

**FREE LCD PEN WATCH**  
with the purchase of a Commodore 64

# "THE COMMODORE 64"

**COULD BE THE  
MICROCOMPUTER INDUSTRY'S  
OUTSTANDING NEW PRODUCT  
INTRODUCTION SINCE  
THE BIRTH OF THIS INDUSTRY."**

—SHEARSON/AMERICAN EXPRESS

The Commodore-64, which Shearson/American Express said "could be the microcomputer industry's outstanding new product introduction since the birth of the industry," gives home and business users powerful 64K computing capability along with exciting three-dimensional-style color game graphics and music synthesis. At the suggested retail price of \$595.00, the Commodore-64 offers one-third more computing power than the Apple II+® at less than one-half its suggested retail price.

Physically resembling Commodore's popular VIC 20 computer, the Commodore-64 can use VIC 20 peripherals, and goes far beyond the VIC's capabilities. With the addition of a cassette interface, the Commodore-64 can use many programs and files created for Commodore's sophisticated line of PET and CBM education- and business-oriented computers. And with the addition of an IEEE-48 cartridge, the Commodore-64 can run any Commodore peripheral, including a dual disk drive and a CBM printer.

For those programs that need conversion, the Commodore-64 has a PET emulator that makes it operate like a PET in most areas. One of its most impressive features is its ability to use a Z80 cartridge to run CP/M®, giving users access to one of the largest collections of microcomputer software available.

Computerists can use the Commodore-64's versatility to synthesize music and play all the exciting games designed for the new Commodore MAX Machine. Its 40 column x 25 line screen and 16 colors give it great flexibility for users to create their own graphics characters and games. And its 64K Random Access memory (RAM) gives it the capability for sophisticated home and business applications.

The Commodore-64 relies on state-of-the-art integrated circuits designed and produced by Commodore's subsidiary, MOS Technology. The heart of the Commodore-64 system is a new microprocessor, the 6510. The 6510 is similar to the MOS 6502—the chip that made microcomputing a household occupation—but contains additional input/output (I/O) lines to handle the processing required by the new system.

*Apple II+ is a registered trademark of Apple Computer, Inc.*



## THE COMMODORE 64™

FEATURES	COMMODORE "64"	APPLE II+®	IBM®	TANDY TRS-80®III
Base Price (Mfg Suggested Retail : 5/10/82)	\$595	\$1530	\$1565	\$999
Price doesn't include disk drive or printer				
<b>Advanced Personal Computer Features:</b>				
Built-in user memory	64K	48K	16K	16K
Programmable	YES	YES	YES	YES
Real typewriter keyboard	YES(66 keys)	YES(52 keys)	YES(83 keys)	YES(65 keys)
Graphics characters (from kybd)	YES	NO	NO	NO
Upper & lower case letters	YES	Upper only	YES	YES
Max. 5¼" disk capacity per drive	170K/1000K	143K	160K	178K
<b>Audio Features:</b>				
Sound generator	YES	YES	YES	NO
Music synthesizer	YES	NO	NO	NO
Hi-fi output	YES	NO	NO	NO
<b>Video Features</b>				
TV output	YES	EXTRA	EXTRA	NO
<b>Input/Output features</b>				
"Smart" peripherals	YES	NO	NO	NO
<b>Software Features</b>				
CP/M® option (over 1,000 pkgs)	YES	YES	YES	YES
<b>Game Machine Features:</b>				
Cartridge slot	YES	NO	NO	NO
Game controllers	YES	YES	YES	NO

**ATTENTION  
ALL ACCREDITED SCHOOLS  
BUY TEN COMMODORE 64 Systems  
GET ONE FREE COMMODORE 64  
SYSTEM**

# 64K=\$595

**YOU DON'T NEED  
A PERSONAL COMPUTER  
TO FIGURE OUT WHICH  
PERSONAL COMPUTER  
TO BUY.**

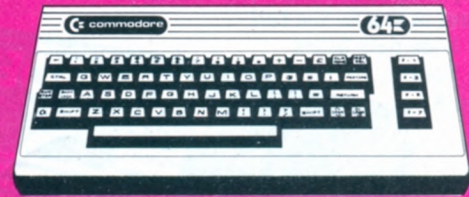
## COMMODORE 64

An independent organization will soon release the following software—

Shpg Wt:  
2 lb each

Software for VIC 20 and Commodore 64	
<b>ATARI Loader</b>	<b>79.95</b>
Load the VIC with this program first, then load Atari programs directly into the computer. Makes all Atari programs run on the VIC. Specify CMCW100T for tape, CMCW100D for disk.	
<b>APPLE Loader</b>	<b>79.95</b>
Enables the VIC 64 to run all the Apple programs. Emulates the Apple II+ and increases the availability of software for Commodore Computers. Specify CMCW101T for tape, CMCW101D for disk.	
<b>TRS-80®</b> (registered Trademark of the Tandy Corp.)	<b>79.95</b>
Emulator for TRS-80® Computers. Permits Radio Shack programs to run on the VIC. Specify CMCW102T for tape, CMCW102D for disk.	

**SPECIAL OFFER**  
FREE WITH THE PURCHASE OF ONE  
**COMMODORE 64 Computer at \$595.00**  
**ONE 12" GREEN MONITOR OR**  
**ONE COMMODORE DATASETTE OR**  
**\$100 DISCOUNT ON THE COMMODORE**  
**SPECIAL SOFTWARE PACKAGE**  
**CONTAINING 600 Educational**  
**Programs in 52 Diskettes**  
**OR \$100 OFF PURCHASE PRICE**  
**OF Model 1541 SINGLE DISK DRIVE**



**OUTSTANDING OFFER  
FROM COMMODORE**  
**Educational Software Package of Six  
Hundred (600) programs in 52 Diskettes**  
**at the extremely low price of \$395.00**  
**Especially designed and made for the**  
**Commodore 64.**  
**Retail: \$500.00**      **Your Cost: \$395.00**

### COMMODORE 64 SYSTEMS SPECIFICATIONS

#### SYSTEM UNIT

**Microprocessor:** 6510, designed and produced by Commodore's MOS Division. Uses the same instruction set as the 6502, but has additional input/output lines.

**Memory:** 64K of RAM. 39K are user-accessible for BASIC programs; 52K for machine language programs. 20K of internal ROM contain the operating system and Commodore BASIC language.

**Keyboard:** Full-size typewriter style. 66 keys, upper and lower case. Four unassigned programmable function keys. Color and the full set of 64 PET graphics can be selected directly from keyboard.

**Display:** 40 columns by 25 lines, 255 combinations of border/background colors, 16 text colors and use of all 64 PET graphic characters. High-resolution graphics mode of 320 x 200 pixels for exceptional detail and clarity in games or animation. Can use 16 colors simultaneously. 8 independently movable Sprites can be created for games and animation. Each is 21 x 24 pixels, and may contain up to three colors.

**Sound:** 6581 Sound Interface Device provides music and sound to rival even some dedicated music synthesizers. Produces three independent voices, each with a range of nine octaves. Four waveforms are available: sawtooth, triangle, variable pulse and noise. Includes programmable ADSR (attack, decay, sustain, release) generator. Programmable filter can be individually selected for each voice; provides low-pass, high-pass, band-pass or notch outputs. Variable resonance and master volume control.

#### COMMUNICATIONS

The Commodore 64 accepts a low-cost VICMODEM™ through its eight-bit user port, giving it access to other computers over ordinary telephone lines. The modem allows users to gain access to large data bases such as The Source, CompuServe and Dow Jones News/Retrieval Service.

#### PERIPHERALS

The Commodore 64 will support:

**Datasette Recorder:** A low-cost tape unit which allows the storage of programs and data on standard audio tape cassettes.

**Single-Disk Unit:** Uses standard 5¼-inch floppy diskettes to store programs and data. Each diskette holds up to 170,000 characters of information. Disk units include their own microprocessors and memory systems, and therefore don't require memory resources from the Commodore 64 main unit. The Commodore 64 will support up to five single-disk units.

**Printer:** The VIC 1515 printer attaches directly to the Commodore 64 without additional interfaces. Prints 30 characters per second, dot-matrix. Uses plain tractor-fed paper.

**Interface Cartridges:** Specialized cartridges allow the Commodore 64 to use various standard devices, including printers, controllers and modems.

**PET Emulator:** Allows users to run most of the programs designed for PET systems with little or no modification.

**Audio and Video Connections:** Direct outputs from the Commodore 64 connect audio signals to high-quality stereo systems, and video signals to a monitor.

**Cartridge Slot:** Will accept games and other applications designed for Commodore 64 or Max Machine™ on plug-in cartridges.

**Other Interfaces** provide access for two joysticks, four game paddles or a lightpen.

#### SOFTWARE

Commodore has already created a variety of programs in several categories for the 64 and has plans for much, much more. Business, personal, entertainment and educational applications make the Commodore 64 an enormously useful and versatile tool.

#### CP/M®

A Z80 microprocessor on a plug-in cartridge makes an enormous amount of software available to users of the 64 system. By plugging the optional microprocessor into the 64's 8-bit user port, the user enables the Commodore to run programs written in CP/M®.

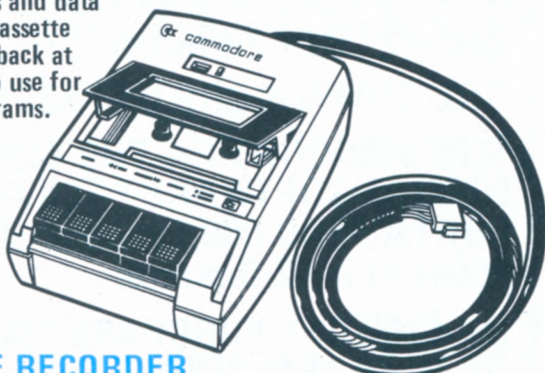
CP/M® is a registered trademark of Digital Research, Inc. Preliminary release information. Specifications subject to change.

# COMMODORE 64

**HARDWARE OPTIONS**—The COMMODORE 64 will support many VIC 20 storage devices and accessories—Datasette Recorder, Disk Drive, Modem & Printer, Interface Cartridges—so the system can expand to keep pace with changing needs.

This low cost tape unit enables programs and data to be stored on cassette tape and played back at a later time. Also use for pre-written programs.

Item No. CMC2N  
Shpg WT: 5 lbs



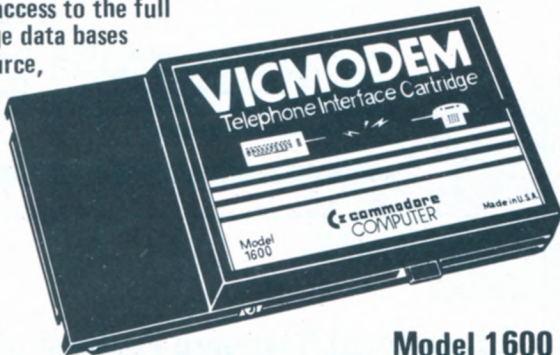
**Model C2N**

**\$59.95**

## DATASETTE RECORDER

Allows access to other computers over ordinary telephone lines. Users will have access to the full resources of large data bases such as The Source, Compu-Serve & Dow Jones News Retrieval Svc.

Item No. CMVC1600  
Shpg Wt: 3 lbs



**\$99.95**

## VICModem

**Model 1600**

## INTERFACE TO ELECTRONIC TYPEWRITERS

Interface to Electronic Typewriters  
Many of the presently installed electronic typewriters will be able to be interfaced to the Commodore 64. They can be used as output printers.

Call for  
Availability

## INTERFACE CARTRIDGES

A number of specialized cartridges will be available for the Commodore 64 that allow various standard devices such as modems, printers, controllers and instruments to be attached to the system.

Call for  
Availability

## IEEE-488 CARTRIDGE

The Commodore 64 will support the full range of CBM peripherals including disk units & printers.

Call for  
Availability

## PET EMULATOR CARTRIDGE

Allows users to run the majority of programs designed for PET systems with minor, if any, modification.

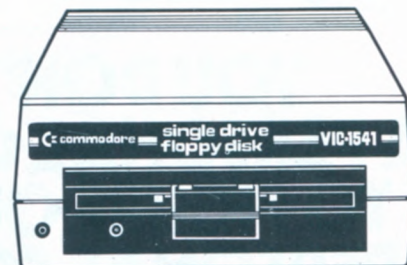
**\$29.95**

## SPECIAL SCHOOL OFFER! ATTENTION ALL ACCREDITED SCHOOLS

**BUY TEN COMMODORE 64 Systems  
GET ONE FREE  
COMMODORE 64 SYSTEM**

## DISK DRIVE

Single 5¼" disk drive uses standard floppy diskettes. Holds up to 170,000 characters of info each. Disk units have their own microprocessor & memory, & require no resources from the 64. Up to 5 disk drives can be attached to each Commodore 64, giving on-line storage capability of 850,000 characters.



**Model 1541**

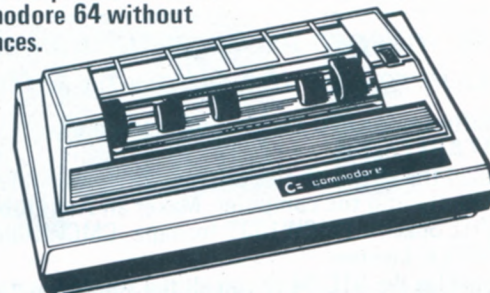
Item No. CM1541  
Shpg Wt: 15 lbs

**\$339.95**

## GRAPHIC PRINTER

30 character per second dot-matrix printer uses plain tractor feed paper and other inexpensive supplies. The printer attaches directly to the Commodore 64 without any additional interfaces.

**\$339.95**



Item No. CM1525E  
Shpg Wt: 15 lbs

**Model 1525E**

## more hardware

**CMCW010H IEEE Interface** Shpg Wt: 1 lb **99.95**  
Permits usage of any IEEE device or any cartridges to be used with VIC 20 or Commodore 64. Also includes reset button. Adapter will be needed for the Commodore 64.

**CMCW011H 64 IEEE Adapter** (see CMCW010H) **39.95**

**CMCW012H VIC Cable** Shpg Wt: 5 lbs **24.95**  
Ten feet long, enables connection of 2 VICs, a VIC & Commodore 64 or VIC with any other Commodore Computer. Especially useful in multiple systems, such as classrooms, etc.

**CMCW013H Stringy Floppy** Shpg Wt: 5 lbs **195.00**  
High speed continuous tape data device which plugs directly into the VIC or Commodore 64. Compatible in capacity and speed to single disk (1540/41)—an economical alternative to the disk drive.

**CMCW014H IEEE Cable** Shpg Wt: 5 lbs **59.95**  
Connects the MIC or IEEE Interface with any IEEE device.

**CMCW015H Atari Cartridge Adapter** (Call for price & availability)  
Enables all Atari cartridge games and programs to be run on the VIC or Commodore 64 computers.  
64 IEEE adapter required for Com. 64.

**CMCW016H Light Pen** Shpg Wt: 1 lb **79.95**

**CMCW017H Reset Button** Shpg Wt: 1 lb **14.95**

**commodore**  
COMPUTER

# SOFTWARE FROM COMMODORE

<p><b>CM64CALC</b>    <b>EasyCalc</b>    <b>\$99.95</b></p> <p><i>The largest electronic worksheet available. 65 col &amp; 999 rows, with the ability for the matrix to 'grow' onto the diskette as needed. Ability to print out all formulas &amp; assumptions. Selective row reporting &amp; printing. Instant 'what if' type calculations. Integration of different size and type matrices. Up to 20 user defined functions per spreadsheet.</i></p> <p><b>Use for Budgets, Cash Flow Forecasting, Product &amp; Resource Plans, Stock Fluctuations, Trend Analysis, Agricultural Yields, Floor Planning Models, . . . even Football Statistics.</b></p>	<p><b>CM64PLOT</b>    <b>EasyPlot</b>    <b>\$99.95</b></p> <p><b>Produces: Bar Charts, Scatter Diagrams, Pie Charts, Line Graphs</b></p> <p><i>Full page printing of all charts and graphs. Integration with EasyCalc for data, or allows the user to input up to eighty data points directly. Will plot up to four data series at a time, depending on the type of plot required.</i></p> <p><b>Use to analyze the relationship between different data sets, chart data such as population trends, stock price fluctuations, or most any numerical information. Interpret &amp; present numerical data with high quality charts and graphics.</b></p>	<p><b>CM64FIN</b>    <b>EasyFinance</b>    <b>\$79.95</b></p> <p><i>Buy vs. Lease, Loan Analysis, Payback Analysis, Future Value of Ordinary Annuities, Future Value of Annuities Due, Future/Present Values, Profit Margin</i></p> <h2>COMMODORE 64</h2> <p><b>Let EasyFinance help you decide. . . whether to buy or lease, what is your monthly payment, the effect of inflation, how much you can afford to borrow, how much is tax deductible.</b></p>
<p><b>CM64SCPT</b>    <b>EasyScript</b>    <b>\$99.95</b></p> <p><i>This wordprocessor provides the user with all of the options of much larger products, like Wordcraft and Wordpro &amp; even more. This product actually allows the Commodore 64 user to get into the wordprocessing market and compete with comparable products at half the price.</i></p> <p><i>Features: Text width from 40 to 240 cols; interface to different printers; total and complete cursor movement allowed, within a page and between pages; function keys for frequently used options; search &amp; replace; vertical and horizontal tabs; range selection for text movement options; outprint to printer, disk, 'fill' files; scroll left, right, up and down; support user defined characters; underline, bold, shadow, super/superscript, on supported printers; right margin justification or alignment.</i></p> <p><b>Let EasyScript. . . prepare daily typing assignments; prepare statistical documents; eliminate retyping documents because of author revision.</b></p>	<p><b>CM64LESS</b>    <b>EasyLesson</b>    <b>\$39.95</b></p> <p><i>Features. . . the ability to easily create a lesson pool of questions from which subsequent tests or quizzes may be generated; each lesson may be printed out for clarity; the user has up to seven categories into which the questions may be classified; the generation of a test from the lesson pool can be directed either printer or disk, and the test itself may be restricted to questions of a certain category.</i></p> <p><b>Let EasyLesson help the gifted student excel in a subject while teaching computer literacy at the same time.</b></p>	<p><b>CM64SCHD</b>    <b>EasySchedule</b>    <b>\$79.95</b></p> <p><i>The ability to tailor certain areas of the program to your specific scheduling needs. Input of data in easy logical steps. Day, week, month &amp; year at a glance lets you see the scheduled items by time slots. The ZOOM option lets you zero in on smaller &amp; smaller time slots. Organization of data by priorities.</i></p> <p><b>Let EasySchedule. . . schedule your time &amp; resources for optimum productivity; be your appointment diary; be your project planner &amp; coordinator.</b></p>
<p><b>CM64QUIZ</b>    <b>EasyQuiz</b>    <b>\$39.95</b></p> <p><i>Features. . . the ability to administer the test created in EasyLesson. It asks for the student name &amp; the name of the test that the student wishes to take. The test questions can be randomly shuffled before they are displayed. The test itself can be taken in either a "flash card" mode or a "multiple choice" mode. The student is graded at the end of the session.</i></p>	<p><b>CM64WORD</b></p> <p><b>The Word Machine</b>    <b>\$29.95</b></p> <p><i>This is Commodore's most easy-to-understand wordprocessing product, and is designed as an entry level product for the home. It is perfect to jot down a note to the kids, letters to friends and so on.</i></p> <p><i>Features. . . simple, easy to understand menu options; allows overtyping, insert and delete of text in an easy to understand "building block" approach. Three print formats, draft, informal and formal; allows the user to tailor, to a certain degree, the program so that it personalizes documents with a letterhead and supports different printers. Will generate personalized form letters via a link to Commodore Name Machine, its companion program.</i></p>	<p><b>CM64FILE</b></p> <p><b>EasyFile</b>    <b>\$99.95</b></p> <p><i>EasyFile is a database product that allows the user to define the data he wishes to keep track of, how it looks on the screen and the ability to enter &amp; retrieve that data with editing &amp; selective criteria.</i></p> <p><i>FEATURES—Simple instructions and "on line" help functions; individual field editing on entry to prevent bad data from being entered into the system; ability to add, change, delete, report on, and search for the data in any manner required. The program is memory resident, so the entire disk is free for data; sorting of the data may be accomplished with up to 8 levels of dependence.</i></p> <p><b>Let EasyFile. . . eliminate manual filing systems; eliminate lengthy searches for information.</b></p>
<p><b>CM64NAME</b></p> <p><b>The Name Machine</b>    <b>\$29.95</b></p> <p><i>Features. . . simple creation of a name &amp; address list; prompts are given for last, first, title, organization, address, state &amp; zip, phone &amp; category. One or two abreast address label print; can generate a personal telephone book; can generate a name &amp; address file to be used in form letter; can select names &amp; addresses by category.</i></p>	<p><b>CM64LOGO</b>    <b>LOGO</b>    <b>\$99.95</b></p> <p><i>Commodore has contracted with the original authors of this favorite graphics language to put it on Commodore 64. The adaptation will be complete &amp; similar to the Apple LOGO, plus extensions that really show off the power of the sprite graphics. LOGO features. . . graphics definition &amp; movement; text display; multi-level graphic character display; easy-to-use instructions and uses the Commodore defined keyboard for screen editing.</i></p>	<p><b>CM64PILO</b>    <b>PILOT</b>    <b>\$99.95</b></p> <p><i>Pilot features. . . all of the features defined as "Common Pilot"; interfaces for video disk/tape players to help get into the industrial education market; because the adaptation is based around Common Pilot, certain lessons that are already in the field may be modified to run under our PILOT with little change. This allows the Commodore 64 to become an even more useful educational machine.</i></p>

# SOFTWARE

## CM64MAIL Commodore Mail Mate \$49.95

A full-featured name & address program for the serious user that requires a complete name & address system for small business, club or organization.

Features. . . allowance of entry/change/deletion of a name & address by number or name; one or two abreast address labels; a complete printout of the system is possible showing all information; the capability to search & sort any field for creating special lists or mailings; a 'help' function that is available at all times. The ability to interface with 'The Word Machine'.

## CM64PRO3 WordPro III \$49.95

The popular full-featured text processor adapted to run on the Commodore 64 features. . . All of the text processing options available on larger machines at a fraction of the cost. The ability to be used as a general text processor processing tool as well as a word processor; automatic centering & pagination; easy insertion of superscripts, subscripts, headers & footers; global search & replace; interfaces with many other business packages; user friendly.

## CM64EDIT Commodore Screen Edit \$69.95

A programming tool that allows the user/programmer to design application programs using a fully-featured screen editor. Features: Takes care of data field definition & editing; positions cursor from field to field, forwards & backwards; allows the fast & effective design of screen. A very useful programming tool for the person who is serious about creating professional software.

## CM64VIDM Commodore Video & Music Support Package \$69.95

A programming tool that is really an extension of to our BASIC language that facilitates the use of superior graphics, color and sound features of the Commodore 64. Features. . . prevents the user or programmer from having to 'massage' certain places inside the computer's memory to create a color or sound. Allows the use of simple commands to create color or sound.

## CM64TUTR Commodore 64 Computer Tutorial \$69.95

A learning experience providing the user with sufficient information to correctly understand and operate the computer features.

Features: Starts at an elementary level & graduates to a level displaying the more complex features of the computer. Explains the color & sound features in great detail, as well as the BASIC language. Teaches the novice the function of the various keys in an interactive and entertaining session. Reveals the simplicity of desktop computing.

## CM64PETM PET Emulator \$29.95

An emulator that will allow a high level of existing PET software to be executed on the Commodore 64. Gives the user the ability to recapture the tremendous amount of software that has been generated on the PET product. Effective translation of an existing program to run on a completely different machine.

## CM64ASMB Commodore 64 Assembler \$49.95

An Assembly language development system allows the experienced user to write software in Assembly language. Allows the total extraction of the machine power and function while developing applications that run at maximum speed. The package contains the assembler itself, two machine code monitors, editor, DOS wedge and two loaders.

## CM64BTUT Commodore Basic Language Tutorial Call for best price

A learning BASIC tool that guides the user from the 'beginner' stage to a medium level of proficiency. It is designed with minimal computer terms; provides periodic checkpoints to measure progress; is designed for the first time computer user. It has a multi-lesson approach to the subject.

## CM64MUSC Meta Music I \$69.95

A music tutorial that allows the novice as well as the serious composer to create music on the Commodore 64. FEATURES: displays all phases of the computer's sound capabilities in detail; demonstrates examples of tempo, harmony, and composition and examines them from the programmer's point of view, as well as practical usage. It is disk and RS232 printer compatible, has two modes of operation, SCORE & PLAY. It will implement various music education processes. The features of the Commodore sound chip is limitless for it actually houses the capabilities of a fully featured music synthesizer.

## CM64DOS Commodore 64 DOS Wedge Call for Availability

A disk operating system aid. . . allows the user, in direct mode or from within program mode, to easily utilize the disk as a storage device. Supports such commands as Load, Save and Directory in short format from the keyboard. Allows the user a dynamic 'short cut' around protocol restraints of Basic in the Commodore 64.

## CM64PASC UCSD Pascal P-System (available Jan '83)

The 4.0 UCSD Pascal language currently available on our larger systems will operate on the Commodore 64. The current 4.0 version will be upgraded to 4.1 if possible. The adaptation will provide to the public the lowest priced p-system anywhere.

## COMMODORE & the NEAR FUTURE

Call for availability

### ASSEMBLER TUTOR—

#### FEATURES:

An introduction into the how's and how not's of assembler programming. A multi-lesson approach to the subject. Each lesson brings the user new examples and instruction into the subject. It will contain tests so that the user may measure progress, or that the product may be used in a school environment.

### BASIC COMPILER—

#### FEATURES:

This product is an adaptation of the popular PETSPEED product for the 8032. This compiler is simple to use and will generate code that gives the user up to 40 times speed increase.

### COMAL—

This popular European public domain language is being adapted for use with the Commodore 64. It has many significant language features and has been compared to BASIC and PASCAL combined.

## OUTSTANDING OFFER

## FROM COMMODORE—

## ATTENTION ACCREDITED SCHOOLS—

BUY 10 VIC-20 Systems — Get 1 FREE

BUY 10 SP-9000 Systems — Get 1 FREE

BUY 10 Commodore 64 Systems —

Get 1 FREE

## EDUCATIONAL SOFTWARE SPECIAL—

Educational Software Package of 600 programs in 52 Diskettes, especially designed & made for the Commodore 64.

Retail: \$500.00

Your Cost: \$395.00

# HIGHLY RECOMMENDED FOR SCHOOLS—GREAT UNIT FOR EDUCATIONAL PURPOSE!

ATTENTION SCHOOLS—  
BUY 10 SYSTEMS, GET ONE FREE!

COMMODORE SP9000

## SuperPET News from Waterloo

Waterloo Computing Systems Limited is primarily engaged in the development of portable software that will operate on a variety of computer systems. One of Waterloo's recent developments includes programming language processors designed for use with microcomputers. Their software was made available first by Commodore with the SuperPET.

### 6502 Assembly-Language Development System

A software package has been written for developing assembly language programs to execute on the 6502 microprocessor. Using this package, 6502 machine-language programs are prepared using the microEditor, a 6502 Assembler and a Linker which produces an executable "module" in a disk file. These components of the package operate on the SuperPET, in 6809 mode, and have functional characteristics which are almost identical to the 6809 Development System included in the original SuperPET software package (i.e., macros, structured programming, long names, bank-switch support, etc.)

Another component of the system is a program which converts a 6502 program file from Waterloo Linker format to Commodore "LOAD" format. This means that programs, which are linked to operate in the direct 32KB User RAM memory and converted, can be brought into memory for execution with the Commodore "LOAD" command. Such programs can operate on a SuperPET in 6502 mode or on other Commodore models such as the 8032 and 4032.

Two additional components of this package operate in 6502 mode on the SuperPET. Both of these components have been developed to support use of bank-switched memory for the execution of 6502 machine-language programs. The first component is a loader which reads Waterloo Linker-format files into both direct and bank-switched memory for execution. The

Suggested  
Retail:  
**\$1995.00**



School  
Special

second component is a program which supports execution of programs in bank-switched memory. Using this package, a 6502 machine-language application that makes use of the entire 96K byte RAM memory of the SuperPET can be developed conveniently.

### "Bank-Switching" of Existing BASIC 4.0 Applications

An enhancement package for Commodore BASIC 4.0 facilitates use of bank-switched memory for fast operation of existing large application packages. This package operates on the SuperPET in 6502 mode.

Currently existing application packages written in BASIC 4.0 which are larger than 32K bytes, often are "modularized" into various functional component programs. Component programs are brought from disk files into memory, one at a time, for execution using the Commodore "LOAD" command. This new package makes use of the additional bank-switched memory of the SuperPET to hold copies of the component programs of an application. During execution of the application, component programs are "LOADED" from bank-switched memory at memory-to-memory transfer rates, instead of coming from disk. This facility can dramatically increase the performance characteristics of ex-

isting CBM 8032 application packages executing on the SuperPET.

### Terminal Emulation Support

The existing software on the Commodore SuperPET enables it to be used as a simple terminal in passthrough mode. This support has certain shortcomings for serious use. A new software package provides substantially enhanced terminal emulation support for the Super PET. The package includes interrupt-driven, buffered input from the host line. This prevents loss of received characters during certain screen operations such as scrolling, when using data rates of up to 9600 baud.

Additional keys have been defined to enable transmission of the "BREAK" condition and the ASCII control characters. A local/remote echo setting allows optional display of characters transmitted to the host computer. Special character sequences transmitted from the host computer can be used for terminal control operations such as x-y cursor positioning, screen-clear, et cetera. Optional XON/XOFF support for both transmission and reception of data avoids data overruns without requiring large buffers. In addition to supporting the ASCII character set, an alternate mode provides APL characters with standard overstrikes.

**Additional Commodore Hardware** Call for Shpg Wts.

**COMMODORE DISK DRIVES**

CM2031	CBM 2031	595.00
CM4040	CBM 4040	1295.00
CM8050	CBM 8050	1795.00
CM8250	CBM 8250	2195.00
CMD9060	D 9060	2995.00
CMD9090	D 9090	3495.00

**PRINTERS FROM COMMODORE**

CM4022	CBM 4022	495.00
CM8023P	CBM 8023P	995.00
CM8300P	CBM 8300P	1995.00

**PERIPHERALS FROM COMMODORE**

CM8010	CBM 8010	280.00
CM4010	CBM 4010	250.00

**CABLES FROM COMMODORE**

CMIEEE	IEEE-IEEE	49.95
CMPET	PET-IEEE	39.95

**SPECIAL OFFER SOFTWARE**

**OUTSTANDING OFFER FROM COMMODORE**

Educational Software Package of Six Hundred (600) programs in 52 Diskettes at the extremely low price of \$395.00 Especially designed and made for the Commodore 64.

**ADDITIONAL COMMODORE SOFTWARE IN PROGRESS...**

**COMMODORE COMMUNICATIONS SOFTWARE**

Three separate software packages will be available. The range in capabilities is from a simple dumb terminal to a very sophisticated electronic mail and messaging system.

**Term-64** Level I software is the VICTERM I package translated to operate on the Commodore 64 and the P and B series computers.

**Home Terminal** Level II software will be for the consumer who wants to use his computer for more than accessing the Source, etc.

**Intraoffice Terminal** Level III software is designed for the business user. This software will allow internal electronic mail, reports sending, auto dial/answer, etc. In other words, it is first class and fully loaded.

FEATURE	TERM-64 Level I	HOME TERMINAL II	Intraoffice Terminal III
Cassette	x		
Cartridge		x	
Disk program			x
Terminal mode	x	x	x
Menu-driven	x	x	x
Selectable baud rate	x	x	x
Full/half duplex	x	x	x
Stop bit	x	x	x
Parity	x	x	x
Line feed/carriage return	x	x	x
PET to PET/PET to ASCII	x	x	x
Async only	x	x	x
Support autodial/autoanswer		x	x
Transmission of disk file		x	x
Error check w/automatic retry		x	x
Disk, cassette and printer dump		x	x
Simultaneous print and receive		x	x
Printer buffer for carriage return			x
Modifiable error check protocols			x
User selectable receive protocols			x
User defined macros/macro retention			x
Telephone number retention			x
Editor			x
Electronic mail with password option			x
Data compression			x
Terminal simulation (Hazell500, Leir Seig)			x
Help Statements in software			x
Error warning statements sent by software			x



**BRAND NEW SOFTWARE for the SuperPET SP-9000**

Shpg Wt:	CMSPCALC	EasyCalc	\$149.95
1 lb ea	CMSPLOT	EasyPlot	149.95
	CMSPFIN	EasyFinance	124.95
	CMSPSCAN	EasyScan	124.95

**"B Series" Product Comparison**

FEATURE	"BX256"	"APPLE III"	"IBM PC"
Price <sup>1</sup>	\$2995	\$3045	\$3495
Built-in Memory Storage	256K	64K	128K
Maximum Memory	256K internal/640K external	256K	256K
Disks Included (5 1/4")	2	1	1
Disk Storage Included	340K	320K	140K
BASIC Language in ROM	YES	YES	NO
CP/M Software Option <sup>2</sup>	YES	YES	YES
Detachable Keyboard	YES	YES	NO
Real Time Clock	YES	YES	YES
<b>AUDIO</b>			
Sound Generator	YES	YES	YES
Music Synthesizer	YES	NO	NO
<b>VIDEO</b>			
Display	80 Column	80 Column	80 Column
Built-in Display	YES	EXTRA	EXTRA
<b>INPUT/OUTPUT</b>			
IEEE-488 Bus	YES	NO	NO
RS-232 Communications	YES	YES	YES

<sup>1</sup> Prices based on standard Apple III with 128K; IBM PC model 824 with 64K (with 256K, the IBM would cost \$4,665).  
<sup>2</sup> CP/M is a product of Digital Research. Specifications subject to change.

see for yourself

# COMMODORE BX256 Microcomputer 16-BIT, 256K Multiprocessor

*Suggested Retail:*

**\$2995.00**  
*(approx.)*

## THIS IS WHAT YOU GET—

Featuring 256K of user memory (RAM), the newly designed BX256 is an enhanced version of Commodore's "B" series microcomputers, and will offer two processors, including a 16-bit 8088 for CP/M-86, Release 1\* compatibility. The BX256 also features an attached 80-column green phosphor screen and built-in dual disk drives. It is expandable to a maximum of 256K RAM internally with potential for 640K externally, and can accommodate an optional Z-80 processor board.

In addition to internal improvements, the BX256 offers the new external "Look" of all "B" series computers. Its screen, with an 80 columns by 25 lines display, may be adjustable with separate tilt and swivel controls, and its detachable keyboard is designed to be placed against the main unit to conserve space, but may be moved away from the screen for typing comfort.



A full-sized, typewriter keyboard with a separate professional numeric keypad is standard with all "B" series microcomputers. The keypad also includes a double zero key, a "clear entry" key and a double-size "enter key" for ease of operation. In addition to the standard individual cursor control, the B256 features 10 programmable "function keys" that can be used to perform specialized tasks.

A Commodore-designed chip—the 6581 microprocessor—gives the BX256 a full three-voice music synthesizer, with nine octave ranges. The circuit's sophistication is capable of producing many different effects. It's

system includes output for direct connection to external sound systems and features a cartridge slot for instant plug-in of application and game software.

The full range of Commodore CBM peripherals are supported by the BX256 via a built-in IEEE-488 interface, and the built-in RS-232 interface allows the connection of standard computer devices such as modems and printers.

A wide variety of software will be offered for the B128 to provide users with various business, personal, entertainment, and educational applications.

## Commodore B256 Microcomputer

### 'B' SERIES

#### USER MEMORY (RAM)

Standard . . . . . 128K  
Maximum . . . . . 256K internal/  
640K external

PERMANENT  
MEMORY (ROM) 40K

SOUND SYNTHESIZER YES

## INCLUDES:

**DUAL DISK DRIVES,  
500 K each**

**GREEN 80 Column  
Monitor**

PROCESSOR  
(standard) . . . . . 6509  
Optional . . . . . Z-80

DISPLAY  
80 Col. x 25 Line  
Integral Display  
Green Phosphor  
Screen

### INTERFACES . . . .

IEEE-488  
RS232  
CBM Cassette  
8-Bit User Port  
Direct Audio/Output

Cartridge Slot

### KEYBOARD

Detachable 94-key  
—10 function keys  
—Numeric keypad  
—Editing & Cursor  
Control keys

INTEGRAL DISKS . . . . YES  
Standard Language . . . . BASIC 4.0  
Optional Languages . . . . CP/M, CP/M-86  
UCSD Pascal  
Real Time Clock . . . . . YES

*Suggested Retail: \$1995.00 to \$2495.00*



# Commodore P128 Microcomputer

## 3rd Generation of its Popular PET Series



# \$995.00

### LOOK AT WHAT YOU GET—

#### 128K of RAM, Color, CP/M Compatibility

The P128, which connects directly to a television set or monitor via built-in RF modulator, features 128K of RAM, 40 columns by 25 lines display, and 16 colors for either text or graphics. The P128 also features a high resolution graphic display of 320 by 200 pixels.

In addition to the basic 128K of RAM, storage in the P128 is expandable to a maximum of 256K RAM internally and 640K externally. This third-generation machine also becomes a multiprocessor system. A Commodore-designed Z-80 processor board that offers CP/M\* compatibility.

Also featured in the revolutionary P128 are 10 programmable "function" keys, which can be used to perform any number of specialized tasks, as well as a number of editing keys including "individual cursor control."

Music synthesis is yet another standard feature of the new "P" series microcomputers. The P128 can stand alone or be attached directly to a high quality sound system, thus enabling users to enjoy the full range of sounds that the P128 is capable of producing.

The new P128 and all "P" Series micros support the full range of Commodore CBM peripherals via the built-in IEEE-488 interface, and the built-in RS-232 interface allows for easy connection of standard computer devices including modems and printers.

FEATURE	P128	Apple II+
Price <sup>1</sup> .....	\$995	\$1,530
Built-in Memory Storage .....	128K	48K
Maximum Memory .....	512K	256K
BASIC Language in ROM .....	YES	YES
CP/M Software Option <sup>2</sup> .....	YES	YES

#### Audio

Sound Generator .....	YES	YES
Music Synthesizer .....	YES	NO

#### Video

Display .....	40 Column	40 Column
Color .....	YES	YES
Modulator Included .....	YES	NO

#### Input/Output

IEEE-488 Bus .....	YES	NO
RS-232 Communications .....	YES	Not Inc.

#### Game Machine

Cartridge Game Slot .....	YES	NO
Game Controller Ports .....	YES	YES

<sup>1</sup> Price based on suggested retail for 48K Apple II+

<sup>2</sup> CP/M is a registered trademark of Digital Research.

### 'P' SERIES

#### USER MEMORY (RAM)

Standard .....	128K
Maximum .....	256K internal/ 640K external

PROCESSOR (standard) .....	6509
Optional .....	Z-80

PERMANENT MEMORY (ROM) 40K

SOUND SYNTHESIZER ..... YES

#### DISPLAY

40 Col. x 25 Line  
Color TV or Monitor  
16 Colors  
320 x 200 dot high  
resolution mode

#### INTEGRAL DISKS .....

Standard Language .....

Optional Languages .....

Real Time Clock .....

#### KEYBOARD

Integral 94-key  
—10 function keys  
—Numeric keypad  
—Editing & Cursor  
Control keys

NO

BASIC 4.0  
CP/M\*, CP/M-86  
UCSD Pascal\*\*  
YES

#### INTERFACES

IEEE-488  
RS232  
CBM Cassette  
8-Bit User Port  
Direct Audio/Video  
Output  
Cartridge Slot  
Control Ports



**Take home the future, today.**

Computing has never been easier. Timex has built-in some truly unique features that make the 1000 so easy to use that even your children can use and enjoy it right away! The 1000 hooks up easily to any TV and cassette recorder. The 40 key pressure sensitive keyboard features 22 graphic characters and 22 special characters. The program language is easy to use BASIC. Plus, the unique "one-touch" word entry system eliminates a great deal of typing. Key words (RUN, LIST, PRINT, etc.) have their own single-key entry. It features automatic error detection and simple editing procedures. Even after you enter your commands the program will ask you: if you really meant a command, or if you want to consider a change. The 24-line black and white TV display includes bar graphs and other animation. In no time you'll be creating programs tailored to your own specific needs. Put computing at your fingertips with the Timex Sinclair 1000.

**It's you AND the computer!**

All this computing power is packed into a unit that's only 6 7/8 x 6 1/2 x 1 1/8" and weighs just 12 ounces! If the technology had been available a few years ago, this much computing power would have required tons of bulky equipment. The Timex Sinclair 1000 puts that power in a package that's portable, lightweight and smaller than a printing calculator!

Whether you use your Timex Sinclair 1000 for your home: to help track and control household budgets, expenses, income tax and financial records; for your business: to control inventory, manufacturing or other critical costs; for your children's education: to give them a head start on the computer age or as an educational tool that can be used for both tutorial help or advanced learning; or for your family's entertainment—the Timex home computer puts the power of the computer both technologically and financially within your reach!

**\$99.95**

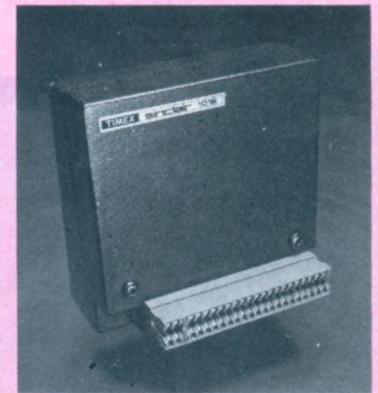
**FREE with the purchase of one Timex computer— ONE LCD 5 function pen watch.**

Shpg Wt: 3 lbs

The Timex Sinclair 1000 personal computer features:

- Single-key entry of commands — LIST, RUN, PRINT, etc.
- Unique syntax-check and report codes for immediate error identity
- Full range math and scientific functions — accurate to nine and one-half decimal places
- Graph drawing and animated display
- Advanced 4-chip design — microprocessor, ROM, RAM, and Master Chip — combining power, portability and truly affordable price.

Timex Sinclair 1000 Software Programs are conveniently stored on cassette for easy use. All require an audio cassette recorder and the TS1016 expansion module.



**TIMEX** **sinclair 1016**

You can expand the capacity of your Timex Sinclair 1000 from 2K to 16K with the TS1016 Memory Module. It conveniently snaps into the back of the computer, increasing the storage data characters from 2,048 to 16,384. This Random Access Memory (RAM) Module is required for use with any of the pre-programmed software cassettes. Expand your computer's capabilities and your horizons for the unbelievably low price of \$49.95!

**\$49.95**

Shpg Wt: 1 lb

**Timex Software**

**Home**

- The Organizer**—Store names, addresses, phone numbers, birthdays, anniversaries, etc. **TS032000** ..... \$16.95
- The Budgeter**—Keep track of your budget in 18 different categories such as food, mortgage, etc. **TS032001** ..... \$15.95
- The Loan/Mortgage Amortizer**—Compare the cost of loans from different banks and more. **TS032002** ..... \$14.95
- The Checkbook Manager**—Store all your banking transactions. Keep a running balance of your account. **TS032003** ..... \$15.95
- The Coupon Manager**—Keep track of store coupons by item, store, and valid dates. **TS032004** ..... \$12.95
- The Car Pooler**—Keep track of car usage by driver, destination, date, and time. **TS032005** ..... \$14.95
- The Stamp Collector**—Inventory and store up to 600 Scott numbers in a single session. **TS032006** ..... \$16.95
- The Stock Option Analyzer**—You can evaluate stock options quickly. Last trading day calculated by computer. **TS032007** ..... \$16.95

**Education**

- Super Math**—5 levels of difficulty. It's like having a math teacher at your fingertips! **TS033000** ..... \$14.95
- States and Capitals**—Drill yourself on the fifty states and their capitals. **TS033001** ..... \$12.95
- The Flight Simulator**—You are in control of an aircraft with full controls and instrumentation. **TS033002** ..... \$19.95

**Business**

- Vu-Calc**—Construct and calculate large tables for financial analysis, budget sheets and projections. **TS031000** ..... \$19.95
- Inventory Control**—Keeps track of inventory levels, suppliers, reorder levels for up to 400 items. **TS031001** ..... \$19.95
- Manufacturing Control**—A comprehensive system for labor and material costs for up to 150 products. **TS031002** ..... \$19.95
- Critical Path Analysis**—Identify critical activities in a project for efficient scheduling. **TS031003** ..... \$19.95
- Statistics**—Includes statistics, regression, trend, CHI squared test, and graphic plotting (does not require expansion module). **TS021000** ..... \$9.95

**Entertainment**

- Chess and Chess Clock**—Chess at six different levels of play. You can even switch sides. **TS034000** ..... \$14.95
- Backgammon and Dice**—Backgammon is easy to learn, fast and exciting; a blend of chance and skill. **TS034001** ..... \$14.95
- The Gambler**—Blackjack and slot machine. Enter your bet and collect your winnings! **TS034002** ..... \$14.95
- The Cube Game**—The cube can be displayed in 3 views: solid, two-dimensional, or see-thru (3D). **TS034003** ..... \$12.95
- Grimm's Fairy Trails**—A super fast maze game with six different levels of play. **TS034004** ..... \$14.95
- The Mixed Game Bag**—Bowling, robot war, and bingo all in one fun-filled cassette. **TS034005** ..... \$9.95

Buy six pieces of software at the above prices and get a FREE LCD pen watch. All Software Shpg Wt: 1 lb

**MEMOTECH CORPORATION**

If you own a Timex-Sinclair 1000 or ZX81 computer, you should have a Memopak behind it. From increased memory to high resolution graphics, Memotech has a Memopak to boost your system's capabilities. Every Memopak peripheral comes in a black anodised aluminum case and is designed to fit together in "piggy back" fashion to enable you to continue to add on and still keep an integrated system look.

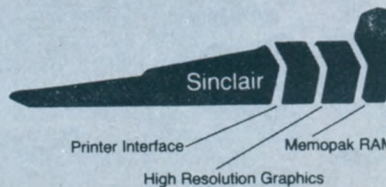
**Memopak 64K RAM** The 64K RAM extends the memory of your Sinclair by 56K to a full 64K. It is directly addressable, user transparent, is neither switched nor paged and accepts such basic command as 10 DIM A (9000). The Memopak 64K turns your Sinclair into a powerful computer suitable for business, recreational and educational use. No additional power supply is required.

**Memopak 32K RAM** The 32K RAM Memopak offers your Sinclair a full 32K of directly addressable RAM. Like the 64K Memopak, it is neither switched nor paged and enables you to execute sophisticated programs and store large data bases. It is also fully compatible with Sinclair's or Memotech's 16K RAM to give you a full 48K of RAM.

**Memopak 16K RAM** The Memopak 16K RAM provides an economical way to increase the capabilities of your Sinclair. And at the same time, it enables you to continue to add on other features with its "piggy back" connectors. It is compatible with the Sinclair 16K or a second Memopak 16K or Memopak 32K to give 32K or 48K of RAM respectively.

**Memopak High Resolution Graphics** The Memopak HRG contains a 2K EPROM monitor and is fully programmable for high resolution graphics. The HRG provides for up to 192 by 248 pixel resolution.

**Memopak Printer Interface** The memotech centronics parallel or RS232 printer interface paks enable your Sinclair to use a wide range of compatible printers (major manufacturers' printers available through Memotech at significant savings). The resident software in the units gives the ASCII set of characters. Both Memopak printer interfaces provide lower case character capabilities. The RS232 Interface is also compatible with modems.



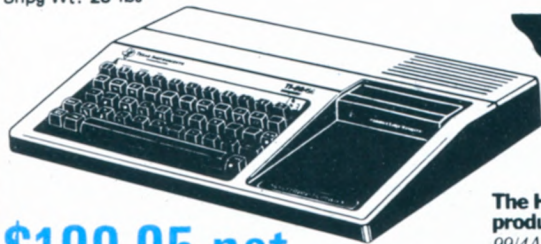
**MEMOTECH Memopak Peripherals**

Item No.	Description	Your Cost
MT64K	64K RAM	\$179.95
MT32K	32K RAM	109.95
MT16K	16K RAM	59.95
MTCPPI	Centronics Parallel Printer Interface	104.95
MTRS232	RS232 Printer Interface	139.95
MTHRG	High Resolution Graphics	144.95

New products coming soon Memotech will soon be introducing four new Sinclair compatible products: a high quality, direct connection keyboard, a digitizing tablet, a 16K EPROM and a disk drive.

All Software Shpg Wt: 1 lb

Item No. T1994A  
Retail: \$450.00  
Shpg Wt: 25 lbs



# Texas Instruments Home Computer

**\$199.95 net**

\*NET cost AFTER \$100 REBATE from TI! Offer good thru Jan. 31, 1983. You pay OSC \$299.95 & receive coupon for \$100 rebate from TI.

**\$100 REBATE**

from TI

**TEXAS INSTRUMENTS**

### The Home Computer's product features

**99/4A Console:** 9900 family CPU, 16 bit microprocessor, 16K bytes for RAM (expandable to 52K) 26 bytes of internal ROM, up to 30K bytes of external ROM, (Solid State Software™ Command Cartridges), total combined memory: 76K bytes. Typewriter style keyboard, sound features 3 simultaneous tones from 110 HZ to 40,000 HZ, video resolution: 256 x 192 upper and lower case capability, single line overlay for second function. Control key and function key. Graphics in 16 colors with 4 modes and sprites, power 60 HZ, 20W, 110V.

**Solid State Speech™ Synthesizer:** Resident vocabulary of over 300 words (with use of Speech Editor Solid State Software™ Command Cartridge or Pascal, unlimited vocabulary with Terminal Emulator II).  
**Disk memory drive and controller:** Utilizes single-sided, single density floppy disk, 1 to 3 disk memory drive capability, store up to 90,000 bytes of information and define up to 127 files on each diskette. (Note: disk controller has capability to operate double sided disk drives.)  
**Memory Expansion:** Adds 32 bytes of random access memory to the Home Computer's console. (TI Extended BASIC, P-Code Peripheral Editor Assembler, Mini-Ram, or TI LOGO required)

**RS-232 interface:** Baud rates up to 9600, all parameters software programmable, two bi-directional serial ports (EIA RS-232C standard) RS-232 card includes Centronics compatible parallel port.  
**Telephone Coupler Modem:** Data rate: D-300 BPS EIA RS-232C, Bell 103 compatible.  
**RAM Expansion:** 32K bytes of Random Access Memory.  
**80 column printer:** Speed of 80 characters per second, 9 x 9 dot matrix printhead, 40, 66, and 132 column printing, programmable lines spacing, vertical and horizontal tabulation, and a programmable buzzer, both normal and real density graphic modes.

## enjoy FREE SPEECH

### FREE Solid Speech Synthesizer Offer!

If you buy any SIX TI Solid State Software Command Modules or two TI Software Albums between Sept. 1, 1982 and Jan. 31, 1983, TI will send you the remarkable SYNTHESIZER FREE!

Item No. TIP1500  
Retail: \$149.50  
Shpg Wt: 12 lbs



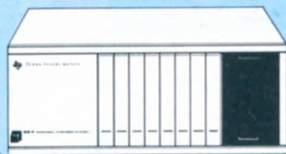
**\$119.95**

### Solid State Speech™ Synthesizer

Reproduces human speech electronically — and accurately. Plugs directly into the Home Computer's built-in connectors without external cables. Lets it communicate verbally, ideal for children too young to read the screen. Requires Speech Editor, Terminal Emulator II or other customized command modules that use speech (sold separately). The Terminal Emulator II Command Module provides text-to-speech capability whereby you can listen to data base information or have the computer say anything within your own program.

**\$199.95**

Item No. TIP4100  
Shpg Wt: 30 lbs



## Peripheral Expansion System

Lets you start simple, then gradually build up a sophisticated system by plugging in additional hardware cards. It centralizes most of your hardware in one place, eliminating extra cables and clutter. Accommodates the disk memory system, RS-232 Interface, memory expansion option, and more.

### Accessories Disk Memory System:

The Texas Instruments Disk Memory System is a powerful combination of computer hardware and software that allows you to store and retrieve data quickly and accurately on 5¼ inch single-sided or double-sided diskettes (sold separately). The most important use of the disk system is storage and retrieval of information via TI BASIC programs.

### DISK CONTROLLER CARD

The Disk Controller Card tells a disk drive where to position the magnetic head in order to read or write information properly. The controller also puts an index on the disk, making the data that has been written easy to locate. It can control up to three Disk Memory Drives.

### DISK MEMORY DRIVE

The disk drive reads information from and writes information on the diskette. It can rapidly locate any position or file on the diskette as directed by the Disk Drive Controller. The disk drive spins the diskette at a constant speed and controls the movement of the magnetic head. There is a special compartment in the Peripheral Expansion System for easy installation of one TI Disk Memory Drive.

### DISK MANAGER COMMAND MODULE

The Disk Manager Solid State Software™ Command Module helps you maintain the information on your diskettes. Naming and renaming diskettes, renaming files, deleting files, copying files, and copying diskettes all can easily be performed with the Disk Manager Module plugged into the computer console.

The Texas Instruments disk system represents a major advance over other systems. Because the

control software needed for the disk system is in permanent ROM, in the Disk Manager Command Module, and in the controller, the disk system uses a relatively small amount of working space in the computer's available memory (RAM).

**RS-232 Card:** The RS-232 Interface Card, with up to two serial ports, lets you hook up to a wide range of serially formatted accessories. It also has one parallel port to utilize a printer.

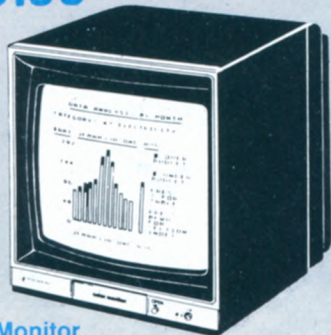
**Memory Expansion Card:** Increases the Home Computer's random access memory (RAM) from 16K bytes to 48K bytes. It allows you to run more complicated programs and solve complex problems faster.

**P-Code Card:** Allows the computer to access the UCSD p-System\* and a variety of programming languages, including UCSD Pascal\*, BASIC, and Pilot. High-level languages are compiled to an intermediate language called pseudo-code or p-code. The P-Code Card interprets the p-code instructions, which are then executed by the computer. Solid state implementation of operating system software allows a single drive system to execute Pascal programs and a dual drive system to develop programs.

TIP1200	Peripheral Expansion Box	199.95
TIP1220	RS-232 Card	149.95
TIP1240	Disk Controller Card	199.95
(one Disk Manager module packed w/each Disk Controller)		
TIP1250	Expansion System Disk Drive (Disk Drive Controller required)	319.95
TIP1260	Memory Expansion Card (32K RAM)	239.95
TIP1270	P-Code Card (32K RAM Memory Expansion required)	199.95
TIP1600	Telephone Modem (RS-232 required)	199.95
TIP1700	RS-232 Accessories Interface	199.95
TIP2200	Memory Expansion (32K RAM)	319.95

**\$339.95**

Item No. TIP1200  
Shpg Wt: 12 lbs



### 10" Color Monitor

Gives you excellent color resolution (192 x 256 dot density) and a display format for 24 lines of 32 characters. Because our Home Computer connects directly to the video input on the Color Monitor, it eliminates any interference and tuner distortion. You get a picture quality that is far superior to that of normal TV reception.

## The Mini-Memory Solid State Software Command Cartridge



### Call for best price

The Mini Memory module contains a total of 14K bytes of memory. This memory consists of 6K bytes of Graphics Read Only Memory (GROM), 4K bytes of Read Only Memory (ROM), and the 4K bytes of RAM.

## Wired Remote Controllers **\$34.95**

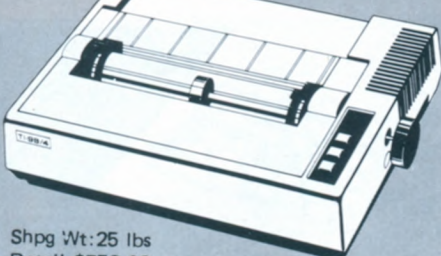
Let you move objects on screen. Each unit includes an eight-position remote control with top-mounted action button. An important accessory every serious game-player should have.

## Telephone Coupler (Modem) **\$199.95**

Allows you to send and receive messages, data, and entire programs through a standard telephone. Lets you communicate with similarly equipped computers at remote locations, and access data bases and software services. Uses the RS-232 Interface and Terminal Emulator II packages.

## TI Impact Printer **Item No. TIP2500**

**\$589.95**



Shpg Wt: 25 lbs  
Retail: \$750.00

This quiet, high performance & low cost impact printer features 80 characters per second bi-directional printing, three type sizes and four distinct printing densities. The TI Impact Printer also features a long-life 9x9 dot matrix print/head that's easily replaced for fast repairs. The printer can handle 40, 66, 80 and 132 column widths and can print text or graphic data. Requires an RS232 Interface.

## TEXAS INSTRUMENTS

### PERIPHERALS

TIP1200	Peripheral Expansion System*	199.95
TIP1220	RS-232 Card*	149.95
TIP1240	Disk Controller Card* (One Disk Manager module packed with each Disk Controller)	199.95
TIP1250	Expansion System Disk Drive* (Disk Drive Controller required)	319.95
TIP1260	Memory Expansion Card* (32K RAM)	239.95
TIP1270	P-Code Card* (32K RAM Memory Expansion required)	199.95
TIP1280	Pascal Development System** — Includes P-Code Card (PHD 1270), UCSD Pascal* Compiler (PHD 5063), UCSD P-System** Assembler/Linker (PHD 5064) and UCSD System** Editor/Filer Utilities (PHD 5065) (32K Memory Expansion, Disk Drive and Controller are required)	399.95
TIP1500	Solid State Speech™ Synthesizer	119.95
TIP1600	Telephone Coupler (Modem) (RS-232 required)	199.95
TIP1700	RS-232 Accessories Interface*	199.95
TIP1800	Disk Drive Controller* (One Disk Manager module packed with each Disk Controller)	239.95
TIP1850	Disk Memory Drive (Disk Drive Controller required)	399.95
TIP2500	TI Impact Printer** (32K RAM)	589.95
TIP2200	Memory Expansion* (32K RAM)	319.95
TIP2300	Video Controller (The Video Controller is intended for industrial and commercial use. It is not intended for use in a home).	539.95
TIP2400	P-Code Peripheral* (32K RAM Memory Expansion required)	319.95
TIP2100	R.F. Modulator (TV Adapter)	49.50
TIP1100	10" Color Monitor	339.95

### OPTIONAL ACCESSORIES

TIA1100	Wired Remote Controllers (Joysticks) (Pair)	34.95
TIA1950	Thermal Paper (2 Pack)	9.95
TIA2000	Dual Cassette Cable	14.95
TIA2010	Monitor Cable	19.95
TIA2200	Audio Adapter (Headphone Jack)	19.95
TIA2310	Panasonic Video Controller Cables	89.95
TIA2320	User's Reference Guide (TI-99-4A only)	89.95
TIA2330	Pioneer Video Controller Cables	89.95
TIA2605	Blank Overlays (4 Pack) (for TI-99-4)	7.95

### DOCUMENTATION

TIA2600	Beginner's BASIC Manual (TI-99-4 only)	9.95
TIA2601	User's Reference Guide (TI-99-4 only)	9.95
TIA2602	Beginner's BASIC Manual (TI-99-4A only)	9.95
TIA2603	User's Reference Guide (TI-99-4A only)	9.95
TIA2606	Creative Programming Computer Competency Series — Volume I	9.95
TIA2607	Creative Programming Computer Competency Series — Volume II	9.95
TIA2608	Creative Programming Computer Competency Series — Volume III	9.95
TIA2609	Creative Programming Computer Competency Series — Allstar Projects	9.95
TIA2611	Logo Curriculum Guide	49.95
TIA2612	Editor Assembler Manual	14.95

### APPLICATION PROGRAMS

<b>Home Management/Personal Finance</b>		
<b>Command Modules</b>		
TIM3006	Home Financial Decisions	29.95
TIM3007	Household Budget Management (Data storage system is recommended)	39.95
TIM3012	Securities Analysis	54.95
TIM3013	Personal Record Keeping (Data storage system is recommended)	49.95
TIM3016	Tax Investment Record Keeping (Disk system is required)	69.95
TIM3022	Personal Real Estate (Data storage system is recommended)	69.95
TIM3044	Personal Report Generator (Data storage system is recommended and PHM 3113 is recommended)	49.95
TIM3111	TI Writer** (32K Memory Expansion, RS232 Printer, Disk Drive and Controller are required) (Available for TI-99-4A only)	99.95
TIM3113	Microsoft™ Multiplan™*** (32K Memory Expansion, Disk Drive and Controller are required, RS-232 and Printer are recommended)	89.95

## Texas Instruments TI-99/4A Home Computer Products

TID5001	Mailing List	89.95
TID5003	Personal Financial Aids	19.95
TID5021	Checkbook Manager	19.95
TID5022	Business Aids Library — Finance Management (Extended BASIC Command Module is required)	39.95
TID5024	Business Aids Library — Inventory Management (Personal Record Keeping or Statistics Command Module and printer are required)	69.95
TID5027	Business Aids Library — Invoice Management (Personal Record Keeping or Statistics Command Module and printer are required)	69.95
TID5029	Business Aids Library — Cash Management (Extended BASIC Command Module is required)	39.95
TID5038	Business Aids Library — Lease-Purchase Decisions (Printer recommended)	69.95
TID5077	Personal Tax Plan* (Aardvark Software Inc.) (P-Code and 32K Memory Expansion are required, RS232 and Printer are recommended)	89.95
<b>Cassette</b>		
TIP6003	Personal Financial Aids	14.95
TIP6038	Business Aids Library — Lease-Purchase Decisions (Printer is recommended)	59.95

### Education/Personal Enrichment Command Modules

<b>Texas Instruments Packages</b>		
TIM3002	Early Learning Fun	29.95
TIM3003	Beginning Grammar	29.95
TIM3004	Number Magic	19.95
TIM3005	Video Graphs	19.95
TIM3008	Video Chess	69.95
TIM3010	Physical Fitness	29.95
TIM3020	Weight Control and Nutrition (Data Storage System is recommended)	99.95
TIM3040	TI Logo (32K Memory Expansion is required)	99.95
TIM3064	Touch Typing Tutor** (Available for TI-99-4A only)	39.95
TIM3109	TI Logo II*** (32K Memory Expansion is required)	99.95
TIM3015	Early Reading (Solid State Speech™ Synthesizer is required)	54.95
TIM3043	Reading Fun (Solid State Speech™ Synthesizer is recommended)	54.95
TIM3046	Reading On**	54.95
TIM3047	Reading Roundup*	54.95
TIM3048	Reading Rally**	54.95
TIM3082	Reading Flight**	54.95
TIM3027	Addition and Subtraction I (Solid State Speech™ Synthesizer is recommended)	39.95
TIM3028	Addition and Subtraction II (Solid State Speech™ Synthesizer is recommended)	39.95
TIM3029	Multiplication I (Solid State Speech™ Synthesizer is recommended)	39.95
TIM3049	Division I* (Solid State Speech™ Synthesizer is recommended)	39.95
<b>Scholastic Packages (Developed by Scholastic, Inc.)</b>		
TIM3059	Scholastic Spelling — Level 3 (Solid State Speech™ Synthesizer is required)	59.95
TIM3060	Scholastic Spelling — Level 4 (Solid State Speech™ Synthesizer is required)	59.95
TIM3061	Scholastic Spelling — Level 5 (Solid State Speech™ Synthesizer is required)	59.95
TIM3062	Scholastic Spelling — Level 6 (Solid State Speech™ Synthesizer is required)	59.95
<b>Addison-Wesley Computer Math Games (Developed by Addison-Wesley Publishing Co.)</b>		
TIM3083	Computer Math Games II**	39.95
TIM3088	Computer Math Games VI**	39.95
<b>Milliken Home Math Series — K thru 8th grade (Developed by Milliken Publishing Co.)</b>		
TIM3090	Addition**	39.95
TIM3091	Subtraction**	39.95
TIM3092	Multiplication**	39.95
TIM3093	Division**	39.95
TIM3094	Integers**	39.95
TIM3095	Fractions**	39.95
TIM3096	Decimals**	39.95
TIM3097	Percents**	39.95

### Diskette

<b>Texas Instruments Packages</b>		
TID5007	Teach Yourself BASIC	34.95
TID5009	Music Skills Trainer	29.95
TID5011	Computer Music Box	19.95
TID5018	Market Simulation	19.95
TID5019	Teach Yourself Extended BASIC (Extended BASIC Command Module is required)	24.95
TID5020	Music Maker Demonstration (Music Maker Command Module is required)	14.95
TID5023	Basketball Statistics (Extended BASIC Command Module is required)	24.95
TID5026	Bridge Bidding I	29.95
TID5030	Speak & Spell™ Program (Solid State Speech™ Synthesizer is required)	29.95
TID5031	Speak & Math™ Program (Solid State Speech™ Synthesizer and Terminal Emulator II are required)	29.95
TID5039	Bridge Bidding II	29.95
TID5041	Bridge Bidding III	29.95
TID5042	Spell Writer (Terminal Emulator II Command Module and Solid State Speech™ Synthesizer are required)	29.95
TID5067	Beginner's BASIC Tutor**	29.95

### MECC Packages (Developed by Minnesota Educational Computing Consortium)

TID5078	Metric and Counting*** (Extended BASIC Command Module is required)	29.95
TID5079	Elementary Economics*** (Extended BASIC Command Module is required)	29.95
TID5080	Elementary Math and Science*** (Extended BASIC Command Module is required)	29.95
TID5081	Astronomy*** (Extended BASIC Command Module is required)	29.95
TID5082	Word Beginnings*** (Extended BASIC Command Module is required)	29.95
TID5083	Exploring*** (Extended BASIC Command Module is required)	29.95
TID5084	Math Practice*** (Extended BASIC Command Module is required)	29.95
TID5085	Science Facts*** (Extended BASIC Command Module is required)	29.95
TID5086	Natural Science*** (Extended BASIC Command Module is required)	29.95
TID5087	Social Science*** (Extended BASIC Command Module is required)	29.95
TID5088	Teacher's Tool Box*** (Extended BASIC Command Module and printer are required)	29.95

### Cassette

TIT6007	Teach Yourself BASIC	29.95
TIT6009	Music Skills Trainer	24.95
TIT6011	Computer Music Box	14.95
TIT6018	Market Simulation	14.95
TIT6019	Teach Yourself Extended BASIC (Extended BASIC Command Module is required)	19.95
TIT6026	Bridge Bidding I	24.95
TIT6031	Speak & Math™ Program (Solid State Speech™ Synthesizer and Terminal Emulator II are required)	24.95
TIT6039	Bridge Bidding II	24.95
TIT6041	Bridge Bidding III	24.95
TIT6042	Spell Writer (Terminal Emulator II Command Module and Solid State Speech™ Synthesizer are required)	24.95
TIT6067	Beginner's BASIC Tutor**	24.95

### Entertainment

<b>Command Modules</b>		
<b>Texas Instruments Packages</b>		
TIM3009	Football	29.95
TIM3018	Video Games I	29.95
TIM3023	Hunt the Wumpus	24.95
TIM3024	TI Connect Four™	24.95
TIM3025	Mind Changers	24.95
TIM3030	A-Maze-Ing	24.95
TIM3052	Tombsone City 21st Century	39.95
TIM3053	TI Invaders	39.95
TIM3054	Car Wars	39.95

TIM3057	Tunnels Man	39.95
TIM3042D	Munches of Doom™ (2 Diskette Games Included)	59.95
TIM3042T	Munches of Doom™ (2 Cassette Games Included)	59.95
TIM3056	Chisholm Trail*	39.95
TIM3110	Parsec**	39.95
TIM3039	Parsec**	39.95
<b>Milton Bradley Packages (Developed by Milton Bradley Company)</b>		
TIM3031	The Attack††	39.95
TIM3032	Blastoff††	24.95
TIM3033	Black and Pokert††	24.95
TIM3034	Hustlet††	24.95
TIM3036	ZeroZap††	19.95
TIM3037	Hangman††	19.95
TIM3038	Connect Four††	19.95
TIM3039	Yahtzee††	24.95
<b>Adventure International Packages (Developed by Scott Adams)</b>		
TIM3041D	Adventure (Pirate Adventure Diskette Game Included)	49.95
TIM3041T	Adventure (Pirate Adventure Cassette Game Included)	49.95
<b>Gabriel Industries Packages (Developed by Gabriel Industries)</b>		
TIM3067	Chiffol† (Developed by Gabriel Industries)	39.95

### Texas Instruments Packages

TID5002	TI-Trek (with optional speech)	14.95
TID5010	Mystery Melody	14.95
TID5015	Oldies But Goodies — Games I	19.95
TID5017	Oldies But Goodies — Games II	24.95
TID5025	Saturday Night Bingo (Solid State Speech™ Synthesizer is required)	29.95
TID5037	Draw Poker (Extended BASIC Command Module required)	24.95
TID5057	Tombsone City 21st Century* (32K Memory Expansion and Extended BASIC Command Module are required)	19.95
TID5058	TI Invaders* (32K Memory Expansion and Either Extended BASIC or Editor Assembler Command Module are required)	19.95
TID5060	Munch Man* (32K Memory Expansion and Either Extended BASIC or Editor Assembler Command Module are required)	19.95
<b>Adventure International Adventure Series (Developed by Scott Adams) (PHM 3041D required)</b>		
TID5046	Adventureland	29.95
TID5047	Mission Impossible	29.95
TID5048	Voodoo Castle	29.95
TID5049	The Count	29.95
TID5050	Strange Odyssey	29.95
TID5051	Mystery Fun House	29.95
TID5052	Pyramid of Doom	29.95
TID5053	Ghost Town	29.95
TID5054	Savage Island I & II	39.95
TID5056	Golden Voyage	29.95

### Cassette

<b>Texas Instruments Packages</b>		
TIT6010	Mystery Melody	9.95
TIT6015	Oldies But Goodies — Games I	14.95
TIT6017	Oldies But Goodies — Games II	19.95
TIT6025	Saturday Night Bingo (Solid State Speech™ Synthesizer is required)	24.95
TIT6037	Draw Poker (Extended BASIC Command Module required)	19.95
<b>Adventure International Adventure Series (Developed by Scott Adams) (PHM 3041T required)</b>		
TIT6046	Adventureland	29.95
TIT6047	Mission Impossible	29.95
TIT6048	Voodoo Castle	29.95
TIT6049	The Count	29.95
TIT6050	Strange Odyssey	29.95
TIT6051	Mystery Fun House	29.95
TIT6052	Pyramid of Doom	29.95
TIT6053	Ghost Town	29.95
TIT6054	Savage Island I & II	39.95
TIT6056	Golden Voyage	29.95

### OTHER APPLICATION PROGRAMS

<b>Command Modules</b>		
TIM3000	Diagnostic	29.95
TIM3001	Demonstration	69.95
TIM3011	Speech Editor (Solid State Speech™ Synthesizer is required)	44.95
TIM3014	Statistics (Data storage system is recommended)	44.95
TIM3026	Extended BASIC	99.95
TIM3035	Terminal Emulator II	49.95
TIM3055	Editor/Assembler (Disk System and 32K RAM Memory Expansion required)	99.95
TIM3058	Mini-Memory	99.95
TIM3045-D	SMU Electrical Engineering Library** (10 Cassettes included)	129.95
TIM3045-T	SMU Electrical Engineering Library** (10 Cassettes included)	129.95
<b>Diskette</b>		
TID5004	Programming Aids I	14.95
TID5005	Programming Aids II	24.95
TID5006	Math Routine Library	29.95
TID5008	Electrical Engineering Library	29.95
TID5012	Programming Aids III (Extended BASIC required)	19.95
TID5013	Graphing Package	19.95
TID5016	Structural Engineering Library	29.95
TID5044	AC Circuit Analysis** (Solid State Speech™ Synthesizer, 32K Memory Expansion and Extended BASIC Command Module are required)	29.95
TID5063	UCSD-PASCAL™ Compiler* (32K Memory Expansion and P-Code required)	124.95
TID5064	UCSD p-System™ Assembler/Linker** (32K Memory Expansion and P-Code required)	99.95
TID5065	UCSD p-System™ Editor/Filer Utilities** (32K Memory Expansion and P-Code required)	74.95
TID5066	TI PILOT™ (32K Memory Expansion and P-Code required)	79.95
TID5068	Course Designer Authoring Package** (Extended BASIC required and Video Controller optional)	169.95
TID5075	Text-to-Speech (English)** (Solid State Speech™ Synthesizer, 32K Memory Expansion and Extended BASIC Command Module are required)	29.95
<b>Cassette</b>		
TIT6004	Programming Aids I	9.95
TIT6006	Math Routine Library	24.95
TIT6008	Electrical Engineering Library	24.95
TIT6013	Graphing Package	14.95
TIT6016	Structural Engineering Library	24.95
TIT6044	AC Circuit Analysis**	24.95

### SOFTWARE LIBRARIES

TIL7001	Home Financial Manager (Data storage system is recommended)	124.95
TIL7002	Home Financial Decisions, Household Budget Management, Personal Real Estate	84.95
TIL7003	The Family Entertainer	84.95
TIL7004	The Elementary Educator* (Solid State Speech™ Synthesizer is recommended)	89.95
TIL7005	Beginning Grammar, Addition and Subtraction II, Early Learning Fun	64.90
TIL7006	The Music Educator* (Data storage system is recommended)	64.90
TIL7007	The Super Programmer*	104.95
TIL7008	Extended BASIC, Teach Yourself Extended BASIC (cassette)	104.95
TIL7009	The Scott Foreman Speaking Math Teacher (Solid State Speech™ Synthesizer is recommended)	104.95
TIL7010	Addition and Subtraction II, Addition and Subtraction II†, Multiplication††	99.95
TIL7011	The Scott Foreman Speaking Reading Teacher (Solid State Speech™ Synthesizer is required)	99.95
TIL7012	Early Reading, Reading Fun	99.95
TIL7013	The Speaking Scholastic Spelling Teacher* (Solid State Speech™ Synthesizer is required)	189.95
TIL7014	Scholastic Spelling — Level 3, Scholastic Spelling — Level 4, Scholastic Spelling — Level 5, Scholastic Spelling — Level 6	104.95
TIL7015	Tombsone City 21st Century, TI Invaders, Car Wars	99.95
TIL7016	The Milton Bradley Game Series	99.95
TIL7017	Blastoff†, Hustlet†, ZeroZap†, Connect Four†, Yahtzee††	99.95
TIL7018	The Computer Introductory Package (Data storage system and Solid State Speech™ Synthesizer are recommended)	104.95
TIL7019	Household Budget Management, TI Invaders, Multiplication II	99.95

\*Course is designed to be used with Circuit Analysis I textbook.



# MULTITECH INDUSTRIAL CORPORATION

THE NEW APPLE COMPATIBLE MICROCOMPUTER WITH 64K OF RAM AT LESS THAN \$350.00  
 THE MULTITECH MPF-II "THE PROFESSOR II"

## COMPARISON BETWEEN APPLE-II AND MPF-II

	APPLE-II	MPF-II
Price (Retail)	US\$ 1330	US\$ 399
ROM	12K	16K
RAM	16K/48K	64K
CPU	6502	6502
Standard Language	Apple-II BASIC	Apple-II Compatible BASIC
Text Character	40x24	40x24
Keyboard	Typewriter type	Compact size (optional typewriter type)
Low resolution graphic	40x48, 16 color	40x48, 6 color
High resolution graphic	280x192, 6 color	280 x 192, 6 color
Optional Languages:		
Assembly	Yes	Yes
PASCAL	Yes	Yes
FORTH	Yes	Yes
Function key	Yes	Yes
Inverse Video	Yes	Yes
B/W video output	Yes	Yes
Cassette interface	Yes	Yes
Speaker	Yes	Yes
Power supply	Yes	Yes
Disk Driver interface	(optional)	(optional)
RS-232 interface	NO	Yes
Video, sound R/F modulator	(optional)	Yes
Printer interface	(optional)	Yes (Centronic interface)
Remote control paddle	(optional)	Yes
Speech synthesizer and Sound generator	NO	Yes (optional)
Oriental characters	NO	
One-touch entry of Basic keyboard	NO	Yes (46 key words)
Graphic character	NO	Yes (50)
Software cartridge interface	NO	Yes
Portability	NO	Yes

Your Cost

**\$349.95**



**MPF-II**

Available now with Cassette Software — In January 1983 will be available with Diskette Software

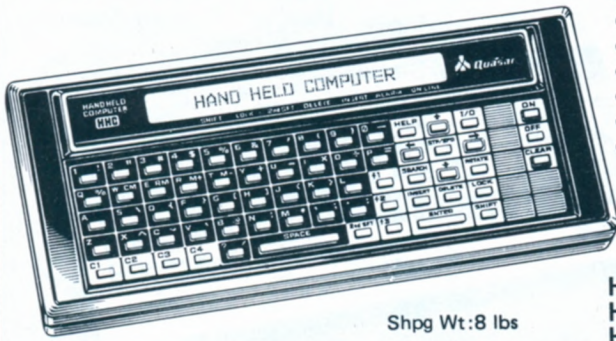
Item No.	Model	Description	Retail	Your Cost
MTMPFII	MPF-II	64K of RAM home computer with many features . . . . .	499.95	349.95
MTCCC	CCC-MPF-II	Chinese Character Controller, makes the Professor II the FIRST microcomputer ever developed which has the capability of processing Chinese Characters. With the CCC, the Microprocessor can access 22,000 Chinese Characters using 64K bytes of Memory, while the commonly used Chinese characters total 4800 . . . . .	249.95	199.95
MTMPFIIC	MPF-IIC	Complete 64K Chinese language computer . . . . .	599.95	479.95
MTPRT	PRT-MPF-II	Printer. Prints 150 lines per minute, each line is 40 characters long. It can print Roman characters, Chinese and Graphics (thermal printer) . . . . .	219.95	179.95
MTDD	DD-MPF-II	5¼ inch Disc Drive with controller w/DOS 3.3 (available January 1983) . . . . .	399.95	269.95
MTCR	CR-MPF-II	Cassette Recorder for MPF-II . . . . .	99.95	69.95
MTSSG	SSG-MPF	Sound/Speech Generation Board. Speech Synthesizer and Sound Generator board, your MPF-II can be used as an electronic organ, synthesize human voices and other computer controlled sounds like gunshots, missiles, whistle, etc. . . . .	189.95	129.95
<b>Item No.</b>	<b>Description</b>		<b>Your cost</b>	
MTFORTH	FORTH language cartridge . . . . .		35.00	
MTASM	ASSEMBLY language cartridge . . . . .		35.00	
MTCASSA	CASSETTE A . . . . .		5.00	
MTCASSB	CASSETTE B . . . . .		9.50	
MTCARTA	CARTRIDGE A . . . . .		19.00	
MTCARTB	CARTRIDGE B . . . . .		35.00	
MTCARTC	CARTRIDGE C . . . . .		40.00	
MTPRT	PAPER . . . . .		20.00	

FREE WITH PURCHASE YOU WILL RECEIVE THE MICRO-NURSE, THE MPF-II SELF DIAGNOSIS MANUAL

# Quasar®

## QUASAR Hand Held Computer

Item Nos.  
QR2600T  
QR2600T  
QR2608T

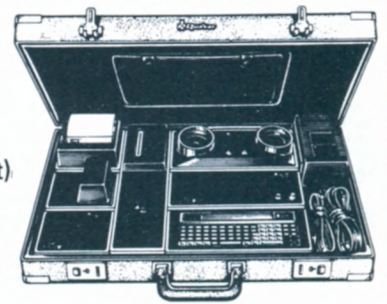


Shpg Wt: 8 lbs

- Keyboard of 65 Reassignable Keys
- 26 Character LCD Display
- Rechargeable Ni-Cad Battery
- Internal Clock
- 44 - Pin I/O Connector
- 3 Capsule Sockets (128K BIT max per socket)
- Includes Unit Carrying Container and Tray

Optional peripherals connect the computer to large mainframes and databases over telephone lines, and to a conventional television receiver for local display. A thermal printer, RS 232C interface and extra memory are also available.

A Quasar computer system in a briefcase.



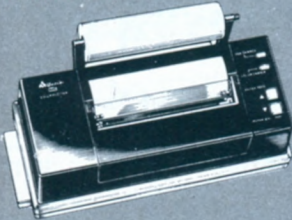
HK2500TE  
HK2600TE  
HK2608TE

6502 Processor with 2K RAM  
6502 Processor with 4K RAM  
6502 Processor with 8K RAM

Retail: \$329.00  
Retail: \$379.00  
Retail: \$479.00

Your Cost: \$279.95  
Your Cost: \$324.95  
Your Cost: \$399.95

### QUASAR PC916 Four Color Plotter



- Graphic in 4 Colors
- Ball Point Pen System
- Resolution of 0.2 mm
- 16 Scales for Character Size
- 'AA' Ni-Cad Batteries (4)

Item No. QR916UE Retail: \$475.00  
Shpg Wt: 6 lbs

Your Cost \$399.95

### QUASAR PC912 Mini Printer



- Thermal Dot Matrix (5x7)
- 40 Characters/Line
- 0.5 Lines/Second
- 'AA' Ni-Cad Batteries (4)

Item No. QR912UE  
Shpg Wt: 8 lbs

Retail: \$295.00

Your Cost \$249.95

### QUASAR PC920 Modem Shpg Wt: 10 lbs PC921 Modem Cassette



- 110 or 300 BPS, Full or Half Duplex
- 1 or 2 Stop BITS, 5 to 8 Data BIT
- 0 to 7 Ignored Data BIT
- Originate or Answer Mode, Odd, Even or No Parity Check
- Enabled or Disabled Xon-Xoff/Auto Line Feed
- Power Supplied by Main Unit
- Model 921 Functions as Cassette Interface also

Item No. QR920TE Your Cost \$212.50 (920)  
Your Cost \$249.95 (921)

### QUASAR PC940/942/943 Programmable Memory 4K/8K/16K



Item Nos.  
QR940TE  
QR942TE  
QR943TE

Shpg Wt: 3 lbs

- CMOS 4K/8K/16K BYTE Static RAM
- Back-Up Battery System
- Power Supplied by Main Unit
- Lets User Add Up to Six Non-Volatile Programmable Memory Units for Up to 96K more RAM

Your Cost \$135.00 (940)  
Your Cost \$212.50 (942)  
Your Cost \$297.50 (943)

# Quasar®

## SOFTWARE - PERIPHERALS - ACCESSORIES



**PC905 RS232C INTERFACE**  
An RS-232C interface that lets serial peripheral devices such as printers be used with the HHC or lets the HHC communicate with other computers.



**QUASAR PC901 I/O EXTENSION CABLE**

### PERIPHERALS - ACCESSORIES

Model No.	Description	Retail	Your Cost	Shpg. Wt.	Item No.
PC900	I/O Adaptor	150.00	135.00	4 lbs	QR900TE
PC901	I/O Cable		85.00	2 lbs	QR901TE
PC905	RS-232C Serial Interface	250.00	212.50	2 lbs	QR905TE
PC911	Micro Printer	225.00	195.00	15 lbs	QR911TE
PC930	TV Adaptor	295.00	249.95	3 lbs	QR930TE
KT657	Attache Case	170.00	149.95	15 lbs	QR657TE
KT674	RS-232C Cable		35.00	3 lbs	QR674TF
KT593	AC Adaptor		45.00	3 lbs	QR593TE



**QUASAR PLUG-IN PROGRAM CAPSULE**



**PC930 TV ADAPTOR**  
A TV display monitor adaptor that lets the HHC become a video display system with color TV or video monitor, providing 16 lines of 32 characters each. It also has semi-graphic modes with 8 colors.

### HAND HELD COMPUTER SOFTWARE

SHPG WT: 3 LBS EACH

Model No.	Description	Your Cost	Item No.	Model No.	Description	Your Cost	Item No.
LK300	SNAP FORTH FORTH-like Language	159.95	QR300TES	LK317	RS-232C INTERFACE Control Capsule for PC905	38.00	QR317TER
LK302	MICROSOFT BASIC Floating Point	77.00	QR302TEB	LK323	GRAPHIC PLOTTER Graphic Generator for Plotter	50.00	QR323UEG
LK303	EXTENDED BASIC Marries 16K Basic w/Snap	149.95	QR303TEB	LK325	TIME/TRAC Significant tool for Billing by Time Accountability	135.00	QR325UET
LK310	PORTAFLEX Easy to use Data Entry Lang. Programming Language	149.95	QR310UEF	LK327	FINANCIALIST Wide Range of Financial Functions	50.00	QR327UEF
LK311	PORTACALC Dynamic Modeling Programming	149.95	QR311UEC	LK330	SCIENTIFIC CALCULATOR Wide Range of Statistical Functions	45.00	QR330TES
LK315	TELECOMPUTING I Dumb Terminal Control Capsule for PC920	38.00	QR315TET	LK336	STATISTIK Wide Range of Statistical Functions	50.00	QR336UES
LK316	TELECOMPUTING II Intelligent T.C.C. for PC920 Allows communication between 2 HHC Systems	42.00	QR316TET	LK341	PORTABUDGET Mobile Manager for Personal Finances	60.00	QR341UEB
				LK342	PORTAWRITER Prepare Textual Material	90.00	QR342UEW

# PC-1500 SOFTWARE Available soon...

## Statistics Library

- S-1 Multiple Linear Regression
- S-2 Random Number Generator
- S-3 Means and Moments
- S-4 Histogram
- S-5 t-Test for Paired Observations
- S-6 t-Test for Unpaired Observations
- S-7 One-Way ANOVA
- S-8 Two-Way ANOVA
- S-9 Contingency Table
- S-10 Rank-Sum Test
- S-11 Normal Distribution
- S-12 Student's-t Distribution
- S-13 F Distribution
- S-14 Chi<sup>2</sup> Distribution
- S-15 Weibull Distribution
- S-16 Exponential Distribution
- S-17 Binomial Distribution
- S-18 Poisson Distribution

## Finance Library

- F-1 Annuities/Annuities Due
- F-2 Rent or Buy Decision
- F-3 Internal Rate of Return
- F-4 Bonds Analysis
- F-5 Discount Present Value
- F-6 Forecasting Analysis I
- F-7 Forecasting Analysis II
- F-8 Machinery Analysis
- F-9 Days Between Dates
- F-10 Depreciation

## Graphics Library

- G-1 GRID
- G-2 LAXES
- G-3 LGRID
- G-4 XAXIS
- G-5 YAXIS
- G-6 F(x)
- G-7 Pie
- G-8 Bar
- G-9 AXES
- G-10 WINDOW
- G-11 CURSOR
- G-12 FXD
- G-13 FRAME

## Mathematics Library

- M-1 Ordinary Differential Equations
- M-2 Fourier Analysis
- M-3 Coordinate Transforms
- M-4 Complex Arithmetic
- M-5 Matrix Arithmetic
- M-6 Integration
- M-7 Special Functions
- M-8 Nonlinear Equations
- M-9 Eigenvalues
- M-10 Interpolation
- M-11 Solution of Linear Systems
- M-12 Solution of Nonlinear Systems
- M-13 Optimization
- M-14 Polynomial Arithmetic
- M-15 Convolution
- M-16 Error Function and It's Complement

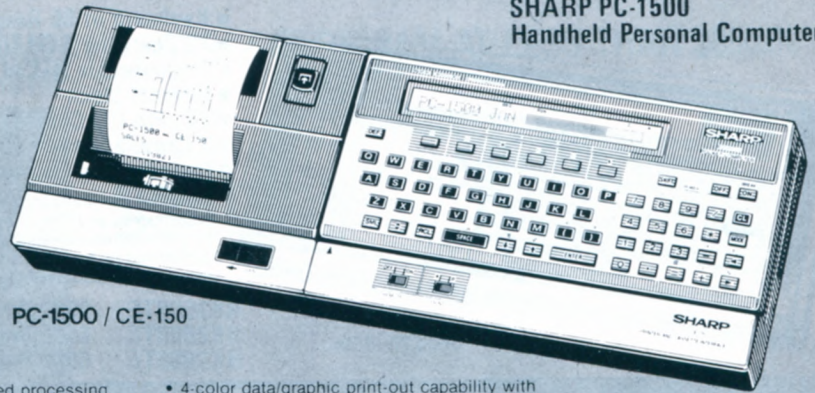
## Electrical Engineering Library

- E-1 Complex Arithmetic with Polar I/O Capabilities
- E-2 Fourier Analysis
- E-3 Network Analysis
- E-4 Bode/Nyquist Calculations
- E-5 Complex Roots of a Polynomial
- E-6 Transistor Parameter Conversions
- E-7 Active Filters
- E-8 Passive Filters
- E-9 Phase-Locked Loop Analysis
- E-10 Series to Parallel Conversions
- E-11 Smith Chart Calculations
- E-12 Signal Detection
- E-13 Multiplication of Polynomials
- E-14 Decibels, Nepers, Power, Voltage, Current Ratio Conversions
- E-15 Reactance Chart
- E-16 Complex Matrix Arithmetic

# SHARP CE-150 4-Color Printer/Cassette Interface for PC-1500

# SHARP

## SHARP PC-1500 Handheld Personal Computer



PC-1500 / CE-150

### Superior Features

- 8-bit C-MOS CPU for high-speed processing with reduced power consumption
- Powerful BASIC with versatile commands and statements
- Huge memory capacity with 16k-byte ROM and 3.5k-byte RAM, expandable to 7.5k-bytes with Memory Module CE-151 or to 11.5k-bytes with CE-155.
- 4-color data/graphic print-out capability with Graphic Printer/Cassette Interface CE-150
- 7 x 156 dot display with graphics
- Typewriter key arrangement
- Six user-programmable keys
- Wide range of applications for business, engineering and hobbies

Your Cost

**\$229.95**

Item No.	Model	Description	Retail	Your Cost	Shpg Wt
SHPC1500	PC-1500	Handheld Personal Computer	\$300.00	\$229.95	7 lbs
SHCE150	CE-150	Printer/Cassette Interface for PC-1500	250.00	199.95	4 lbs
SHCE151	CE-151	4K Byte RAM Expansion Unit	75.00	65.00	3 lbs
SHCE152	CE-152	Cassette Tape Recorder	100.00	88.00	6 lbs
SHCE155	CE-155	8K Byte RAM Expansion Unit	150.00	124.00	3 lbs
SHCE158	CE-158	RS232 Interface	225.00	189.00	3 lbs
SHCE159	CE-159	8K Byte RAM w/Battery Pack	175.00	149.00	3 lbs

### ACCESSORIES

SHEA850B	EA-850B	4 black replacement pens for PC-1500	\$3.95		
SHEA850C	EA-850C	4 color (Black, red, green, blue) replacement pens for PC-1500	3.95		2 lbs ea
SHEA1500	EA-1500P	5 roll pack - roll paper for CE-150	1.95		

## BMC BM-12A 12" Green Phosphor Monitor

- Input Signals: Composite Video Signal, Negative SYNC.  
1.0 +0.5V P-P, 75 ohm
- CRT Size: 31 cm diag. (12 inch diag.)
- Phosphor: P31 (Green)
- Semiconductors: IC 1  
Transistors 14  
Diodes 14
- Video Amp Bandwidth: 15 MHz
- Display Format: 1920 Characters max. (80 char. x 24 lines)
- Power Input: AC 120V, 60 Hz/230V, 50 Hz
- Power Consumption: 26W



Shpg Wt: 24 lbs  
Item No. BMC12A



Your Cost **\$94.00**

## BMC BM-12EN 12" Green Phosphor Monitor

- Input Signals: Composite Video Signal, Negative SYNC.  
1.0 +0.5V P-P, 75 ohm
- CRT Size: 31 cm diag. (12 inch diag.)
- Phosphor: P31 (Green) Non glare
- Semiconductors: IC 1  
Transistors 15  
Diodes 16
- Video Amp Bandwidth: 20 MHz
- Display Format: 1920 Characters max. (80 char. x 24 lines)
- Power Input: AC 120V, 60 Hz/230V, 50 Hz
- Power Consumption: 26W



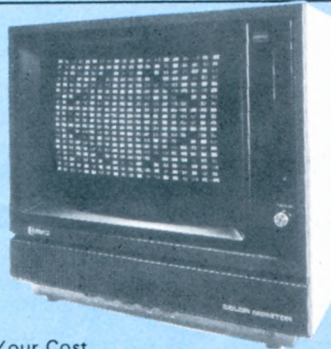
Shpg Wt: 29 lbs  
Item No. BMC12EN



Your Cost **\$159.00**

## BMC BM-1400CL 13" Color Monitor

- CRT: 13V, 90° deflection
- CRT Type: TV-grade, slit type screen
- Input Signal: Composite video signals, 1.0V P-P negative synchronous signals
- Scan Frequency: Horizontal - 15.75 kHz  
Vertical - 60 Hz
- Video Circuit: Amplifier type, Linear
- Horizontal Resolution: 270 lines (at the center)
- Outside Controls: Power (On/Off), Picture, Tint, Color, Brightness, Vertical hold
- Power Input: AC 120 volts 60 Hz (AC 220-240 volts 50 Hz)
- Power Consumption: 58 watts



Your Cost **\$299.00**

## BMC BM-1401RGB 13" Color Monitor/Red, Green, Blue

- CRT: 13V, 90° deflection
- CRT Color: Red, Green, Blue (seven colors)
- CRT Type: 1401 - TV-grade, slit type screen
- Input Signal: Separated signals
- Data Signal: TTL level (Positive)
- Horizontal Drive: TTL level (Negative)
- Vertical Drive: TTL level (Negative)
- Display Area: 250 mm horizontal, 170 mm vertical
- Display Time: 44.7µ sec. x 14.2m sec.
- Scan Frequency: Horizontal - 15.75 kHz  
Vertical - 60 Hz/50 Hz
- Video Amplifier: Digital type, Bandwidth 18 MHz
- Horizontal Resolution: 1401 - 400 dots (at the center)
- Display Format: 1401 - 5 x 7 dots, 25 x 40 Char
- Outside Controls: Power (On/Off), Picture, Focus, Horizontal hold, Vertical hold
- Power Input: AC 120V, 60 Hz/230V, 50 Hz



Item No. **BM1401RG**  
Shpg Wt: **39 lbs**

Your Cost **\$389.00**

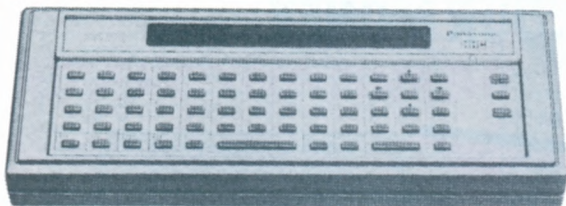
Item No. BM1400CL Shpg Wt: 39 lbs

Your Cost:  
BMC BM-81RGB  
RGB Interface Board **\$99.95**  
RGB Interface Board must be installed for BM-1401RGB monitor to be connected with Apple II. (Board can be attached onto P.C. Board without modification.)  
RE: \$189.95

# Panasonic

## The LINK HANDHELD COMPUTER

**\$374.95**



**4K**



All peripherals sold separately.

• Portable business computer provides 4K bytes of RAM (expandable to 52K) and 16K bytes of read-only memory with a capacity of 64K ROM. • Internally holds three ROM capsules in increments of 2K, 4K, 8K or 16K each. • Easy-to-use keyboard features upper/lower case characters and utilizes a simplified "menu" system to give quick access to any program. • Cursor keys allow you to move the 26 character LCD "window" cursor within a program or memory bank, giving full access to information contained within them. • Rotate feature starts movement of characters across the screen on LCD display. • Utilizes "snap" operating

system that condenses large, complex programs into a small amount of memory space. • When used with a color TV, the Link offers color graphics and charts. • The Link automatically contains an initial menu which consists of the following functions: Internal Clock, Alarm Set, File System. • Features RS232C Serial Interface capabilities (optional peripheral, capsule, and cable required). • Keyboard features 65 positive-action keys, redefinable with overlays. • Dot matrix display (LCD) with an 8 x 159 continuous display. • Powered by built-in NiCad batteries or AC adaptor/charger (not included). • 8-15/16" x 1-3/16" x 3-3/4".

### PA9808 Attache Case

• The Link is the personal portable computer. • When connected, the Link's main unit and peripherals fit neatly into a custom-designed attache case. • Vinyl case with padded interior and detachable lid. • 20-3/4" x 13-1/2" x 3-5/8".



## Panasonic \$147.95

### PROGRAMMABLE MEMORY

• Adds extra Random Access Memory (RAM) to The Link. • Allows internal storage capacity to be currently extended to a maximum of up to 52K bank switchable RAM (using 8K memory modules). • Using 16K RAM modules, the capacity will be 104K bank switchable RAM. • Power supplied by the primary unit. • Battery back-up available by using 3 "AAA" batteries (not included).



PA9002 8K RAM Memory 224.95  
PA9003 16K RAM Memory 314.95

### PA3001 RS232C Serial Interface

• Serial interface allows the Link to be connected to a main-frame computer. • Adds power and versatility to The Link. • Gives the ability to increase the reach and performance to any more powerful computer to which it is added. • Allows The Link to be connected to a large format printer for typing and editing. • Selectable bps. • 5, 6, 7 or 8 data bit. • 1 or 2 stop bit. • 1 slot capsule for required RS232C interface (optional). • Power source from supplied unit or the AC adaptor supplied from the primary unit. • 4-1/2" x 2-13/32" x 3-3/4".



PA9145 RS232C Cable 35.00  
PA6006S6 RS232C Interface Capsule 39.95

### PA6001 I/O ADAPTOR

**\$79.95**

• Allows up to six peripherals of any kind, such as the acoustic modem or extra memory units, to be attached to The Link's main unit. • Peripherals can be attached to any slot (when the slot on the top of the I/O adaptor is used, the I/O cable must be used). • 44-terminal edge connector. • 16-3/4" x 2-1/32" x 12-17/32".



**Panasonic**

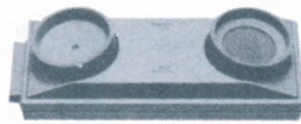
PA6006 86.00

I/O cable for adding 6th peripheral

### PA1800 8K RAM 'Link' Portable Computer Call for best price

PA9498 AC adaptor/charger \$50.00

### PA4001 Acoustic Modem



• Connects the Link to a telephone handset and allows transmitting and receiving information from other computers. • Full or half duplex transmission mode. • 110 or 300 bytes per second transmission speed. • Powered by connecting to the primary unit. • Requires Telecomputing Capsule for operation (not included). • 8-15/16" x 2-7/32" x 3-3/4".

PA6004S6 Telecomputing 1 34.95  
PA6005S6 Telecomputing 2 39.95

### PA4003 Acoustic Modem

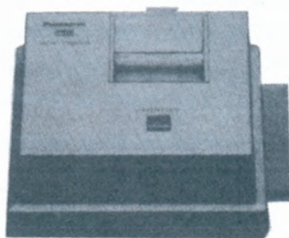
• Acoustic modem with output jacks for interfacing with a cassette recorder.

Call for best price

### PA1003 Micro Printer

• Thermal, dot matrix printer provides a printed record of any program performed or any data generated by the Link. • 5 x 7 dot matrix system. • 15 characters per line. • Prints 1.5 lines per second. • Prints upper/lower case letters, numerals and symbols. • 13-characters per inch. • Accepts 38mm thermal paper (8m in length). • Powered by built-in NiCad batteries which are charged by the AC adaptor through the primary unit. • 4-1/2" x 2-3/32" x 3-3/4".

**\$199.95**

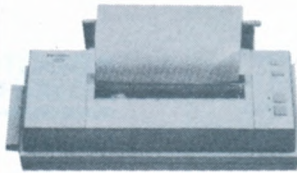


### PA1004 Micro Printer

40-character micro printer

Call for best price

**\$427.95**

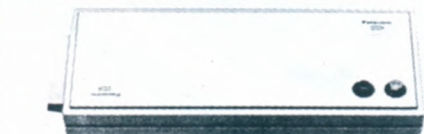


### PA1002 Color Plotter

• 4-color graphic plotting writer prints 6 characters per second (approx.) in black, blue, green and red. • X-Y plotting (up, down, left, right). • Prints upper and lower case letters, numerals, symbols. • 8 types of character spacing include: 80, 40, 26, 20, 16, and 13 characters per line. • Power supplied by built-in NiCad batteries which are charged through the primary unit. • 8-15/16" x 2-9/32" x 3-3/4".

# LINK SYSTEM

## Panasonic



• Connects The Link to a TV set, and/or monitor, so that displayed information can be viewed on a larger screen as typed and edited. • Also allows use of color graphics. • Can be used for telecomputing so that information can be received and viewed right on the TV screen. • 32 characters x 16 lines. • Case letters. • 5 x 7 dot standard. • 8 x 12 dot maximum. • Semigraphic four mode. • Semigraphic six mode. • Power supplied from the AC adaptor through the primary unit. • 8-15/16" x 1-3/16" x 2-3/4".

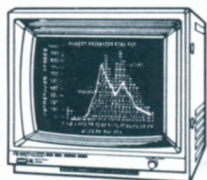
### TV ADAPTOR

**\$319.95**

### PACT160 Dual Mode Color Monitor

**\$319.95**

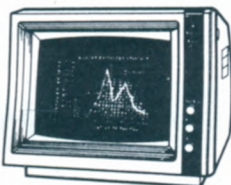
• 10" diagonal color computer display has a unique Dual Mode capability. • Features a front panel switch that changes the display from a full color unit for color graphics or video games to a sharp black and white data display for business use. • Accepts a composite video input signal and incorporates a built-in audio system for use with games or speech synthesizers. • 40 x 25 character display. • High contrast black matrix color CRT. • Video input/output connectors with 75 OHM/Hi Z termination switch. • UL listed. • FCC Class B computing device certification. • 11.75" x 10.75" x 12.75".



### PA120M1P Monochrome Monitor

**\$199.95**

• 12" diagonal display features a direct etched faceplate and sharp, bright, high-resolution. • The composite video input signal provides a simple connection. • Ideal for small business computer applications. • Reproduces 80 x 25 characters. • Built-in audio system. • Computer compatible styling. • Video input/output connectors with 75 OHM/Hi Z termination switch. • UL listed. • FCC Class B computing device certification. • 13.78" x 11.06" x 13.82".



## SOFTWARE FOR THE Panasonic "Link" COMPUTER...

PA6001S7 **Microsoft Basic Capsule** 79.95  
• Microsoft Basic is an easily learned, higher-level language which constitutes an all-purpose tool for writing and debugging "Link" programs and accessing existing microcomputer software.

PA6003S8 **SNAP Capsule** 137.00  
• SNAP capsule provides professional software developers with powerful program capabilities using the "SNAP" language and operating system.

PA6002S8 **SNAP Basic Capsule** 99.95  
• SNAP Basic is a language tool for programmers developing software for The Link. • SNAP Basic combines a sophisticated interpreter and a cross-compiler. • Users type in "BASIC" programs from the keyboard or through peripherals. • "BURN" statement transforms programs into a small capsule image that runs without basic capsule.

PA6005S6 **Telecomputing® 2 Capsule** 39.95  
• Electronic mailman allows sending and receiving of both text and binary files through the Link modem in addition to providing the Link with a dumb terminal mode. • Applications include electronic mail using any current file system, data communications, exchange of files and programs. • Can access time-sharing services and data bases.

PA6004S6 **Telecomputing® 1 Capsule** 34.95  
• Transforms the Link into an intelligent portable terminal possessing review capabilities. • Allows performing a multitude of on-line communications tasks including electronic mail from any location. • Can access Link to popular time-sharing networks such as the Source, Tymshare®, Comuserve or other specialized data base service.

PA6009S6 **Scientific Calculator Capsule** 44.95  
• Provides professionals with a powerful tool for solving an infinite variety of scientific, engineering and business problems. • Allows floating point arithmetic with 12 digits of accuracy, extensive set of functions, 12 variables and a 10-level stack, 3 user-programmable keys for a total of over 40 program steps, RPN capabilities, keys for complete stack manipulation, complete error detection and control.

PA6008S8 **Extended BASIC Compiler/Interpreter Capsule** 149.00  
• 16K byte BASIC compiler combines programming ease of advanced BASIC and compactness and speed of SNAP. • Allows multiple programs, complete command line editing, long variable names, debugging aids, "RESEQ" command to renumber entire program, and Burn command.



# ATARI® HOME COMPUTERS

## ATARI GIVES YOU MORE COMPUTER FOR YOUR MONEY

### ATARI 400 HOME COMPUTER ATARI 800 HOME COMPUTER FEATURES AND SPECIFICATIONS

- Console:** Built-in RF modulator. Connects to any television set via RF cable.
- CPU:** 6502 Microprocessor: 0.56 microsecond cycle. 1.8 MHz.
- Colour:** 16 colours, each with 16 intensities.
- Sound:** Four independent sound synthesizers for musical tones or game sounds. Four octaves. Variable volume and tone. Internal speaker (in addition to audio through television set).
- Memory:** 16K bytes of Random Access Memory (RAM). (Atari 400) 10K Read Only Memory Operating System. Operating System may be expanded with a user installed cartridge programme.
- Keyboard:** 57-key alphanumeric keyboard plus 4 special function keys. (ATARI 400: mono-panel keyboard. ATARI 800: full-stroke keyboard.) Upper/lower case. Inverse video. Full screen editing. Four-way cursor control. 29 graphic keys.
- Languages:** ATARI BASIC, ATARI PILOT, Assembly Language.
- I/O:** Serial input/output port for simple connection to peripherals. Four controller jacks.
- Display:** Highest graphics resolution 320 x 192. 24 lines of 40 characters.
- Power:** AC power adaptor.

Item No. AT400  
Shpg Wt: 15 lbs

### THE ATARI 400 COMPUTER

**BUY an ATARI 400 BEFORE DEC. 31, 1982 & receive coupons worth up to \$60 in rebates from Atari on the purchase of additional software or accessories for the Atari 400.** (Offer expires 12/31/82)

**\$199.95 net**

after software rebate from Atari\*  
(\$259.95 to OSC)



ATARI 400 Home Computer: 13½" x 11½" x 4½"

### THE ATARI 800 COMPUTER

Item No. AT800  
Shpg Wt: 20 lbs

#### ADDITIONAL ATARI 800 HOME COMPUTER FEATURES

**Memory:** 48K byte RAM now standard with the ATARI 800

**Keyboard:** 57 full-stroke keys plus 4 special function keys.

**Monitor Jack:** Composite video output for connection to computer monitor or television set.

ATARI 800 Home Computer: 16" x 12½" x 4½"



A Warner Communications Company

**ATARI 800  
NOW 48K  
\$689.95**

**ONE  
GOOD MIND  
DESERVES  
ANOTHER.**



### ATARI 822 40-Column Thermal Printer

- Dot matrix printer. • Generates hardcopy printout of computer programs and data.
- Prints left to right and right to left. • Provides a full 96 character ASCII set. • Prints up to 37 characters per second, 40 characters per line, upper/lower case, and point graphics. • Full line buffering feature. • Installation is quick and easy with direct connection to the computer console. • I/O data cord, and AC power adaptor are included. • UL approved AC transformer. • 2¼" x 9½" x 7½"



Item No. AT822 **\$269.95**

### ATARI 820 40-Column Printer

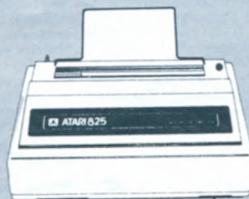
- Printer generates a hardcopy printout of computer data and program material. • 40-column, dot matrix impact printer which prints upper and lower case characters at a rate of 40 per second. • Basic and Assembler Editor cartridges include 820 Printer commands. • Horizontal and vertical alphanumeric characters. • Power switch and indicator light. • Automatic time-out cycle prevents overheating. • Paper advance button. • UL approved built-in microprocessor. • Crystal controlled for data accuracy. • 12" x 9½" x 5½"



Item No. AT820 **\$269.95**

### ATARI 825 80-Column Printer

- Versatile dot matrix impact printer that handles almost any printing task. • Prints lines up to 8 inches long in four different character modes: monospaced (uniformly spaced characters at a density of 10 characters per inch, condensed characters at 16.7 characters per inch, proportionally spaced characters, and double-width characters. • Capable of justifying right margin, execute forward or reverse line feed, half space, and underline. • All character modes and functions are set by control codes from the computer. • Handles three kinds of paper: roll paper (8.5" x 5"), computer grade fanfold paper (9" x 9.5"), and cut sheets (8.5"). • UL approved microprocessor electronics. • Printer connects easily to the 850 Interface Module (optional), which is required for operation of the printer. • 14.5" x 11" x 5".



Item No. AT825

**\$639.95**

### ATARI 410 Program Recorder

- Program recorder provides a method of storing programs and data in computer readable form. • Features playback and recording levels that are permanently set at the correct volume level. • Reads a prerecorded audio track and digital track which allows running programs and listening to voice or music through a television speaker. • Automatic motor control. • UL approved AC power. • Built-in accidental erasure prevention device. • 9-1/2" x 6-3/8" x 2-3/4".



Item No. AT410

**\$89.00**

### ATARI 810 Disk Drive

**\$469.95**

- Disk drive requires a minimum of 16K RAM. • Up to three additional 810 disk drive units can be used. • "Disk busy" indicator light. • Automatic stand-by capability. • Individual device address when more than one disk drive unit is used. • Includes I/O connector, Disk Operating System Master Diskette, AC adaptor, and operator's manual. • 12" x 9-1/2" x 4-5/8".



Item No. AT810



### ATARI 850 Interface Module

Item No. AT850  
Shpg Wt: 15 lbs  
**\$196.95**

• Programmable from Atari Basic and Atari Assembly language. • Four serial interface ports for use with the 830 Acoustic Modem and other EIA RS232C compatible peripherals. • 8-bit parallel output interface port for use with the 825 Printer. • Automatic telephone answering when used with an appropriate modem. • Full duplex operation. • Serial interfaces meet EIA RS232C specifications and allow cable lengths up to 50 ft. • UL approved power adaptor and I/O data cord included. • 9-5/8" x 6-3/4" x 2".

### ATARI 830 Acoustic Modem

Item No. AT830  
Shpg Wt: 8 lbs

Your Cost:

**\$174.95**



• The modem is a stand-alone, acoustically coupled frequency shift keying (FSK) modem. • Allows communications by Atari 400 or 800 Personal Computer Systems, over standard telephone lines when used with the 850 Interface Module. • Modem stands for "modulator-demodulator", and converts data into signals that can be sent over the telephone lines. • The demodulator converts the signal back into data that can be read by the computer. • Controls include: full, test, half, answer, off, and originate mode. • Modem connects through the 850 Interface Module (not incl.). • Includes UL listed wall mount transformer on a six foot cord, and UL approved power adaptor. • 10.2" x 4.7" x 2.3".

### ATARI HOME COMPUTER PROGRAM KITS

#### THE HOME MANAGER™ KIT (AT418)

Personal Financial Management System™ (3 Diskettes)  
The Home Filing Manager™ (2 Diskettes)

**Coming Soon! Call for availability**

#### THE BOOKKEEPER KIT 1-8 (AT419)

Includes:

**\$274.90 VALUE**

The Bookkeeper (4 Diskettes)  
Numerical Keypad<sup>1</sup> (CX85)

Your Cost:  
**\$199.95**

The Bookkeeper Simplified Guide  
The Bookkeeper User's Guide  
The Bookkeeper CX85 Numerical Keypad User's Guide

#### THE ENTERTAINER™ KIT<sup>8</sup> (AT481)

Includes:

**\$101.75 VALUE**

Missile Command™ (Cartridge)  
Star Raiders™ (Cartridge)  
Joystick Controller (Pair)

Your Cost:  
**\$79.95**

#### THE EDUCATOR™ KIT<sup>8</sup> (AT482)

Includes:

**\$174.85 VALUE**

ATARI 410™ Program Recorder  
ATARI BASIC Cartridge  
States & Capitals (Cassette)

Your Cost:  
**\$137.00**

#### THE PROGRAMMER™ KIT<sup>8</sup> (AT483)

Includes:

**\$81.85 VALUE**

ATARI BASIC Cartridge  
ATARI BASIC Reference Manual  
ATARI BASIC Self-Teaching Guide

Your Cost:  
**\$64.95**

#### THE COMMUNICATOR™ KIT<sup>8</sup> (AT484)

Includes:

**\$449.85 VALUE**

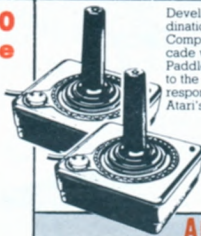
ATARI 830™ Acoustic Modem  
ATARI 850™ Interface Module  
TeleLink™ I (Cartridge)  
TeleLink™ I Instruction Manual

Your Cost:  
**\$329.00**

CompuServe Information Service<sup>9</sup> Package<sup>10</sup>  
Dow Jones News/Retrieval<sup>11</sup> Service Package<sup>10</sup>  
THE SOURCE, AMERICA'S INFORMATION UTILITY<sup>12</sup> Package<sup>10</sup>

#### THE COMMUNICATOR™ II KIT<sup>4,8</sup> (AT488)

**Coming Soon! Call for availability!**



Develop keen hand-eye coordination. Your ATARI Home Computer becomes an action arcade when you add Joysticks or Paddle Controllers. Both plug into the front of your computer, for responsive interaction with Atari's many exciting games.



### ADDITIONAL EQUIPMENT

AT85 Numerical Keypad .....	\$109.00
AT853 16K RAM Memory Module™ (For ATARI 800) .....	89.00
AT30-04 Paddle Controller (Pair) .....	21.00
AT40-04 Joystick Controller (Pair) .....	21.00
AT40 Joystick Controller (Single) .....	10.95

### ACCESSORIES

AT81 ATARI I/O Data Cord (5 feet) .....	\$ 19.95
AT86 Printer Cable (Included with ATARI 825) .....	\$ 49.95
AT87 Interface/Modem Cable (Included with ATARI 830) .....	\$ 39.95
AT88 Interface/Terminal Cable (Used with ATARI 850 to connect to an RS232C-compatible device) .....	\$ 39.95
AT89 Monitor Cable (Color monitor) .....	\$ 49.95
AT82 Monitor Cable (Black & White monitor) .....	\$ 49.95
AT014746 TV Switch Box (Included with ATARI 400 and ATARI 800) .....	\$ 9.95
AT014748 Power Adapter (Included with ATARI 400, 800, 822, 850) .....	\$ 19.95
AT017964 ATARI 810 Disk Drive Power Adapter (Included with ATARI 810) .....	\$ 19.95
AT14854 ATARI 820 Printer Ribbon (Included with ATARI 820) .....	\$ 5.95
AT14062 ATARI 820 Printer Paper (Roll paper, one roll included with ATARI 820) .....	\$ 2.95
AT016376-02 ATARI 822 Thermal Printer Paper (One box contains eight sticks of two rolls) .....	\$ 48.00
AT016087 ATARI 825 80-Column Printer Ribbon (Three per box, one included with ATARI 825) .....	\$ 18.95
AT16233 ATARI 825 80-Column Printer Paper (Roll Paper) .....	\$ 6.95
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Cont'd. on next page

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<sup>1</sup> 1982 Computer Game of the Year, awarded by Video Magazine

<sup>2</sup> Atari, Inc. reserves the right to substitute equivalent value software.

<sup>3</sup> Registered trademark of CompuServe, Inc., an H&R Block company.

<sup>4</sup> Packages include password, instructions and 1 hour free time.

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SWPT0101	SERIES 40-GL VIDEOTERM	DISK	400.00
SWPT0102	SERIES 40-AR VIDEOTERM	DISK	400.00
SWPT0103	SERIES 40-AP VIDEOTERM	DISK	400.00
SWPT0104	SERIES 40-INVENTORY VIDEOTERM	DISK	400.00
SWPT0105	SERIES 40-PEACHPAY VIDEOTERM	DISK	400.00
SWPT0112	SERIES 9-3-PAC (TEXT/SPELL/MAIL)	DISK	595.00
SWPTOP11	SERIES 9-TELECOMMUNICATIONS	DISK	375.00
PENGUIN			
SWPS0001	COMPLETE GRAPHICS SYSTEM	DISK	69.95
SWPS0002	SPECIAL EFFECTS	DISK	39.95
SWPS0003	GRAPHICS MAGICIAN	DISK	59.95
SWPS0004	ADDITIONAL FONTS & CHAR. SETS	DISK	19.95
SWPS0005	COMPLETE GRAPHICS SYST. II (APPLE TABLT)	DISK	119.95
SWPS0006	SPECIAL EFFECTS (APPLE TABLET VERSION)	DISK	69.95
PHOENIX			
SW590001	THE BIRTH OF THE PHOENIX	DISK	22.00
SW590002	ADVENTURE IN TIME	DISK	29.95
SW590003	ZOOM GRAFIX	DISK	39.95
SW590004	SHERWOOD FOREST	DISK	34.95
SW590005	THE QUEEN OF PHOBOS	DISK	34.95
PICCADILLY			
SW560001	FALCONS	DISK	29.95
SW560002	WARP DESTROYER	DISK	29.95
SW560003	SUICIDE	DISK	29.95
SW560004	STAR BLASTER	DISK	29.95
SW560005	RIBBIT	DISK	29.95
PROG DESIGN			
SWPD0001	THE NEW STEP-BY-STEP	DISK	79.95
SWPDO004	ASTRO QUOTES	DISK	23.95
QUALITY			
SW570801	BENEATH APPLE DOS	BOOK	19.95
SW570001	METEROIDS IN SPACE	DISK	19.95
SW570002	FASTGAMMON	DISK	24.95
SW570003	CROSS-REF	DISK	24.95
SW570004	FRACAS	DISK	24.95
SW570005	BENEATH APPLE MANOR	DISK	19.95

SW570006	BATTLESHIP COMMANDER	DISK	19.95
SW570007	ASTROAPPLE	DISK	19.95
SW570008	QS REVERSI	DISK	29.95
SW570009	BAG OF TRICKS	DISK	39.95
SW570055	ALI BABA & THE FORTY THIEVES	DISK	32.95
SW570101	GBS-DB APPL. DEV. PRGM. (REQ. SOFTCARD)	DISK	700.00
ROCKROY			
SWRR0001	CONGLOMERATES COLLIDE	DISK	39.95
SENSIBLE			
SW610001	SUPER DISK COPY III	DISK	30.00
SW610002	MULTI DISK CATALOG III	DISK	25.00
SW610003	DISK RECOVERY ("THE SCANNER")	DISK	30.00
SW610004	APPLESOFT-PLUS STRUCTURED BASIC	DISK	25.00
SW610005	APPLESOFT PROGRAM OPTIMIZERS	DISK	20.00
SW610006	DISK ORGANIZER II	DISK	30.00
SW610007	DOS PLUS	DISK	25.00
SW610008	QUICKLOADER	DISK	25.00
SW610009	THE APPLE SPELLER	DISK	75.00
SW610010	IMAGE PRINTER-LETTER QUALITY	DISK	40.00
SW610011	APPLE SPELLER FOR SUPERTEXT	DISK	75.00
SW610012	IMAGE PRINTER-EPSON	DISK	40.00
SW610013	IMAGE PRINTER-NEC DOT MATRIX	DISK	40.00
SW610014	THE BUG	DISK	50.00
SW610015	BUILD USING	DISK	30.00
SW610016	EDIT SOFT	DISK	30.00
SW610017	QUADRANT 6112	DISK	34.95
SW610018	THE SENSIBLE SPELLER	DISK	125.00
SW610019	THE SENSIBLE SPELLER (FOR SUPERTEXT)	DISK	125.00
SW610020	THE SENSIBLE SPELLER (FOR APPLE CP/M)	DISK	125.00
SW610021	B.E.S.T. (APPLESOFT PRGM OPTIMIZER)	DISK	40.00
SFTECH MCR			
SWSM0001	UCSD P-SYSTEM SOFTWARE SET	DISK	499.00
SWSM0002	BASIC COMPILER & RUNTIME PACKAGE	DISK	215.00
SWSM0003	XENOFIL	DISK	50.00
SWSM0004	SOFTTEACH	DISK	120.00
SFTWRE PUB			
SW780002	PFS: REPORT (NEW IMPROVED)	DISK	95.00
SW780003	PFS: (NEW IMPROVED)	DISK	125.00
SW780004	PFS: GRAPH	DISK	125.00
SIRIUS SFT			
SW700901	THE JOYPORT	ACCS	74.95
SW700012	GORGON	DISK	39.95
SW700013	SNEAKERS	DISK	29.95
SW700014	EPOCH	DISK	34.95
SW700015	PASCAL GRAPHICS EDITOR	DISK	99.95
SW700016	COPTS AND ROBBERS	DISK	34.95
SW700017	OUTPOST	DISK	29.95
SW700018	BEER RUN	DISK	29.95
SW700019	HADRON	DISK	34.95
SW700020	DARK FOREST	DISK	29.95
SW700021	BORG	DISK	29.95
SW700022	COMPUTER FOOSBALL	DISK	29.95
SW700023	TWERPS	DISK	29.95
SW700024	SNAKE BYTE	DISK	29.95
SW700025	AUDEX	DISK	29.95
SW700026	FLY WARS	DISK	29.95
SW700027	CYCLOD	DISK	29.95
SW700028	KABUL SPY	DISK	34.95
SW700029	JELLYFISH	DISK	29.95
SW700030	MINOTAUR	DISK	34.95
SW700031	BANDITS	DISK	34.95
SW700032	LEMMINGS	DISK	29.95
SW700033	ESCAPE FROM RUNGISTAN	DISK	29.95
SW700034	FREE FALL	DISK	29.95
SW700035	WAY OUT	DISK	39.95
SW700036	THE BLADE OF BLACKPOOL	DISK	39.95
SW700037	TYPE ATTACK	DISK	39.95
SIR-TECH			
SW740001	GALACTIC ATTACK	DISK	29.95
SW740002	WIZARDRY	DISK	49.95
SW740003	KNIGHT OF DIAMONDS (SCENARIO #2)	DISK	34.95
SOF/SYS			
SWSF0001	EXECUTIVE SECRETARY (RET. 250.00)	DISK	229.00
SWSF0002	EXECUTIVE SPELLER	DISK	75.00
SOFTAPE			
SW760001	APPLE '21'	DISK	24.95
SW760002	CRAPS	DISK	24.95
SW760003	GOMOKU	DISK	19.95
SW760004	MICROGAMMON II	DISK	19.95
SW760005	ROULETTE	DISK	24.95
SW760006	BAKER'S TRILOGY	DISK	29.95
SW760007	APPLE LIS'NER	DISK	29.95
SW760008	APPLE TALKER	DISK	29.95
SW760009	DISK UTILITIES	DISK	29.95
SW760010	FORTE	DISK	29.95
SW760011	SCREEN MACHINE	DISK	29.95
SW760012	PENSOFT	DISK	29.95
SW760013	CROSSWORDS	DISK	29.95
SW760014	JOURNEY	DISK	29.95
SW760015	BEST OF BISHOP	DISK	39.95
SW760016	FORTH II	DISK	69.95
SW760017	BRIGHT PEN WITH PENSOFT	DISK	49.95
SW760018	STAR MINES	DISK	29.95
SW760019	DRAW POKER	DISK	29.95
SW760020	PHOTAR	DISK	29.95
SW760021	CASINO GAMING ASSORTMENT	DISK	69.95
SORCIM			
SWSR0001	SUPERCALC (REQ. SOFTCARD)	DISK	

# SOFTWARE FOR APPLE II, cont'd.

SOUTHEAST			
SWS00001	DATA CAPTURE 4.0	DISK	64.95
SWS00002	DATA CAPTURE 4.0/VIDEX	DISK	89.95
SWS00003	DATA CAPTURE 4.0/SMARTERM	DISK	89.95
SWS00004	DATA CAPTURE 4.0/SUPERTERM	DISK	89.95
SWS00102	DATA CAPTURE 40/80 VIDEX	DISK	90.00
SWS00103	DATA CAPTURE 40/80 SMATERM	DISK	90.00
SPINNAKER			
SWSK004	FACE MAKER	DISK	34.95
SWSK6001	SNOOPER TROOPS #1	DISK	44.95
SWSK6002	SNOOPER TROOPS #2	DISK	44.95
SWSK6003	STORY MACHINE	DISK	34.95
STC			
SWST0001	PROFESSIONAL TIME & BILLING (RET 395.00)	DISK	329.00
SWST0002	LANGUAGE READING DEV. PROG. (RET 175.00)	DISK	165.00
SWST0003	APARTMENT MANAGER (RET 325.00)	DISK	279.00
STONEWARE			
SW840810	WORDSTAR MANUAL	BOOK	14.95
SW840301	BLOODY MURDER	DISK	19.95
SW840002	TRANQUILITY BASE	DISK	24.95
SW840003	MICRO LEAGUE BASEBALL	DISK	24.95
SW840004	MICRO MEMO	DISK	39.95
SW840005	ELECTRONIC PRICE SHEET	DISK	100.00
SW840007	D.B. MASTER (RET. 229.00)	DISK	219.00
SW840008	D.B. MASTER UTILITY PAK #1	DISK	99.00
SW840009	D.B. MASTER/HARD DISK (RET. 499.00)	DISK	399.00
SW840010	COMPUCUBE	DISK	29.95
SW840011	D.B. MASTER UTILITY PAK #2	DISK	99.00
SW840012	D.B. MASTER STAT PAC	DISK	99.00
SW840013	GRAPHICS PROCESSING SYSTEM (STANDARD)	DISK	59.95
SW840014	GRAPHICS PROCESSING SYSTEM (PROF.)	DISK	99.95
STRATG SIM			
SW820001	COMPUTER BISMARCK	DISK	59.95
SW820002	COMPUTER AMBUSH (2ND EDITION)	DISK	59.95
SW820004	COMPUTER AIR COMBAT	DISK	59.95
SW820005	TORPEDO FIRE	DISK	59.95
SW820006	OPERATION APOCALYPSE	DISK	59.95
SW820007	COMPUTER CONFLICT	DISK	39.95
SW820008	THE WARP FACTOR	DISK	39.95
SW820009	THE CARTELS & CUTTHROATS	DISK	39.95
SW820010	COMPUTER QUARTERBACK (2ND EDITION)	DISK	39.95
SW820011	THE SHATTERED ALLIANCE	DISK	59.95
SW820012	COMPUTER BASEBALL	DISK	39.95
SW820013	PRESIDENT ELECT	DISK	39.95
SW820016	SOUTHERN COMMAND	DISK	59.95
SW820017	NAPOLEON'S CAMPAIGN 1813 & 1815	DISK	59.95
SW820018	THE ROAD TO GETTYSBURG	DISK	59.95
SW820019	PURSUIT OF THE GRAF SPEE	DISK	59.95
SW820020	CYTRON MASTERS	DISK	39.95
SW820021	GUADALCANAL	DISK	59.95
SW820022	S.E.U.I.S.	DISK	39.95
SW820023	GALACTIC GLADIATORS	DISK	39.95
SW820614	THE BATTLE OF SHILOH	DISK	39.95
SW820615	TIGERS IN THE SNOW	DISK	39.95
SW820624	THE COSMIC BALANCE	DISK	39.95
SUBLOGIC			
SW830001	FLIGHT SIMULATOR (A2-FS1)	DISK	33.50
SW830002	SATURN NAVIGATOR (A2-3D/A) REQ GRAPHIC PK	DISK	24.95
SW830005	GRAPHICS EDITOR (A2-GE1)	DISK	34.95
SW830006	WHOLE BRAIN SPELLING (A2-ED1)	DISK	34.95
SW830007	ESCAPE (A2-SG1)	DISK	29.95
SW830008	PINBALL (A2-PB1)	DISK	29.95
SW830009	GRAPHICS COMBO PKG. (3D1, 3D2, GE1)	DISK	119.85
SW830010	SATURN NAVIGATOR (GRAPHICS PKG. NOT REQ)	DISK	34.95
SYNERGISTC			
SW860302	DUNGEON CAMPAIGN	CASS	15.00
SW860303	WILDERNESS CAMPAIGN	CASS	17.50
SW860001	ODYSSEY	DISK	30.00
SW860002	DUNGEON CAMPAIGN	DISK	17.50
SW860003	WILDERNESS CAMPAIGN	DISK	20.00
SW860004	DUNGEON/WILDERNESS COMBO	DISK	32.50
SW860005	TANK ATTACK/DEATH RUN	DISK	20.00
SW860006	DOOM CAVERN/SORCERER'S CHALLENGE	DISK	20.00
SW860007	ESCAPE FROM ARCTURUS	DISK	35.00
SW860008	PLANETARY GUIDE	DISK	30.00
SW860009	ATLANTIS	DISK	40.00
SW860010	SOFT SEVENTY	DISK	50.00
SW860019	HIGHER FONTS	DISK	15.00
SW860020	THE LINGUIST	DISK	40.00
SW860021	THE DIRECTORY MANAGER	DISK	25.00
SW860022	THE STAR GAZER'S GUIDE	DISK	30.00
SW860023	HIGHER TEXT II	DISK	40.00
SW860024	HIGHER GRAPHICS II	DISK	35.00
SW860025	MAILING LIST DATABASE	DISK	50.00
SW860026	PROGRAM LINE EDITOR	DISK	40.00
SW860027	MODIFIABLE DATABASE	DISK	79.50
SW860028	THE DATA REPORTER	DISK	220.00
SW860029	INTEGER BASIC COMPILER	DISK	150.00
SW860030	NIGHTMARE GALLERY	DISK	34.95
SW860031	U-BOAT COMMAND	DISK	34.95
SW860033	GLOBAL PROGRAM LINE EDITOR	DISK	64.95
SW860034	DATA REPORTER: HARD DISK	DISK	220.00
SW860091	PROGRAM LINE EDITOR ON ROM	ROM	60.00

SYSTEMS +			
SWSP0001	ACCTG. PLUS-GENERAL LEDGER (RET. 425.00)	DISK	339.00
SWSP0010	ACCTG. PLUS-GL,AP & AR (RET 995.00)	DISK	695.00
SWSP0020	ACCTG. PLUS-GL,AP,AR & INVTRY (RET 1395)	DISK	949.00
TG PRDCTS			
SW880901	GAME PADDLES	ACCS	39.95
SW880902	JOYSTICK	ACCS	59.95
SW880903	SELECT-A-PORT (5 WAY)	ACCS	59.95
TURNKEY			
SW870001	CEILING ZERO	DISK	29.95
SW870002	THE GAUNTLET	DISK	34.95
SW870003	AMOEBA MAN	DISK	34.95
VERSA COMP			
SW980901	VERSAWRITER GRAPHICS TABLET	ACCS	229.00
SW980902	EZ PORT	ACCS	24.95
SW980001	VERSAWRITER EXPANSION PAC-I	DISK	39.95
SW980002	VERSAWRITER EXPANSION PAC-II	DISK	39.95
SW980003	MEET THE PRESIDENTS	DISK	39.95
SW980004	AXE (APPLE EXTENDED EDITOR)	DISK	69.95
SW980005	HERE'S HOLLYWOOD	DISK	24.95
SW980006	BATTLESIGHT	DISK	39.95
VIDEX INC			
SW970901	VIDEOTERM (60 HZ) RETAIL 345.00	ACCS	295.00
SW970903	KEYBOARD ENHANCER (REV 0-6)	ACCS	129.00
SW970904	SWITCHPLATE	ACCS	19.00
SW970905	SOFT VIDEO SWITCH (60 HZ)	ACCS	35.00
SW970906	MICROMODEM FIRMWARE	ACCS	29.00
SW970908	CHARACTER SET-INVERSE	ACCS	29.00
SW970909	CHARACTER SET-ASCII UC	ACCS	29.00
SW970910	CHARACTER SET-APL	ACCS	29.00
SW970911	CHARACTER SET-FRENCH	ACCS	29.00
SW970912	CHARACTER SET-SPANISH	ACCS	29.00
SW970913	CHARACTER SET-GERMAN	ACCS	29.00
SW970914	CHARACTER SET-KATAKANA	ACCS	29.00
SW970915	CHARACTER SET-SYMBOL	ACCS	29.00
SW970916	LOWERCASE CHIP	ACCS	29.00
SW970918	VIDEOTERM (50 HZ) RETAIL 345.00	ACCS	295.00
SW970920	CHARACTER SET-SUPER	ACCS	29.00
SW970921	ENHANCER II (REV 7 & UP)	ACCS	149.00
SW970922	CHARACTER SET-NORTH EUROPEAN	ACCS	29.00
SW970923	CHARACTER SET-NORSK	ACCS	29.00
SW970924	CHARACTER SET-RUSSIAN	ACCS	29.00
SW970925	SOFT VIDEO SWITCH (50 HZ)	ACCS	35.00
SW970926	FUNCTION STRIP (REQ. ENHANCER II)	ACCS	79.00
SW970927	HI-LOW INTENSITY KIT	ACCS	49.00
SW970016	FONT EDITOR	DISK	25.00
SW970017	VIDEOTERM UTILITIES DISK	DISK	37.00
SW970018	VISICALC 80 COL. PREBOOT	DISK	49.00
SW970019	APPLEWRITER II 80 COL. PREBOOT	DISK	19.00
VISICORP			
SW580301	CHECKER KING	CASS	19.95
SW580303	MONTY PLAYS MONOPOLY	CASS	29.95
SW580305	MICROCHESS	CASS	19.95
SW580306	BRIDGE PARTNER	CASS	19.95
SW580010	DESKTOP PLAN II (RET. 250.00)	DISK	225.00
SW580013	VISIPILOT (RETAIL 200.00)	DISK	169.00
SW580014	VISITREND/PLOT (RETAIL 300.00)	DISK	259.00
SW580015	VISIDEX (RETAIL 250.00)	DISK	219.00
SW580016	VISITERM (RETAIL 100.00)	DISK	89.00
SW580017	VISICALC 3.3 (RETAIL 250.00)	DISK	219.00
SW580018	VISIFILE (RETAIL 250.00)	DISK	219.00
SW580020	VISIPAK (RETAIL 700.00)	DISK	595.00
SW580022	PRINTER DRIVER UTILITY (VISITREND/PLOT)	DISK	10.00
SW580023	VISISCHEDULE (RETAIL 300.00)	DISK	269.00
SW580024	BUSINESS FORECAST. MODEL (REQ. VISICALC)	DISK	100.00
SW580026	VISILINK	DISK	250.00
VOYAGER			
SW990001	STARSHIP COMMANDER	DISK	39.95
ZEITGEIST			
SWZE0001	INVADER ROUNDUP	DISK	49.50
SWZE0002	SPACE SCANNER	DISK	49.50
SWZE0003	INVADER ATTACK	DISK	49.50
SWZE0004	SPACE MOUSE	DISK	49.50

# SOFTWARE FOR ATARI

ACORN			
SW023027	LOST COLONY	DISK	29.95
ARTSCI			
SW103304	SYPHER BOWL	16K CASS	49.95
SW103301	PAKER SOLITAIRE	8K CASS	14.95
SW103302	GOMOKU	8K CASS	19.95
SW103303	REVERSI	8K CASS	19.95
SW103001	POKER SOLITAIRE	DISK	24.95
SW103002	GOMOKU	DISK	29.95
SW103003	REVERSI	DISK	29.95
AUTO SIMS			
SW141711	RICOCHET	16K CASS	19.95
SW141703	STAR WARRIOR	32K CASS	39.95
SW141704	RESCUE AT RIGEL	32K CASS	29.95
SW141705	DATESTONES OF RYN	32K CASS	19.95
SW141707	CRUSH, CRUMBLE & CHOMP	32K CASS	29.95
SW141708	INVASION ORION	32K CASS	24.95
SW141723	CURSE OF RA	32K CASS	19.95
SW143301	TEMPLE OF APSHAI	32K CASS	39.95



# SOFTWARE FOR ATARI, cont'd.

AUTO SIMS		
SW143001	TEMPLE OF APSHAI	32K DISK 39.95
SW143003	STAR WARRIOR	32K DISK 39.95
SW143004	RESCUE AT RIGEL	32K DISK 29.95
SW143005	DATESTONES OF RYN	32K DISK 19.95
SW143007	CRUSH, CRUMBLE & CHOMP	32K DISK 29.95
SW143008	INVASION ORION	32K DISK 24.95
SW143011	RICOCHET	32K DISK 19.95
SW143025	KING ARTHUR'S HEIR	32K DISK 29.95
SW143026	ESCAPE FROM VULCAN'S ISLE	32K DISK 29.95
SW143028	THE NIGHTMARE	32K DISK 29.95
SW143027	CRYPT OF THE UNDEAD	40K DISK 29.95
SW141709	THE UPPER REACHES OF APSHAI	CASS 19.95
SW143010	DRAGON'S EYE	DISK 29.95
SW143023	CURSE OF RA	DISK 19.95
AVLON HILL		
SW180701	B-1 NUCLEAR BOMBER	16K CASS 16.00
SW180703	NORTH ATLANTIC CONVOY RAIDER	16K CASS 16.00
SW180704	NUKEWAR	16K CASS 16.00
SW180706	PLANET MINERS	24K CASS 16.00
SW180711	TANKTICS	24K CASS 24.00
SW180702	MIDWAY CAMPAIGN	32K CASS 16.00
SW180705	CONFLICT 2500	32K CASS 16.00
SW180713	GUNS OF FORT DEFIANCE	32K CASS 20.00
SW183011	TANKTICS	32K DISK 29.00
SW180708	LORDS OF KARMA	40K CASS 20.00
SW180709	EMPIRE OF THE OVERMIND	40K CASS 30.00
SW183009	EMPIRE OF OVERMIND	40K DISK 35.00
SW183012	COMPUTER STOCKS & BONDS	40K DISK 21.00
SW180712	COMPUTER STOCKS & BONDS	CASS 20.00
SW180600	GALAXY	DISK 25.00
SW183014	DNIEPR RIVER LINE	DISK 30.00
SW183015	VOYAGER	DISK 25.00
SW183016	CONTROLLER	DISK 30.00
SW180716	SHOOTOUT AT THE O.K. GALAXY	16K CASS 20.00
SW180717	BOMBER ATTACK	16K CASS 16.00
SW181718	TANK ARKADE	16K CASS 15.00
SW183319	KNOCKOUT	16K CASS 20.00
AVNTR INTL		
SW063343	MOUNTAIN SHOOT	16K CASS 14.95
SW063344	SUNDAY GOLF	16K CASS 14.95
SW063382	3D TIC TAC TOE	16K CASS 14.95
SW063383	TREASURE QUEST	16K CASS 14.95
SW063384	REAR GUARD	16K CASS 19.95
SW063301	ADVENTURE #1-ADVENTURELAND	24K CASS 19.95
SW063302	ADVENTURE #2-PIRATE'S ADVENTURE	24K CASS 19.95
SW063303	ADVENTURE #3-MISSION IMPOSSIBLE	24K CASS 19.95
SW063304	ADVENTURE #4-VOODOO CASTLE	24K CASS 19.95
SW063305	ADVENTURE #5-THE COUNT	24K CASS 19.95
SW063306	ADVENTURE #6-STRANGE ODYSSEY	24K CASS 19.95
SW063307	ADVENTURE #7-MYSTERY FUN HOUSE	24K CASS 19.95
SW063308	ADVENTURE #8-PYRAMID OF DOOM	24K CASS 19.95
SW063309	ADVENTURE #9-GHOST TOWN	24K CASS 19.95
SW063310	ADVENTURE #10-SAVAGE ISLAND 1	24K CASS 19.95
SW063311	ADVENTURE #11-SAVAGE ISLAND 11	24K CASS 19.95
SW063312	ADVENTURE #12-GOLDEN VOYAGE	24K CASS 19.95
SW063361	LUNAR LANDER	24K CASS 14.95
SW063084	REAR GUARD	24K DISK 24.95
SW063345	GALACTIC EMPIRE	32K CASS 19.95
SW063346	GALACTIC TRADER	32K CASS 19.95
SW063360	STARFLIGHT (STAR TREK 3.5)	32K CASS 19.95
SW063001	ADVENTURE #1,2&3	32K DISK 39.95
SW063004	ADVENTURE #4,5&6	32K DISK 39.95
SW063007	ADVENTURE #7,8&9	32K DISK 39.95
SW063011	ADVENTURE #10,11&12	32K DISK 39.95
SW063341	ANGLE WORMS/CROLON DIVERSION	8K CASS 14.95
SW063342	DEFLECTION	8K CASS 14.95
SW063385	PREPPIE	CASS 24.95
SW063071	COMMBAT	DISK 24.95
SW063085	PREPPIE	DISK 29.95
SW063086	WAR	DISK 24.95
SW063087	DISKEY	DISK 49.95
BRODERBUND		
SW263338	STELLAR SHUTTLE	16K CASS 29.95
SW263038	STELLAR SHUTTLE	16K DISK 29.95
SW263017	APPLE PANIC	48K DISK 29.95
SW263317	APPLE PANIC	16K CASS 29.95
SW263023	DAVID'S MIDNIGHT MAGIC	DISK 34.95
SW263025	TRACK ATTACK	DISK 29.95
SW263026	STAR BLAZER	DISK 31.95
SW263036	HI-RES ADV #1-DEADLY SECRETS	DISK 34.95
SW263034	CHOPLIFTER	48K DISK 34.95
BUDGECO		
SW283001	RASTER BLASTER	32K DISK 29.95
CAVALIER		
SW293303	BUG ATTACK	16K CASS 29.95
SW293003	BUG ATTACK	16K DISK 29.95
COMP MAGIC		
SW253301	KAYOS	8K CASS 34.95
SW253001	KAYOS	8K DISK 34.95
DATASOFT		
SW323004	DISK DETECTIVE	16K DISK 29.95
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SW323025	SANDS OF EGYPT	16K DISK 39.95
SW323027	O'RILEY'S MINE	16K DISK 34.95
SW323028	ROSEN'S BRIGADE	16K DISK 34.95
SW323029	FATHOMS FORTY	16K DISK 34.95
SW323002	ATARI CHARACTER GENERATOR	24K DISK 19.95
SW323016	TUMBLE BUGS (DUNG BEETLES)	24K DISK 29.95
SW323003	TEXT WIZARD	32K DISK 99.95
SW323009	COLOR PRINT	40K DISK 39.95
SW323017	GRAPHICS MASTER	40K DISK 39.95
SW323005	DATASM 65 2.0	48K DISK 89.97
SW323006	MICROPAINTER	48K DISK 34.95
SW323013	LISP INTERPRETER	48K DISK 149.95
SW323014	BISHOPS SQUARE	48K DISK 29.95
SW323025	SPELL WIZARD	48K DISK 79.95
SW323901	LE STICK	ACC3 39.95
SW323906	COLOR PRINT REFILL	ACC3 15.95
SW323322	SHOOTING ARCADE	CASS 29.95
SW323323	PACIFIC COAST HIGHWAY	CASS 29.95
SW323324	CLOWNS & BALLOONS	CASS 29.95
SW323018	GRAPHIC GENERATOR	DISK 24.95
SW323019	THE BASIC COMPILER	DISK 99.95
SW323021	SOFTERM	DISK 49.95
SW323022	SHOOTING ARCADE	DISK 29.95
SW323023	PACIFIC COAST HIGHWAY	DISK 29.95
SW323024	CLOWNS & BALLOONS	DISK 29.95
DON'T ASK		
SWDA3001	WORDRACE	32K DISK 24.95
SWDA3003	S.A.M. (SOFTWARE AUTOMATIC MOUTH)	8K DISK 59.95
SWDA3002	CLAIM TO FAME/SPORTS DERBY	DISK 19.95
EDU-WARE		
SW383301	COMPU-READ	32K CASS 19.95
SW383310	COMPU-MATH/FRACTIONS	32K CASS 29.95
SW383311	COMPU-MATH/DECIMALS	32K CASS 29.95
SW383001	COMPU-READ	48K DISK 29.95
SW383010	COMPU-MATH/FRACTIONS	48K DISK 39.95
SW383011	COMPU-MATH/DECIMALS	48K DISK 39.95
GEBELLI		
SW403303	MATCH RACERS	16K CASS 29.95
SW403003	MATCH RACERS	16K DISK 29.95
SW403004	ANDROMEDA (NEW IMPROVED)	24K DISK 34.95
SW403006	DOCTOR GOODCODE'S CAVERN	48K DISK 29.95
SW403401	FIREBIRD	8K CART 49.95
SW403414	EMBARGO	8K CART 49.95
SW403005	PATHFINDER	DISK 34.95
INFOCOM		
SW633001	DEADLINE	32K DISK 49.95
SW633002	ZORK 1	32K DISK 39.95
SW633003	ZORK 11	32K DISK 39.95
IN-HOME		
SWIH3304	ALIEN NUMBERS	16K CASS 29.95
SWIH3305	MATH PAK	16K CASS 34.95
SWIH3004	ALIEN NUMBERS	16K DISK 34.95
SWIH3005	MATH PAK	16K DISK 34.95
SWIH3301	CRYPTS OF TERROR	16K CASS 29.95
SWIH3302	ALIEN SWARM	16K CASS 29.95
SWIH3303	INTRUDER	16K CASS 29.95
SWIH3001	CRYPTS OF TERROR	16K DISK 34.95
SWIH3002	ALIEN SWARM	16K DISK 34.95
SWIH3003	INTRUDER	16K DISK 34.95
INNOV DSGN		
SW463401	POOL 400	16K CART 39.95
SW463405	SPEEDWAY BLAST	16K CART 39.95
SW463001	POOL 1.5	48K DISK 34.95
JV SOFTWARE		
SWJV3301	ACTION QUEST	16K CASS 29.95
SWJV3302	GHOST ENCOUNTERS	16K CASS 29.95
SWJV3001	ACTION QUEST	16K DISK 29.95
SWJV3002	GHOST ENCOUNTERS	16K DISK 29.95
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SW653001	K-DOS	32K DISK 89.95
SW653101	K-RAZY SHOOTOUT	8K CART 49.95
SW653402	K-RAZY KRITTERS	8K CART 49.95
SW653403	D-STAR PATROL	8K CART 49.95
SW653404	K-RAZY ANTIKS	8K CART 49.95
LGHTNG		
SW643002	MASTER TYPE	32K DISK 39.95
LJK		
SW493002	MAIL MERGE/UTILITY	16K DISK 29.95
SW493101	LETTER PERFECT WITH MAIL MERGE	24K CART 249.95
SW493001	LETTER PERFECT	24K DISK 149.95
SW493104	EDIT 6502	32K CART 199.95
SW493003	DATA PERFECT	32K DISK 99.95
MEGASOFT		
SWMI3301	MEGALEGS	16K CASS 34.95
ON-LINE		
SW543004	HI-RES AVE #4 ULYSESS & GOLDEN FLEECE	40K DISK 34.95
SW543413	CROSSFIRE	8K CART 44.95
SW543313	CROSSFIRE	16K CASS 29.95
SW543323	JAWBREAKER	16K CASS 29.95
SW543023	JAWBREAKER	16K DISK 29.95
SW543013	CROSSFIRE	32K DISK 29.95
SW543014	MOUSEKATTACK	32K DISK 34.95
SW543027	THE NEXT STEP	32K DISK 39.95