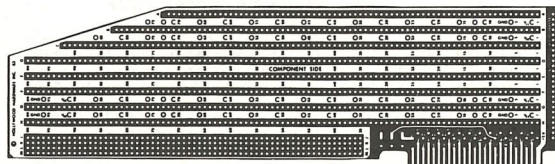
g) **NEW!! ROM DEVELOPEMENT SYSTEM:** Program your own firmware! Includes software, documentation and emulation RAM to speed the process.

h) **NEW!! Totally transportable debugged SOFTWARE-** A Hollywood Hardware T-SHIRT with our famous logo. (S, M, L, XL)

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Useful board for large projects. Holes are drilled so that IC's can be mounted horizontally or vertically. No bus bars, 50 pin edge connector has special plating.

**HOME CONTROLLER
By Prometheus**

Product Code	HHOC
A.P.P.L.E. Price	\$40.00
Sug. Retail	\$64.95
Foreign Ship. Wt.	N/A

Your Apple with BSR X-10 Electrical controller (available at your local hardware/department stores), the VersaCard and this package, you can keep your home secure, turn electrical devices on/off, control temperature all under computer control. The Home Controller includes an ultrasonic transducer, a utility diskette and a VersaCard diagnostics diskette.

**KOALA PAD
TOUCH TABLET**

Product Code	HPAD
A.P.P.L.E. Price	\$95.00
Sug. Retail	\$124.95
Foreign Ship. Wt.	N/A

The Koala Pad Touch Tablet is a state-of-art, position sensing device. It converts finger or stylus pressure and movement into electronic signals for controlling computers and is particularly useful for drawing pictures and pointing to pictures on the screen. By using the Micro Illustrator program (comes with package kit) you can create geometric shapes or draw free form. All the options of color and design are at your fingertips from a powerful on-screen menu. It's fun to use especially with color monitor and plugs into your game I/O socket. Works with the Apple II, II+ and IIe. We suggest purchasing a Paddle-Ad Apple (HPADDL) leaving your game controller plugged in at the same time.

**MACH II JOYSTICK
By Hayes**

Product Code	HJOYST
A.P.P.L.E. Price	\$34.00
Sug. Retail	\$44.95
Foreign Ship. Wt.	N/A

The ultimate joystick, a total coordinated X/Y control (not just a four-way switch like many other joysticks). Stick movement is precisely translated to cursor positioning on the screen. Fine trim adjustments on both axes will enable operator to finely tune the joystick to electrical center for each software requirement. Joystick features a self centering function which can be easily disengaged. Works with Apple II and II+ and all Hayes joysticks come with a full 90 day warranty.

**MACH III JOYSTICK
By Hayes**

Product Code	HJMACH
A.P.P.L.E. Price	\$44.00
Sug. Retail	\$54.95
Foreign Ship. Wt.	N/A

Same description above. In addition, joystick features a push button switch on the stick handle and a stainless steel ball as the main pivot to provide even greater accuracy, reliability and movement. (See picture above)

**MACH III JOYSTICK
(FOR THE IIe)
By Hayes**

Product Code	HJOMA3
A.P.P.L.E. Price	\$49.00
Sug. Retail	\$59.95
Foreign Ship. Wt.	N/A

Same joystick as the MACH III except specially designed to fit the IIe socket.

DISK BANKS

Product Code	HDBA
A.P.P.L.E. Price	\$4.50
Sug. Retail	\$9.95
Foreign Ship. Wt.	11 oz

Store and protect your valuable diskettes in this unique and versatile disk filing system. Each "bank" holds up to 10 diskettes and features an adjustable slide-out drawer, convenient interlocking grooves on sides & top for stacking and expansion, and sturdy, safe storage of your magnetic media.

**DUMPLING 64
By Microtek**

Product Code	HMPD
A.P.P.L.E. Price	\$180.00
Sug. Retail	\$199.00
Foreign Ship. Wt.	N/A

Intelligent graphics printer spooler parallel interface card by Microtek. Same features as GX, but with 16K buffer, user upgradable to 64K. Large printing jobs are dumped into the buffer, thus freeing the computer for other tasks. Additional features include: Software reset; space compression, consecutive dumps; and buffer on/off. Manual and parallel cable included.

**DUMPLING GX
By Microtek**

Product Code	HMPC
A.P.P.L.E. Price	\$130.00
Sug. Retail	\$159.00
Foreign Ship. Wt.	N/A

Intelligent HiRes Graphics parallel printer interface card by Microtek. Dip switch selectable to work with most centronics-type printers, including Epson, Anadex, NEL, C. Itoh, Okidata, IDS, PMC, Tally, and Apple Dot Matrix. Keyboard activated firmware features include: Dual page text or graphics dump; margin, line and page length control; block graphics; rotation; inversion; double-sized and emphasized graphics; single command firmware bypass. Manual and parallel cable included.

FLIPSORT

Product Code	HFLS
A.P.P.L.E. Price	\$22.50
Sug. Retail	\$29.95
Foreign Ship. Wt.	2 lb, 12 oz

Attractive, functional disk storage system with capacity for 75 5¼ inch diskettes. Contains molded index with dividers. Cover protects disks from dust contamination. Comes in a smoke color with front carrying handle.

**GRAPHITTI
By Prometheus**

Product Code	HGRA
A.P.P.L.E. Price	\$85.00
Sug. Retail	\$129.50
Foreign Ship. Wt.	N/A

Intelligent parallel interface for most of today's popular dot-matrix graphics printers such as Epson (Graphtrax), C-Itoh, Pro-writer I, NEC, Okidata (Microline, Okiplot), IDS (460, 560, prism), Apple Dot Matrix. Onboard firmware features easy transfer of Apple graphic and text screens to printer without the loading of special software routines. In addition, you may send printer ESCape codes as control characters, set margins, line and page length, toggle highbit, set video echo and linefeeds. Packaged with a parallel interface cable and easy-to-follow instructions. Requires Applesoft in ROM for full graphics capability. **Please specify printer type.**

**HOBBY PROTO-
TYPING BOARD 11"
By Hollywood
Hardware**

Product Code	HP11
A.P.P.L.E. Price	\$21.00
Sug. Retail	\$39.95
Foreign Ship. Wt.	N/A

HARDWARE

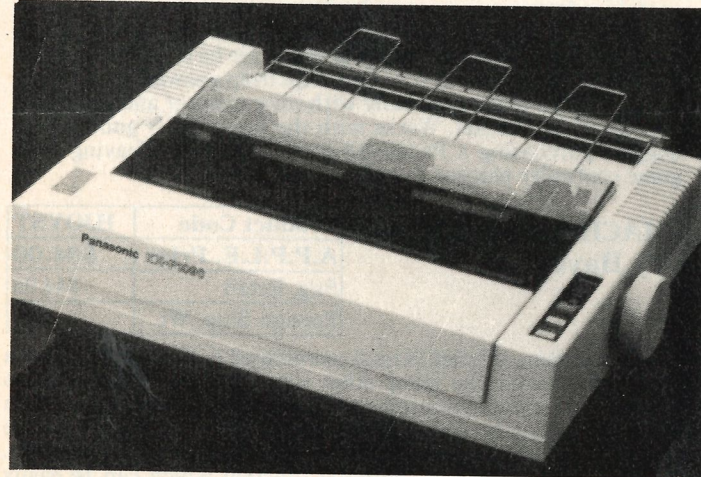
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PADDLE-ADAPPLE By Southern California Research Group

Expand your game Paddle/Joystick/Koala Pad world with this game I/O extender. The Paddle Ad-Apple offers two 16 pin connector sockets on one 18 inch cable enabling you to plug in two exterior devices (i.e.: Koala Pad and Joysticks) at the same time. In addition, a fourth cable goes to a configuration block if you want to run two joysticks at the same time and the 18" cable lends more mobility to you.

PANASONIC PRINTER KX-P1090

High resolution dot matrix, dot-addressable parallel graphic printer ideally suited for personal and small business use. This printer uses the same features as the Epson MX 80, prints bi-directionally at 80 CPS (Pica) and 96 CPS (Elite) with logic seeking capabilities. It has a 9 pin printhead for sharp copy quality and can be tractor or friction fed.



RS232C SERIAL PRINTER OPTION CARD

Serial Printer Option Card for the Panasonic KX-P1090 printer listed above and contains a 2 K buffer. This card does not take the place of the serial card in your computer.

PANASONIC KX-P1090 PRINTER RIBBONS

PROWRITER PRINTER

The model 8510A is a compact desk-top dot matrix parallel impact printer used for data communication terminals, hardcopy of CRT displays, peripheral terminals for minicomputers and

Product Code	HPADDL
A.P.P.L.E. Price	\$25.00
Sug. Retail	\$29.95
Foreign Ship. Wt.	N/A

Product Code	HPANPR
A.P.P.L.E. Price	\$325.00
Sug. Retail	\$499.00
Foreign Ship. Wt.	N/A

Product Code	HSERIN
A.P.P.L.E. Price	\$85.00
Sug. Retail	\$110.00
Foreign Ship. Wt.	N/A

Product Code	HPANRI
A.P.P.L.E. Price	\$14.00
Sug. Retail	\$19.95
Foreign Ship. Wt.	N/A

Product Code	HPRT
A.P.P.L.E. Price	\$380.00
Sug. Retail	\$495.00
Foreign Ship. Wt.	N/A

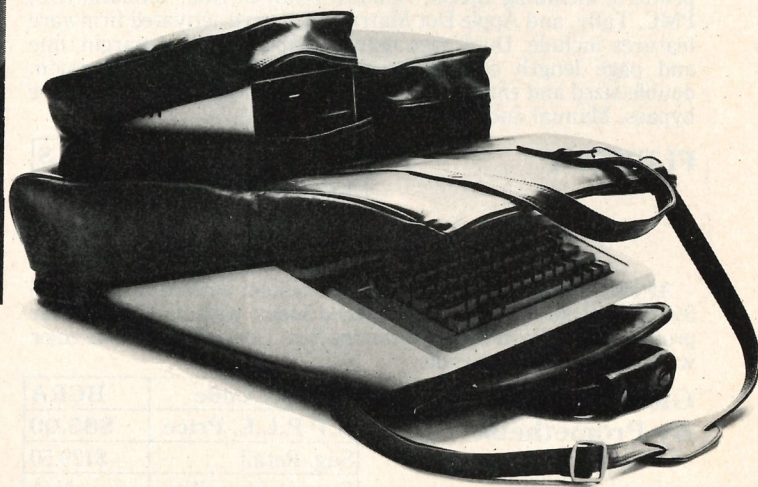
microcomputers and small-sized business systems. This lightweight, high quality printer provides bit image graphics, graphic symbols and can print in six different languages with low power consumption. The character format is a dot matrix of 7(H)x9(V), or 8(H)x8(V). Print speed is 120 characters/second. Up to 132 characters at 16 CPI can be printed per line.

REPEATERRRR

Install this handy circuit board between the keyboard and the encoder board to obtain "repeat on any key held down". If repeat key is depressed, repeat speed increases. Includes a very nice shift key modification kit. Requires the two piece keyboard. (REV 7-REV D)

SOFTCASE

This soft cover, light, durable carrying case makes transporting your Apple and two disk drives easy and SAFE. One half inch padding protects your entire Apple from bumps and bruises with extra padding around corners and keyboard. The SoftCase is an attractive, light brown simulated leather and features two counter zip zippers, a strong carrying handle plus a durable shoulder strap. SoftCase also offers pockets inside for diskettes, manuals and two large exterior zip pockets hold and protect your disk drives atop your Apple. Great to take your Apple to grandma's house in.



SUP' R MOD By M & R Enterprises

The SUP' R MOD is a wide band interface system which converts your home TV into a full video display for a personal computer, CCTV camera, or any system which accents NTSC compatible composite video. SUP' R MOD is pretuned to channel 3 or 4 and ensures safe isolation and high performance with either a black and white or color TV. FCC approved, externally powered (no drain on computer's power supply) is easily connected and comes with a one year warranty from the manufacturer.

Product Code	HRPT
A.P.P.L.E. Price	\$23.00
Sug. Retail	\$29.95
Foreign Ship. Wt.	N/A

Product Code	HSOFTC
A.P.P.L.E. Price	\$39.00
Sug. Retail	N/A
Foreign Ship. Wt.	2 lbs, 6 oz

Product Code	HSUPMO
A.P.P.L.E. Price	\$60.00
Sug. Retail	\$69.95
Foreign Ship. Wt.	N/A

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SOLID STATE DISK— FLASH CARD By Syntex

Slowed by your floppy drive? Save time and be more productive with this quick, low priced solid state disk emulator. Using RAM memory, this board plugs into any slot (except 0) and pretends to be a very fast floppy drive. Available as a single drive (147K) or double (294K); the double drive can be formatted as a single large DOS, Pascal or CP/M volume. Relatively low power consumption lets you use multiple solid state drives. Any disk with standard DOS can be copied into the SSD memory. Price includes one plug-in RAM memory disk emulator board, detailed instructions, diskette with program to automatically copy disk into 'disk memory' and operating software for DOS, CP/M and Pascal. Three disks (one each) come with system. (Requires an Apple II/Ie, disk drive, DOS 3.3.) Works as extended RAM Board for the Spreadsheet.

Upgrade for the 147K SSD is also available and contains step-by-step instructions to update your 147K SSD to a full 294K. Kit includes memory chips and instructions. (Original warranty is maintained). **All operating system disks come with Flashcard.**

144K SINGLE DRIVE

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144K UPGRADE KIT

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288K DOUBLE DRIVE

Product Code	HSSD
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SUPER FAN II By R.H. Electronics

Product Code	HFAN
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Zener-Ray transient voltage suppressor and power filter squelches spikes up to 6000 Amps—even those caused by lightning—while responding up to 100 times faster than the Apple built in filter. Removes air at 17 cubic feet per minute. Unit has lighted switch in front, two accessory plugs in rear and clips to Apple II, I/e or monitor stand. The convenience and the efficient temperature stabilization will make your Apple last longer.

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Product Code	HTR1
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THE MODEM II By Multi-tech

A complete modem package for use with the Apple II, Apple II+, I/e, or other Apple compatible computer. This user friendly Modem II features complete menu driven software with user prompts at all levels of command entry and keyboard dialing for ease of operation. The Modem II doesn't require the use of a serial interface card. By plugging it directly into one of the I/O slots inside the computer, you get full or half duplex communications at either 110 or 300 bps. (fully D.C. Hayes compatible). The Modem II's firmware allows your computer to function as a terminal as well as a computer. It is also software compatible with other Apple II smart modems and supports many 80 column cards.

THE ULTRATERM By Videx

Product Code	HULTRA
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The UltraTerm delivers a high-quality 8x12 dot matrix character set with stable, flicker-free display that guarantees easy readability. Nine software selectable video display formats allow as many as 4096 characters to be displayed. The UltraTerm modes are: 40 col x 24 lines, 80 x 24, 80 x 48, 80 x 32 (interlace), 96 x 24, 128 x 32, 132 x 24 (interlace) and 160 x 24 lines. Software selectable display attributes includes: bright/dim; standard alternate character sets; normal/inverse. Interlace mode (512 scan lines), requires a monitor with high persistence phosphor, such as the Apple III or Amdek 300 monitor. (Not recommended for use with the Gorilla monitor)

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ULTRA ROM BOARD/ EDITOR, APB-102 Firmware Enhancement System By Hollywood Hardware

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*CABLE ONLY

Please specify male or female DB25 for serial cable.

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12	14	2.58	3.98	5.38	8 oz 1.56
14	16	2.84	4.44	6.04	9 oz 1.73
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Each additional 1/2 pound over 4 pounds add:		1.04	1.84	2.64	10 lbs 11.10

For weights over 10 lbs, add \$1.00 per pound.

This price list supersedes all others and does not include special offers, and shipping outside the United States (see postage table on order page), or Washington State sales tax. Prices are subject to change without notice. Members outside the U.S. add shipping and handling charges to all orders. Washington State residents add 8.1% sales tax.

\$3.00 handling charge on all orders under \$25.00.