NEW PRODUCTS

TRANSTAR 120
LETTER QUALITY PRINTER

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

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

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 (SSCRA M) to check back sides of diskettes.

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

PROMODEM 1200
By Prometheus

<table>
<thead>
<tr>
<th>Product Code</th>
<th>HPRMOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.P.P.L.E. Price</td>
<td>$450.00*</td>
</tr>
<tr>
<td>Sug. Retail</td>
<td>$495.00</td>
</tr>
<tr>
<td>Foreign Ship. Wt.</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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.


IMAGINATOR
By Townsend Microware

<table>
<thead>
<tr>
<th>Product Code</th>
<th>SIMAGI</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.P.P.L.E. Price</td>
<td>$60.00</td>
</tr>
<tr>
<td>Sug. Retail</td>
<td>$129.95</td>
</tr>
<tr>
<td>Foreign Ship. Wt.</td>
<td>1 lb, 12 oz</td>
</tr>
</tbody>
</table>

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

All Pro DOS programs require 64K RAM.

APMAIL. PRO
By Ken Kashmareh, D.D. Redhead and F.W. Merchant

A new enhanced version of A.P.P.L.E.\'s excellent mail base program: AP MAIL II (Version 3.0) to run on the expanded capabilities of Apple Computer\'s ProDOS. APMAIL. PRO utilizes a new mail management system that can be expanded and programes are also recommended to facilitate user modification. Utilities have also been provided for easy DOS 3.3 AP Mail conversion with additional filters for the search and sort subroutines.

AP MAIL II (Version 3.0)
By Gary Carpeniter

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, program error correction, and a host of others. A search routine for an ASCII to hex utility and a search routine for hex or ASCII bytes. Complete documentation for ProDOS only, not ProDOS.

PROZAP
By Gary Carpeniter

A new utility for ProDOS users to allow one to draw a Hi-Res picture, save the picture as a bitmap or as a point by point and command text file. An existing picture can be modified, such as creating labels for a graph or painting a mustache on a Ronald Reagan. Additional commands allow expansion or contraction of the picture, picture selection, gets KY, draw a grid on the screen and integrate with AP GRAPHICS: The Filter. Requires an Apple with 48K and one disk drive.

MICROWRITER 1e
By William H. Starbuck

A semiprofessional screen oriented word processor. Features 40 or 80 column modes, an 80 column preview if you edit in 40 columns, full 1e 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, Telex, Prowriter and Apple. Full instructions are included to generate additional printer drivers. This word processor is easy to use and will satisfy the requirements of all the users. Requires an Apple Ile and one disk drive. Supports additional drivers and most common printers or 80 column card.

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

A first rate financial calculation program. MDPC 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, compounded interest and discounting, a discount rate and yield on a wrapping note. The depreciation options employ either either real estate or personal property to be depreciated. Methods include straight line, declining balance and sum of the years digits. This program is free to great value to homeowners and investors. Requires any Apple (Appletalk) and a disk drive. A printer is recommended.

SCRAMBLER
By Jerry Jongeurs Jagware

A disk utility to scan a disk for errors and to copy protect your personal software. A disk error check and H.S. are 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 software. Requires an Apple IIe or IIle with one disk drive. A second drive and a printer are optional.

THE SCHOOLHOUSE

GRADER
By Jim Campbell

A teacher\'s record book, a class roster and a record of grades, assignments and attendance. As well as scores 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.

ZAP!
By Andy Tuxen

A disk utility for altering data in 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 bytes on any disk. This program is for those who want to learn and for those who have always wanted (another) ZAP program. Requires any Apple and one disk drive.

WICKERER #1
By Andrew Wicker

A collection of 11 fun filled and action packed games for various levels and abilities. The 11 assorted games are all new and require any Apple and one disk drive.

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NEW VALU-RE-OF

An Inexpensive, Quality Software Line from A.P.P.L.E.

Only $12.50 each

These new software packages are another in a series of excellent, reasonably priced software programs. All documentation is on the diskette itself. A hard copy can be easily made by using the diskette printing programs in the diskette itself. All 11 Value-soft programs can be purchased together for $100.00 in special $5 each in lots of 10.

CATER KILLER
By Jeff Kofmoff

A multi-level action arcade game that can be played with keyboard joystick or 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 harmless to your health. You must take food away from the baby Cater Killers and if you get all eight food stuffs, you advance to the next level.

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

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 sector by sector of the disk. The program is especially useful in investigating bad word processor files. The program is also excellent for viewing the raw contents of a disk, but the options available to you may vary depending on your computer system and the type of disk you are using.

MORTGAGE
By Andrew Wicker

A collection of 11 fun filled and action packed games for various levels and abilities. The 11 assorted games are all new and require any Apple and one disk drive.

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SOFTWARE

THE SPREADSHEET 1.0 TO 2.0 CONVERSION

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

TURTLESOFT

PRODUCT

SPECIALIZED

Product Code 2105 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", "LET", "FORWARD", etc. to create programs that will draw geometric figures on your screen based on LOGO and the famous TurtlesGraphics. Comes with a sound routine, full user manual, and two screen graphics and macro definitions. Enjoy some of the features of Logo from the comfort of your own Basic

SYMBOL SYMNON

PRODUCT

SPECIALIZED

Product Code SSM Price $20.00 Sug. Retail N/A Foreign Ship. Wt. 1 oz

Easy-to-use development and debugging tool that is designed to assist the application language programmer. Symbol Symnon 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 LLC Editor/Assembler), even label editing. It even includes a built-in memory editor in both Hex and ASCII, set up and use your own zero page of memory, experiment with the COUT simulator, and more. It is a complete program comes with documentation and is a fine addition to your machine language program development library.

UTILITY DISKPAK 6B-16

Product Code SDB Price $18.00 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 disks with a single disk drive. A good set of programs to have tucked away with the Apple DOS manual and Beneath the Apple DOS look.

WORD WEAVER //

PRODUCT

SPECIALIZED

Product Code SW3 Price $75.00 Sug. Retail N/A Foreign Ship. Wt. 1 oz

Very sophisticated, comprehensive, full-featured word processor package for the Apple //. Features text-imbeddable printer control codes, text formatting, global search/ replace, easy and logical user commands, and making up to 50 separate files. A must for the serious Apple // computer enthusiast. (Note requires Apple II //computer and printer)

GAMES

COSMIC COMBAT

Product Code SCSO Price $12.50 Sug. Retail $29.95 Foreign Ship. Wt. 1 oz

Join a war of fast action speed, action 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, encircling war ships of an alien race. From Pong Software. Mockingbird compatible.

DISPAK 7

Product Code SD7 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 or the adult. Includes a haunted mansion 'DINER' CONTRACT, several high风险 games, and more. Requires Integem in ROM or a RAM card.

KOAALGRAMS SPELLING I

By Koala

Product Code SKOLA Price $31.50 Sug. Retail $29.95 Foreign Ship. Wt. 3 oz

Your mission is to pilot your chooper 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 8 and up. Requires Koala Pad and is compatible with the II, IP, and IIe.

MICROBE

By Synergistic Software

Product Code SMIC Price $25.00 Sug. Retail $44.95 Foreign Ship. Wt. 1 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 school and learning arcade style adventure game from Synergistic Software.

MUMMY'S CURSE

Product Code SMCC 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 Ruttatang. HiRes adventure game has detailed col. pictures, mind-boggling 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 adventur game.

SPIDER EATER

By Koala

Product Code SSPI Price $24.00 Sug. Retail $20.95 Foreign Ship. Wt. 3 oz

A challenging game of musical notes and spiders. Spider Eater teaches kids to read music as they zap reporters and stem the amassing horde coming home to their web. Great computer tutor. Requires Koala Pad and works with the II, IP, and IIe.

THUNDERBOMBS

By Penguin Software

Product Code STB Price $16.00 Sug. Retail $19.95 Foreign Ship. Wt. 4 oz

Join a world of fast action speed, action 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, encircling war ships of an alien race. From Pong Software. Mockingbird compatible.

PUBLIC DOMAIN SOFTWARE

(Product each disk)

Product Code SPDS Price $4.00 Sug. Retail Foreign Ship. Wt. 1/2 oz each

Variety of programs at a low cost of 15 to 25 cents per program. Disks contain everything from graph games, dot-matrix printer utilities, tutorials, business and inventory programs to Pascal and C/F. Below is a complete listing of our PDS Library arranged by subject or send us at 70% - 75% 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 1

SUBJECT COVERED

001, 001, 003
005
008 thru 017
029, 029
043, 043
048 thru 048
060
066, 067
074 thru 079
085
100 thru 120
140 thru 143
166, 167
173 thru 176
182, 183, 185
190 thru 199, 210
214 thru 226
227, 228
250 thru 255
Pascal 1 thru Pascal 5
Pascal 6
Pascal 7 thru Pascal 11
Pascal 12
Internet 1 Apple Core (IAC) volumes
IAC 2, 5, 9, 15, 16, 19
IAC 10
IAC 14
IAC 16
IAC 2, 5, 21, 21
IAC 22

PUBLIC DOMAIN VOLUMES

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

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 Paking's Comprehensive Guide for program documentation as these disks are not standalone.

Vol 1 (Jan-Jun '79) (S41) Vol 5 (Jan-Jun '81) (S45) Vol 10 (Jan-Jun '84) (S43)
Vol 2 (Jul-Dec '79) (S46) Vol 6 (Jul-Dec '81) (S45) Vol 11 (Jul-Dec '84) (S43)
Vol 3 (Jan-Jun '80) (S42) Vol 7 (Jan-Jun '82) (S46) Vol 12 (Jul-Dec '85) (S43)
Vol 4 (Jul-Dec '80) (S44) Vol 8 (Jul-Dec '82) (S46)

ANTHOLOGY VOLUMES

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

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 Paking's Comprehensive Guide for program documentation as these disks are not standalone.

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Vol 4 (Jul-Dec '80) (S44) Vol 8 (Jul-Dec '82) (S46)

NEW A.P.P.L.E. APPAREL

HSWH - V-Neck Sweatshirts $13.95

HTSH - T-Shirts $19.95

Please be sure to include shirt size with order.
AMBER SCREEN
GORILLA MONITOR
By Leading Edge

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

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 APPLE-surance 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

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

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 1/2 inch muffle fan 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

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, Pascals, CP/M, and most word processing software allowing lower case display. Document shows how to install the AP L CASE 1 quickly and easily so that you will be up and using lower case in very little time.

AP L CASE 1 WITH DICE

Description of DICE found on page 4.

AP L CASE 2

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

APPLESurance
By Prometheus

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 on-board menu. Full documentation is included. Can you afford to be without APPLEsurance?

APPLE IIe
80 COLUMN, EXTENDED RAM BOARD

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

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

AP RAM 16 K
By Prometheus

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

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 expands your available memory with its memory expansion software. Package includes all software, hardware, and documentation needed.
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

d) GPL 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 uses 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 CTL'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 & utilities can coexist happily.

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

d) APH-1: Over 25 UTILITIES can be invoked by the "&" key: Ultra fast searches through program or memory. Garbage program recovery, Instant numerical conversions, hex-decimal. 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! AP-2: supereRENUMBER, 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 Bedon - author or BIG MAC. We will be distributing a SMART DISK COPIER and ZAP utilities that he has written for your system. Hit "&COPY" and watch!

g) NEW! ROM DEVELOPMENT 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)

PRO-1 Professional Prototyping Board For Your APPLE®

ALL 1.C. PINS LETTERED BY COLUMN AND NUMBERED BY ROW
ACCEPTS ALL STANDARD 1.C. SOCKETS
ACCEPTS US TO 52 (16 PINS) SOCKETS
NUMBERED INPUT & OUTPUT PINS

$2100

*VCC & GND Pins Conveniently Available
*2.12V & -5V also Provided for Convenient Use
*Accepts all Standard I.D.S. Connectors (100 CFA)
*Gold plated Edge Connector
*Premium Quality Black Fiberglass

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 — More Efficient — 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.

The Response:

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)... $149.00

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)

Hollywood Hardware 6842 VALJEAN AVENUE, VAN NUYS, CALIFORNIA 91406 (818) 989-1204

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DISK BANKS

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 side-out drawer, convenient interlocking grooves on sides & top for stacking and expansion, and sturdy, safe storage of your magnetic media.

DUPLING 64
By Microtek

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 dump; and buffer on/off. Manual and parallel cable included.

DUPLING GX
By Microtek

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

FLIPSORT

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

Intelligent parallel interface for most of today’s popular dot-matrix graphics printers such as Epson (Graphtrax), C-Inte, Proprinter I, NEC, Okidata (Microline, Okiplot), IDS (690, 590, 890, 590, 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 highlight, set video echo and linefeeds. Packaged with a parallel interface cable and easy-to-follow instructions. Requires Appleset in ROM for full graphics capability. Please specify printer type.

HOBBY PROTOTYPEING BOARD 11"
By Hollywood Hardware

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

Useful board for large projects. Holes are drilled so that IC’s can be mounted horizontally or vertically. No bus bars, 59 pin edge connector has special plating.

HOME CONTROLLER
By Prometheus

Your Apple with BSR X-10 Electrical controller (available at your local hardware/departments 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

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 plug into your game I/O socket. Works with the Apple II, II+ and Ile. We suggest purchasing a Paddle-Ad Apple (BPADDL) leaving your game controller plugged in at the same time.

MACH II JOYSTICK
By Hayes

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 Ile and all Hayes joysticks come with a full 90 day warranty.

MACH III JOYSTICK
By Hayes

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 Ile)
By Hayes

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

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Outside Washington Only

PADDLE-ADAPPLY
By Southern California Research Group

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

Expand your game Paddle/Joystick/Koala Pad world with this game I/O extender. The Paddle-Ad-Apple offers two pin connector sockets on one 18 inch cable enabling you to plug in two external 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 inch cable lends more flexibility.

PANASONIC
PRINTER RX-P1090

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

High resolution dot matrix, dye-sublimated parallel graphics printer ideally suited for personal and small business use. This printer uses the same features as the Epson MX 80, prints bidirectionally at 80 CPS (Face) and 96 CPS (Elide) with logic seeking capability. It has 9 pin printhead for sharp copy quality and can be tractor or feedless.

REPEATERRR

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

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

SOLID STATE DISK—FLASH CARD
By Synetix

Product Code See Below
A.P.P.L.E. Price See Below
Sug. Retail N/A
Foreign Ship. Wt. N/A

SLOW by your flappy drive! Space and time be more productive with this quick, low priced solid state disk Card. Using RAM memory, this board plugs into any slot (except 0 and 1) and pretend's to be a very fast floppy drive. Available as a single drive (254K), the double drive can be formatted as a single large DOS, PASCAL or C/P-M volume. Only $20 for the 254K version 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 diskemulator board, detailed instructions, diskette with program to automatically copy disk to 'disk memory' and operating software for DOS, C/P-M and PASCAL. Three disks (one each) come with system. (Requires an Apple II/III, disk drive, DRS 3.3 Wares 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

Product Code HSSD
A.P.P.L.E. Price $275.00
Sug. Retail N/A
Foreign Ship. Wt. N/A

288K DOUBLE DRIVE

Product Code HSSD
A.P.P.L.E. Price $200.00
Sug. Retail N/A
Foreign Ship. Wt. N/A

SUPER FAN II
By R.H. Electronics

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

The SUPER FAN II is a wide band interface system which converts your home TV into a full video display for a personal computer, Cinematronics monitor, or any system with NTSC compatible composite video. SUPER FAN II is pre-tuned to channel 13 and ensures safe isolation and high performance with either black and white or color TV. FCC approved, externally powered power supply to computer's power supply is also available and comes with a one year warranty from the manufacturer.

TALLY 1801 RIBBON

Product Code HTR1
A.P.P.L.E. Price $12.50
Sug. Retail N/A
Foreign Ship. Wt. N/A

TALLY 1801 RIBBON

Product Code HTR1
A.P.P.L.E. Price $12.50
Sug. Retail N/A
Foreign Ship. Wt. N/A

THE MOD III
By Multi-tech

Product Code HMOD
A.P.P.L.E. Price $195.00
Sug. Retail N/A
Foreign Ship. Wt. N/A

A complete modem package for use with the Apple II, Apple III, Telecom 110 or Apple IIc computer. The Modem III II features complete menu driven software with user prompts at all levels of command entry and keyboard dialing for ease of use. The Modem III II does not require the optional Apple IIk interface card. By plugging it directly into one of the I/O slots inside your computer, you get full IIk communications at rates from 9600 to 300 bps (fully D.C. Hayes compatible). The Modem II k's firmware allows your computer to function as a terminal as well as a computer. It is also software compatible with other Apple IIk smart modems and supports many 80 column applications.

THE ULTRATERM
By Videx

Product Code HULTRA
A.P.P.L.E. Price $310.00
Sug. Retail $379.00
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The UltraTerm delivers a high-quality 8x22 dot matrix character set with stable, flip-dot displays for more readable printout. Sixty-four scalable display attributes allow many as 969 characters to be displayed. The UltraTerm modes are 40 x 24, 80 x 24, 80 x 48, 80 x 32 (interlace), 96 x 24, 128 x 24, 128 x 24 (interlace) and 160 x 24 lines. Software selectable display attributes includes: bright/dim, standard/alternate character sets, normal/ inverse, interface mode (82 scan lines), requires a monitor with high persistence phosphor, such as the Apple II/IIe or Amdek 300 monitor. (Not recommended for use with the Gorf confirmed)

TYPING AID

Product Code HPG
A.P.P.L.E. Price $13.00
Sug. Retail N/A
Foreign Ship. Wt. 1 lb 6 oz

Plastic stand which is a must for any programmer who spends a lot of time typing. The stand provides information from various sources. The "Typing Aid" has an adjustable stand to hold publications or listings of any size and is engraved with the Call-A-PPL.E logo.

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

Product Code HRB
A.P.P.L.E. Price $169.00
Sug. Retail N/A
Foreign Ship. Wt. N/A

Global Program Line Editor and Ampersend commands utility in 8BFROM. Ampersend commands include: Th然后再Print Using. Ultra Rom board is a slot independent ROM board with 4 sockets, each accommodating 2716 or 2725 in any combination, inter changeable with no modifications. Each 2716 or 1 or 2725 is in a IC socket. The card firmware automatically changes to match the type of memory. This card fits all the slot ROM boards. The firmware automatically turns the board of after powerup to put the board in the correct interface mode. Not compatible with any other 1/O board that follows Apple convention. For special applications the resident firmware is also changeable by the user. Works on Apple II and IIe.

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Outside Washington Only

RS232C SERIAL PRINTER OPTION CARD

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

Serial Printer Option Card for the Panasonic PX1090 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

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

The SUP R MOD is a wide band interface system which converts your home TV into a full video display for a personal computer, Cimematronics monitor, or any system with NTSC compatible composite video. SUP R MOD is pre-tuned to channel 13 and ensures safe isolation and high performance with either black and white or color TV. FCC approved, externally powered power supply to computer's power supply is also available and comes with a one year warranty from the manufacturer.

SUPR'R MOD
By M & R Enterprises

Product Code HSUPMO
A.P.P.L.E. Price $80.00
Sug. Retail $95.00
Foreign Ship. Wt. N/A

PROWRITER PRINTER

Product Code HPRT
A.P.P.L.E. Price $380.00
Sug. Retail $459.00
Foreign Ship. Wt. N/A

The model 8510A is a compact desktop dot matrix parallel interface printer used to communicate terminals, banks of CRT displays, peripheral terminals for minicomputers and microcomputers and small-sized business systems. This light weight, 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 7x10(NK08), or 5x9(H80K). Print speed is 120 characters/second. Up to 122 characters at 16 CPI can be printed per line.

PHOTO

Product Code HSOFCT
A.P.P.L.E. Price $29.00
Sug. Retail N/A
Foreign Ship. Wt. 2 lb 6 oz

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 keys. SoftCase offers an attractive, light brown simulated leather and features two counter tip zip pockets, 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.
### 1981 CALENDAR YEAR

**Product Code** | **A.P.P.L.E. Price** | **Sug. Retail** | **Foreign Ship. Wt.**
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PPK4 | $18.50 | N/A | 3 Bls., 9 oz.

### 1982 CALENDAR YEAR

**Product Code** | **A.P.P.L.E. Price** | **Sug. Retail** | **Foreign Ship. Wt.**
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PPK5 | $18.50 | N/A | 3 Bls., 9 oz.

**KIDS AND THE APPLE**

Written for kids of all ages, this educational book presents the world of Apple II programming in a tutorial/textbook format that makes learning fun. Contains over 30 different lessons with full explanations, examples, exercises, and quick review quizzes. *Kids and the Apple* will teach your kids adult toolsm how to program their own board, action, and word games, how to store and recall information, how to write drill programs to help them in math, spelling, history, and how to illustrate with The Apple Graphics Super!.

**THE ELEMENTARY APPLE**

This book is intended to help you operate your new Apple II computer, get started programming, and make life easier with your computer. Excellent teaching and reference work on the Apple II language. Contains many illustrations. The book takes you step-by-step through the process of Apple II programming in a simple, step-by-step manner that builds on each previous lesson to give a complete coverage of the Apple II language. Illustrated with many graphics. The book includes an introductory section on the Apple II, and an introduction to the Apple II keyboard and its function. The book also includes a glossary of terms, a table of contents, an index, and a list of abbreviations.

**THE POWER OF VISICALC**

Clearly written and illustrated, this manual designed to increase your understanding of and your Visicalc system and its powerful functions. Picking up where the manual left off, these book give actual, working application examples that are easily adapted to your own models. They find these books useful adjains when designing models for THE Spreadsheet 3.0.

### VOLUME II

**Product Code** | **A.P.P.L.E. Price** | **Sug. Retail** | **Foreign Ship. Wt.**
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PV2 | $8.50 | N/A | 9 oz.

**WHATS WHERE IN THEAPPLE**

Atlas and gazetteer of the Apple II memory for the BASIC program. Each entry describes a single memory location, given in decimal and hex, and if applicable the name of the symbol/label via Interface and Help sections. The 'Computer Apple' serves as a place to store your Apple II dictionary on your computer where you can find the name of the symbol/label.

**USING 6502 ASSEMBLY LANGUAGE**

Simple and understandable book written with the beginner in mind and covers not only the basics of the 6502 microcomputer language, but the practical aspects and how they apply to you and your Apple II. The book begins with basic assembly language, then discusses many important assembly language topics. The book is designed for the person who wants to learn assembly language quickly.

**VOZ TALKS VIDEO CASSETTE**

Nine minute VHS format video tape for beginners. Steve Wozniak from the October '81 meeting. Woz talks about the early history of the Apple, some of its technical development, and the computers within them. The tape is 9 oz.

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P6K5 | $18.50 | N/A | 3 Bls., 9 oz.

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