

Heathkit"

The right choice now, and in the future - the 16/8-bit kit or

Experience sophisticated, incredibly fast 16-bit software – with the ability to run most existing Heath/Zenith 8-bit software programs! (Software programs sold separately.)

Has 16-bit 8088 and 8-bit 8085 microprocessors, four IEEE-696 (S-100) expansion slots, built-in 5.25" disk drive and more – all in a single, compact housing!



Built-in 5.25" floppy disk drive stores up to 320K bytes of data on a single disk; optional, external 8" disk drives can be added.

> Second built-in drive slot accommodates 11-megabyte Winchester disk drive or second 320 KB 5.25" drive.

An 18-key numeric pad (with cursor control keys) lets you enter numeric data, perform calculations in a fast and easy manner.

Our most powerful desktop computer has what you need to compute today – and tomorrow, too!

The H/Z-100 includes two sophisticated micro-processors, 768 KB Random Access Memory (RAM) capacity, an industry-standard S-100 expansion bus, a 5.25-inch floppy disk drive with expandability, easy-touch keyboard and low-maintenance design – all in a durable earthtone-color cabinet!

Offers outstanding performance for everyone: Those with little or no computer experience will appreciate the H/Z-100's ease of operation and the time-saving, money-saving advantages it provides. Those with programming experience and the need to use more advanced languages will enjoy this computer's power and versatility.

Dual microprocessors to run more advanced software: To run today's higher-speed, higher-performance 16-bit software programs, you need an H/Z-100. Its advanced 8088 microprocessor makes a significant difference by processing information in great detail with astonishing speed.

Most existing programs won't become obsolete either: The H/Z-100 Computer also handles 8-bit software programs with an 8085 microprocessor – including many current Heath/Zenith programs.

Many software programs now available: Choose both 16-bit and 8-bit Heath/Zenith software for the H/Z-100. See 16-bit programs, including the Z-DOS Operating System, Z-BASIC Color Language, word processing and Microsoft's Multiplan Spreadsheet, on pages 6-7. Eight-bit software is on pages 20-31.

Most models have 192KB of RAM to handle larger software programs: You get real power to answer bigger, more comprehensive questions. RAM can be expanded to over ¾ of a megabyte (768K bytes) – compared to a 64K RAM standard for many desktop computers.

Supports video graphics for vivid presentations:

You get the high-impact graphics capability that many business presentations demand. You can create charts, graphs and symbols for reports and other documents on the 640 x 225 pixel screen.

Designed to grow as your computing needs grow: There are four industry-standard IEEE-696 (S-100) card slots available for internal expansion, allowing you to add more memory and peripherals as your needs change. This allows your investment to grow, and decreases the chance of obsolescence.

Total communications flexibility: Three input/out-put (I/O) ports let you access a world of information. Two RS-232C serial ports and one parallel port provide almost limitless capabilities. Use printers; or with a modem and telephone, communicate with other computers, word processors, data banks, printers and other communications devices.

High-capacity disk drives: A built-in 5.25-inch floppy disk drive provides 320K bytes of on-line data storage capacity. For more on-line storage capacity, add a second 5.25" drive (page 4).

Up to 2.5 megabytes of std. floppy disk storage now available: The Z-207 Floppy Disk System (page 4), comes with one or two 1.25 megabyte drives.

Optional Winchester disk drive provides built-in big job capacity: Replacing a 5.25" drive, the Winchester drive provides multi-megabyte data storage capacity needed for big jobs that used to need an expensive mini-computer. See page 4.

Heathkit versions are easy to build! Step-by-step manuals show you how. Many components are preassembled for faster kitbuilding. 120/240 VAC.

assembled H/Z-100, now with 192KB RAM in most models!

Screen displays 24 lines of 80 characters, plus 25th line of user information – or 225 graphic lines of 640 dots.

The H/Z-100's decorator tan and brown earthtone colors, state-of-the-art cabinet design blend well into most any decor scheme.

Sculptured typewriter-style keyboard features 95 keys, enlarged "return" and "enter" keys, 13 user-programmable special function keys for added convenience.



Built-in 5.25" floppy disk drive stores up to 320 KB online; add internal 11 MB Winchester disk drive, another 320 KB 5.25" drive or an external 1.25 or 2.5 MB 8" floppy disk system.

> The 18-key numeric pad (including cursor control keys) lets you enter numeric data, perform calculations faster and easier.

Choose the low-profile or all-in-one H/Z-100 Computer, in kit or assembled form, that matches your computing needs.

Low-Profile (above, left): Add ZVM-122, 123 or 135 Displays (p. 16; ZVM-135 needs Z-219-1 Color RAM on some models). $7\frac{1}{8}$ H x 19 W x $19\frac{1}{2}$ D.

ZF-110-22, Assem. w/color, 128KB RAM and two 5.25" disk drives, 62 lbs. **3499.00**

NEW! ZW-110-32, Asm. w/color, 192KB RAM, 5.25" and Winchester drives, 63 lbs. **5499.00**

NEW! ZF-100-21, Asm. w/mono graphics, 128KB RAM, one 5.25" drive, 49 lbs... 2899.00

NEW! Kit HS-100-31, w/mono graphics, 192KB RAM and one 5.25" drive, 98 lbs. . . . 2199.00

All-In-One (above, right): 12" diag. mono video display, mono graphics – in one housing! Add Z-219-1, ZVM-135 (p. 16) for color. 13½" H x 19½" W x 19½" D.

NEW! Kit HSW-120-31, white CRT and 192KB RAM, 133 lbs. . . . 2349.00

ZF-120-22, Asm. w/green CRT, 128KB RAM, two 5.25" drives, 68 lbs. Mtr. Frt. 3599.00



Peripherals add more capability to H/Z-100!

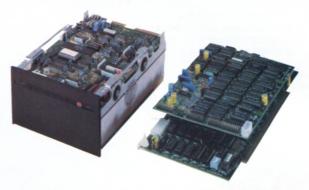


NEW! External 8-Inch Floppy Disk System stores up to 1.25 megabytes more data on a transportable disk

Plug-in compatibility with H/Z-100: Now you can store up to 1.25 megabytes of important data, generated by your H/Z-100 Series Computer, on a single 8-inch floppy disk. Uses soft-sectored disks, formatted in standard IBM 3740 style.

No wait to see data: Has 90 mS average access and 410 mS maximum access – with 3 mS track-to-track moves, 20 mS head settle time and 83 mS average latency. Styled in pleasant H/Z-100 earthtone colors. Kit includes easy-to-follow Heathkit building manual. 120 VAC, 60 Hz, 150 Watts. Compact – 73/4" H x 133/4" W x 201/2" D.

Heathkit	Kit HS-207-41, Disk System with one drive,
	Shpg. wt. 57 lbs 999.00
Heathkit	Kit HS-207-42, Disk System with two drives,
	Shpg. wt. 69 lbs
Zenerw data systems	Z-207-41, Assembled Disk System with one
	drive, Wt. 53 lbs
Zenerw data systems	Z-207-42 , Assembled Disk System with two
	drives. Wt. 60 lbs



NEW! Internal-mount 11 Megabyte Winchester Disk Drive gives huge storage capacity for large tasks

Installs in one of the H/Z-100's 5.25" disk drive slots: The ZS-217 Winchester Disk Drive provides the 11 megabyte data storage capacity necessary for large accounting, data base, inventory, and technical jobs that used to need an expensive mainframe or minicomputer system.

Features super-fast 85 mS average access time: An extremely high five megabytes of data transfer each second at 3600 rpm. Virtually perfect reading of data – this drive averages only one error per trillion bits read. Saves energy – draws only 23 Watts from computer power supply.

Includes all hardware needed to install in your H/Z-100 Computer: A complete Winchester Upgrade Kit is included with the Winchester Disk Drive. With the step-by-step instructions included, you can install the drive in just a few hours!

A full line of H/Z-100-compatible accessories

NEW! 256KB RAM Board for your H/Z-100! Plugs into an IEEE-696 (S-100) expansion slot. Add two boards to expand to an astounding 704KB of RAM! Realize the benefits provided by the H/Z-100's superior memory capacity. Requires 192KB RAM (If you need to expand to 192KB, see Z-205-1 above).

Z-205, Shpg. wt. 2 lbs. 799.00

Color Video RAM Set for HS/ZF-100, HS/ZF-120: Two sets needed for color graphics capability.

Z-207-6, Low-Profile 8-Inch Floppy Disk Drive to expand HS-207-41 or Z-207-41 Disk Systems to two drives, Shpg. wt. 8 lbs 699.00
Z-207-3 , Second 320KB 5.25-Inch Disk Drive for H-100
Computer Kits, Shpg. wt. 5 lbs 395.00
SAVE \$95! Buy with H-100 Kit ONLY 300.00
HDC-100, Dust Cover for Low-Profile H/Z-100 Series
Computers, Shpg. wt. 1 lb
HDC-120, Dust Cover for All-In-One H/Z-100 Series
Computers, Shpg. wt. 1 lb
HDC-207, Dust Cover for H/Z-207 External Eight-Inch
Floppy Disk System, Shpg. wt. 1 lb 16.00
TM-100, Technical Manuals for H/Z-100 Computer (included with kits), Shpg. wt 14 lbs 55.00

Problem-solving H/Z-100 software packages



Advanced 16-bit Z-DOS[™] and 8-bit standard CP/M[®] Operating Systems

Z-DOS – Microsoft™ MS-DOS-compatible: Run fast 16-bit programs like Multiplan, Z-BASIC. Has device-independent I/O and much more.

OS-63-4, Shpg. wt. 5 lbs. 150.00

CP/M – no planned software obsolescence: Your key to the largest base of software programs available now. Has assembler, editor, debugger.

OS-53-2, Shpg. wt. 5 lbs. 150.00

16-bit color, 8-bit BASIC Interpreters

Z-BASIC: This 16-bit color interpreter is an extended version of Microsoft BASIC below, produces beautiful color displays on capable systems. Requires Z-DOS above.

MS-463-1, Shpg. wt. 5 lbs. 175.00

Microsoft BASIC: An excellent 8-bit interpreter. Has IF-THEN-ELSE control structure, extended commands/statements, math and logical capabilities, editing more. Needs CP/M above.

● MS-253-1, Shpg. wt. 3 lbs. 175.00

SAVE \$350 on Software Starter Package!

Save twice on the software needed to start: You get a big \$350 off the separate prices of the 16-bit Z-DOS and 8-bit CP/M Operating Systems, the color Z-BASIC and Microsoft BASIC Languages.

You also get \$200 in valuable coupons! Each coupon is worth \$100 off any Heath/Zenith software product costing \$150 or more!

HSS-100-1, Software Starter Package,
 20 lbs. \$650.00 separately, ONLY 300.00

PeachText® 5000 Software Starter Package

The applications programs you need to get down to business with your H/Z-100: PeachText 5000 has eight value-packed features, at one low price:

- **1. PeachText Word Processor:** Easy to learn combines ease of use, versatility and power. Includes capabilities of Magic Wand (p. 25), including file merging and mail list management.
- **2. Spelling Proofer:** Checks spelling of files prepared with PeachText, highlighting misspelled words to help ensure a letter-perfect document!
- **3. PeachCalc:** A powerful electronic spreadsheet use as a financial modeling and planning tool. Has capabilities similar to SuperCalc (p. 6).
- **4. List Manager** mailing list names and addresses, SuperSort addition to PeachText.
- **5.** An on-line Random House Thesaurus: Can't think of a similar phrase? Consult this dictionary of synonyms while composing a PeachText document.
- **6. One box of ten floppy disks** a \$50.00 value, provided in this package at no extra charge!
- **7. Coupon for four free utility programs!** Worth \$525 separately. Send to Peachtree[®] for a program to pull Peachtree Series 5 Business Accounting files, for use with PeachText and PeachCalc. You'll also get programs to convert WordStar™ and EasyWriter files to PeachText format, and VisiCalc[®] to PeachCalc. Package supported by Peachtree Software, Inc. of Atlanta, GA. Needs H/Z-100 with Z-DOS (left).

For verifiable H-100 kit owners ONLY 275.00

SAVE 40% – buy Z-DOS, PeachText 5000 with H-100 Computer!

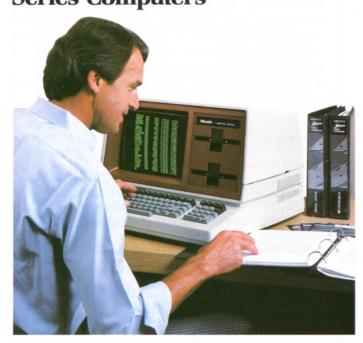
Best value: PeachText, Spelling Proofer, PeachCalc, List Manager, Thesaurus, 10 free floppy disks, information transfer and conversion utilities – plus ZDOS!

HSS-100-2, Z-DOS and PeachText 5000 Software Starter Package, Available only on same order with purchase of **kit H-100 Series** Computer,

Shpg. wt. 18 lbs. . . . \$545.00 separately, ONLY 325.00

Z-DOS, Z-BASIC are trademarks of Zenith Data Systems Corp. CP/M is a registered trademark of Digital Research, Inc. Microsoft is a trademark of Microsoft, Inc. SuperSort, WordStar are trademarks of Micropro International, Inc. Peachtree, PeachText, PeachCalc are registered trademarks of Peachtree Software, Inc. VisiCalc is a registered trademark of VisiCorp.

Problem-solving, ready-to-run software for the H/Z-100 Series Computers



When you buy an H/Z-100 Series Computer, we support your purchase with ready-to-run software programs – as well as hardware and peripherals. Software is supplied in soft-sectored, 48 tpi (tracks per inch) 5.25" floppy diskette form, with a detailed operating manual included.

Easy-to-use software – you don't need a computer expert to develop software for the H/Z-100. Our off-the-shelf software combines common-sense design with plain English commands to guide you through operations which used to be highly technical in nature.

Advanced Multiplan™ 16-Bit Spreadsheet

This personal productivity tool helps you do corporate and family budgeting, make product planning and sales decisions, and much more.

Helps answer those important "what if?" and "now what?" questions: Form worksheets up to 63 columns wide, 255 rows deep. Displays proposed responses to commands and formulas – you decide whether to proceed. Sort data by column and row – highest to lowest, or in alphabetical order.

Perfect for corporate/departmental budgets – make one or several spreadsheets dependent on a master spreadsheet. And you can exchange information between spreadsheets and other applications programs. Detailed manual, on-screen help. Requires Z-DOS (p. 5).

● MS-463-7, Shpg. wt. 6 lbs. 250.00

Supercalc[™]
16-Bit
Electronic
Spreadsheet



Features colorful video

displays: uses faster 16-bit technology, H/Z-100's larger memory

Helps you use your time and energy better: Form worksheets up to 63 columns wide, 255 rows deep. Features IF, AND, OR, NOT conditional calculations, PROTECTion of non-data fields, 127-column text buffer, 117-character formula display.

Intermix with word processing reports: Worksheets stored in standard ASCII file format. Extensive manual, on-screen HELP. Requires Z-DOS (p. 5).

SC-463-1, Shpg. wt. 4 lbs. 195.00





Comes with enhanced color video displays, runs on the H/Z-100's faster 16-bit microprocessor

Specially enhanced for the H/Z-100: WordStar, Version 3.2, features new, colorful video displays – HELP is in yellow, text in green, spelling errors in red. You can also move blocks of text both horizontally and vertically – and new horizontal scroll allows documents wider than 80 characters to be displayed on the screen.

For letter-writing applications: Features full onscreen text formatting. Can also print while you work on a document. Requires Z-DOS (p. 5) and a printer (letter-quality WH-54 recommended).

MP-463-7, Shpg. wt. 5 lbs. 399.00

MailMerge[™] for WordStar

This powerful 16-bit file merging tool can help reduce your mailing costs, too.

Makes WordStar even more valuable: MailMerge, Version 3.2, enables the creation of personalized form letters and mailing labels from the same data file. You can also print the same file more than once, or specify printing of a file within text. Requires Z-DOS (p. 5), WordStar (above) and a printer (WH-54 recommended).

MP-463-8, Shpg. wt. 5 lbs. 139.00

Condor® Series 20 rDBMS

Data base management system with powerful indexing and report writing capabilities

Even first-time computer users can enter, analyze and print data: Simplifies, speeds information processing for business functions. Can even develop a menu-driven applications system without additional software or programming.

Relational data base concept: Organize data – then use English-type commands to dynamically related unrelated data to fit your needs.

Very fast: Use 32,767 records/file, 1,023 bytes/record, 127 fields/record, 127 characters/field. Also has file indexing, report writing/printing, to manual, onscreen HELP. Needs Z-DOS (p. 5).

● CD-463-1, Shpg. wt. 4 lbs. 650.00

Condor File Manager

When you need simple, disciplined organization and maintenance of your data files

Traditional file management – and more: Enter and change data on files – and sort, merge, analyze and print that data, all without previous programming experience. Special features are also available via an English-like data language.

Very fast: Has DEFINE to create new files in minutes, STAX command to view/print statistics, manual, onscreen HELP.Upgrade to Condor rDBMS when needs grow. Needs Z-DOS (p. 5).

● CD-463-2, Shpg. wt. 4 lbs. 299.00

NEW! Peachtree® 16-Bit Business Software

These ready-to-run software programs, designed to use the faster 16-bit technology of the H/Z-100, can automate your financial operation – giving you more time to help your enterprise grow. Sample data for practicing is included.

These programs require the Z-DOS Operating System (p. 5). For a smooth transition, you should have a basic knowledge of computers – and consultation with an accountant or data processing professional may be needed.

General Ledger System

Speeds reporting of financial information, gives you current facts to make decisions on

Maintains your financial history: Peachtree General Ledger is the nucleus of your financial reporting system. It records all your financial transactions, generates accurate and timely balance sheets and company-wide/departmental income statements, and supplies comparative data from one year ago or established budget amounts.

Control expenses before they get out of hand:

Sixteen useful programs included. Fully links to other Peachtree business software programs.

RS-463-1, General Ledger System to handle approximately 500 accounts and 2,000 transactions per month – depending on how you run your business, Shpg. wt. 5 lbs.
 399.00

Accounts Receivable System

This system tells you about problem accounts – before they become a problem

Complete invoicing/monthly statement generating system: Helps you get quicker payment, and the money you're owed on aged accounts receivable. Also saves on accounting labor costs.

Keeps account files for each customer: Generates statements, an aging report and transaction reports for each customer. Links to Peachtree General Ledger and Sales Invoicing programs.

Accounts Payable System

Easy-to-use software gives you automated pinpoint control of your outgoing cash flow

Keeps track of current and aged accounts payable: Puts you back in control of outgoing cash flow. Lets you pay obligations when it's best for you – take advantage of early payment discounts.

Reports generated: Transaction register, cash requirements, open invoices and invoice aging. Links to Peachtree General Ledger System.

 RS-463-3, Accounts Payable System to handle approximately 400 accounts and 900 transactions per month, Shpg. wt. 4 lbs. 399.00

Inventory Control

Lets you use current information, not outdated reports, to manage your most costly asset

Improves customer service and response time: Designed to give you better merchandise control, let you decrease your inventory investment, and improve customer service and response.

Reports provided: Detail inventory, departmental inventory summary, inventory status, reorders, period-to-date and year-to-date reports.

RS-463-5, Inventory Management to handle approximately 1,800 items, 4 lbs. 499.00

Peachtree is a registered trademark of Peachtree Software, Inc. Multiplan is a trademark of Microsoft, Inc. SuperCalc is a trademark of Sorcim Corp. WordStar and MailMerge are trademarks of Micropro International Corporation. CondorrDBMS is a registered trademark of, and is marketed pursuant to a license from, Condor Computer Corporation.



Low-priced power and versatility to meet H-89 your personal and business computing needs. Computer:

Runs industry standard CP/M® software: Choose from hundreds of programs, ready to run on the H-89.

48K bytes of RAM standard: Enough memory power to perform most home and business computing functions - with built-in diagnostics. Expand to 64K RAM with the WH-88-16 RAM Expansion Set on

Dual microprocessors: The computer never has to share power with the built-in video terminal, enabling the H-89 to perform many high-speed tasks.

Built-in disk storage: 100K bytes, expandable to 640K bytes with the optional Z-89-37 Disk Controller and H-17-4 Double-Sided Disk Drive (p. 11). External disk systems (p. 11) can expand capacity to 1.92 megabytes.

Use as a professional video terminal (with appropriate software): Has H/Z-19 display functions (p. 14). 12" diagonal CRT shows 25 80-character lines. Typewriter-format keyboard, with 12-key numeric pad, prints the upper/lower case ASCII set plus 33 graphics symbols.

Control 32 terminal functions: Use reverse video (black on white) to emphasize any portion of the screen. Select baud rates up to 9600.

Save when you buy: And if you plan to use the H-89 for business purposes, ask your tax adviser about possible tax credits for possible additional savings. The H-89 requires CP/M-80, HDOS or similar operating system software for normal operation.

CP/M is a registered trademark of Digital Research, Inc.

Kit computer products with the Heathkit label are designed for home and business use, and meet all requirements of the FCC for operation in the residential environment.

Heathkit Zenith data syste

Most assembled ZDS products are designed for commercial use. Operation in residential areas may require the operator to correct unacceptable interference to radio and TV reception.

H-89A SPECIFICATIONS: CPU AND MEMORY: Clock: 2.048 MHz. VIDEO TERMINAL: Character Size: Approximately 0.2" H x 0.1" W (0.51 x 0.25 cm). Character Type: Upper case and Lower case without descenders, 5 x 7 dot matrix; Lower case with descenders, 5 x 9 dot matrix; Graphics, 8 x 10 dot matrix. Keyboard: 84 keys (60 alphanumeric keys and 12 function control keys), plus a 12-key numeric/control pad. Tab: Standard eight-column tab. Edit Functions: Insert and delete character or line. Erase Functions: Erase line or page, from beginning of line/page, to end of line/page. Bell: Audible alarm on receipt of ASCII BEL. Power Requirement: 120/240 VAC. **Dimensions:** 13" H x 17" W x 20" D.

There's a budget-priced H-89 system that fits your needs



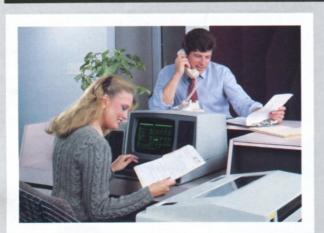
H-89 Home/Word Processing System

This system has 48K bytes of Random Access Memory (RAM), three EIA Standard RS-232C Serial Interface ports and 200K bytes of floppy disk storage on two single-sided 5.25-inch drives.

Order an H-89 Computer and the HS-77-1 5.25-Inch Floppy Disk System (shown on page 11).

SAVE UP TO \$985: When you buy this H-89 Computer System, you can select three software programs from the offer #1 list on page 10, with a value of up to \$985, at no extra charge! Please specify model numbers when ordering.

\$98500



Medium-capability H-89 Computer System

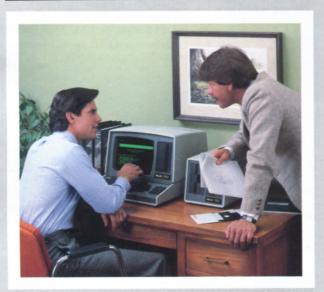
For small businesses and programmers: Has 64K bytes of RAM, 1.38 megabytes of floppy disk storage on three 5.25-inch drives and three serial ports.

Order the H-89, one WH-88-16 64K Wired Memory

Order the H-89, one WH-88-16 64K Wired Memory Expansion Board (p.10), the Z-89-37 Soft-Sectored Disk Controller Board (p.11) and the high-capacity HS-37-2 Floppy Disk System (p. 11).

SAVE UP TO \$985: When you buy this H-89 Computer System, you can select three software programs from the offer #1 list on page 10, with a value of up to \$985, at no extra charge! Please specify model numbers when ordering.

\$985⁰⁰



Maximum-capability H-89 System

For business and commercial applications: This system has 64K bytes of Random Access Memory (RAM), 1.92 megabytes of floppy disk storage on three soft-sectored 5.25-inch drives, and three EIA Standard RS-232C Serial Interface ports.

Order the H-89, one WH-88-16 64K Wired Memory Expansion Board (p. 10), the Z-89-37 Soft-Sectored Disk Controller Board (p. 11), an H-17-4 Double-Sided Disk Drive (p. 11), an H-88-9 Installation Kit (p. 11) and the high-capacity HS-37-2 Floppy Disk System (also on p. 11).

SAVE UP TO \$985: When you buy this H-89 Computer System, you can select three software programs from the offer #1 list on page 10, with a value of up to \$985, at no extra charge! Please specify model numbers when ordering.

\$98500

Customize an H-89 Computer to fit your unique needs

H-89 Computer Kits: A complete, easy-to-build, self-contained computer system with two eight-bit microprocessors for maximum speed and versatility. The standard system includes a built-in 12" diagonal CRT screen, 48K bytes of Random Access Memory (RAM, expandable to 64K bytes), a single-sided disk drive for up to 100 KB of on-line storage with the single-density disk controller board included (a double-density disk controller board is available on page 11 to help you expand disk storage capacity), and three serial input/output (I/O) ports to communicate with modems, printers and other peripherals.

Get up to \$985 in software at no extra charge! You receive three programs, from a specially-selected list of eight programs, at no extra charge when you purchase an H-89. Operating systems, languages, a work processor and an electronic spreadsheet are included on the program list. See below.

Kit HS-89-3, with 48KB RAM, 100 KB disk drive and built-in standard white CRT, Shpg. wt. 96 lbs. \$1399.00



The Heathkit H-89 Computer is Class B Certified by the Federal Communications Commission (FCC) for interference-free use in homes and businesses.

Multi-Mode Interface Card: Use with RBTE (p. 24) to enable H/Z-89 and Z-90 to emulate various IBM data terminals. Also has Centronics-style I/O port, which lets the H/Z-89 and Z-90 use parallel printers like the MX-80A (p. 13). Needs CP/M 2.204 (available Aug.) or custom software.

Z-89-11, Assembled, Shpg. wt. 1 lb. 150.00

GET SOFTWARE AT NO EXTRA CHARGE!

OFFER #1: Choose three of the eight programs below, when you purchase an H-89 Computer Kit from this catalog:

Operating Systems: Industry standard CP/M-80[®] and HDOS. **Languages:** Microsoft ™ BASIC Interpreter and Compiler, Microsoft FORTRAN and Microsoft COBOL.

Word Processor: Magic Wand saves saves time and frustration. **Spreadsheet:** Versatile SuperCalc Electronic Spreadsheet

makes answering "what if?" questions faster and easier.
*Offer applies only to single-quantity H-89 purchases from this catalog, not to

*Offer applies only to single-quantity H-89 purchases from this catalog, not to Z-89s or Z-90s. ČP/M is a registered trademark of Digital Research, Inc.

H/Z-89, Z-90 Computers/5.25" Disk System Configuration Chart

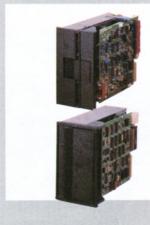
System Components	Internal Disk Storage	External Disk Storage	Total Disk Storage Capacity		
H/Z-89 (Note 1)	One 100 KB hard-sectored drive	_	100 KB		
H/Z-89 (Note 1) H-77/Z-87 (Note 2)	One 100 KB hard-sectored drive	One or two 100 KB hard-sectored drives	200 or 300 KB		
H/Z-89, Z-90 (Notes 1, 2) Z-89-37 H-17-4, H-88-9 (Optional)	One 160 KB or 640 KB internal drive	_	-160 KB or 640 KB		
H/Z-89, Z-90 (Notes 1, 2) Z-89-37 H-17-4, H-88-9 (Optional) H-77/Z-87 (Note 3)	One 100 KB, 160 KB or 640 KB internal drive	One (or two) 160 KB double-density drives	100, 160, 260, 320, 420, 480, 640, 800, or 960 KB		
H/Z-89, Z-90 (Notes 1, 2) Z-89-37 H-17-4, H-88-9 (Optional) H/Z-37 (Notes 3, 4)	One 100 KB, 160 KB or 640 KB internal drive	One (or two) 640 KB, double- density external drives	100, 160, 640, 740, or 800 KB; 1.28, 1.38, 1.44 or 1.92 MB		

NOTES: (1) When ordering an H-89, use -2 or -3 for desired CRT. (2) Z-90s include Z-89-37 Disk Controller. (3) When ordering an HS-77 or HS-37, use -1 or -2 for desired number of drives; Z-87s, Z-37s have two drives. (4) H-17-4 and H/Z-37 require Z-89-37.

H/Z-89, Z-90 Accessories **Assembled 64K RAM Expansion** Kit: Expands 48K H/Z-89s to 64K RAM. WH-88-16, Shpg. wt. 1 lb. 115.00 16K RAM Expansion Kit: Expand converted H-19s, older H/Z-89s in 16K increments up to 48K RAM. H-88-2, Shpg. wt. 1 lb. 29.00 Three-Port RS-232C Serial Interface: For older H/Z-89s. HA-88-3, Shpg. wt. 2 lbs. 150.00 **Double-Sided Disk Drive Installa**tion Kit: Needed to install H-17-4 Drive inside H/Z-89, Z-90 cabinet. H-88-9, Shpg. wt. 4 lbs. 50.00 Wire Wrapping Board w/bus connectors: Design custom circuits. Uses HCA-6, HCA-7 below. Kit H-88-10,1 lb. 30.00 Wire Wrapping Kit: Tool, 50' wire, 200 pre-cut, pre-stripped wires. Kit HCA-6, Shpg. wt. 1 lb. 13.95 Wire Wrapping Socket Kit: 36# 3-level sockets (14- to 40-pin). Kit HCA-7, Shpg. wt. 1 lb. 29.95 **Black Fabric Anti-Glare CRT** Filter: For standard 12" CRTs. HCA-4, Shpg. wt. 1 lb. 19.95 H/Z-89, Z-90, H/Z-19 Dust Cover.

HCA-5-89, Shpg. wt. 1 lb. 14.00

Increase the disk storage capacity of your H/Z-89 or Z-90



Use singlesided 5.25" disk drives

Or highercapacity doublesided drives



H-77/Z-87, H/Z-37 – up to 1.28 megabytes: You get excellent flexibility in system configuration and plugin adaptability to H/Z-89, Z-90 Computers. The 5.25" disk drives mount vertically to take up less space, provide extremely accurate access to data.

Choose from kit or assembled models: Easy-to-build kits include a complete Heathkit assembly and operation manual. Choose the Z-87 or Z-37 that's right for you from the chart below. 120/240 VAC. Measures 85%" H x 87%" W x 15" D.

How to order external 5.25" disk storage for H/Z-89s, Z-90s

All disk systems below require either H-88-1 Hard-Sectored Disk Controller (included with H/Z-89) or Z-89-37 Soft-Sectored Disk Controller (included with Z-89), as listed (order from right, if needed).

	On-Line Sto	rage Capacity	Order N	Model Number		
Drives	With H-88-1 With Z-89-37		Heathkit	Zimen data systems	Shpg. wt.	Price
One H-17-1 (Single-Sided)	100K bytes	160K bytes	Kit HS-77-1	-	34 lbs.	\$525.00
		Kit HS-77-2	_	47 lbs.	795.00	
Two H-17-1 (Single-Sided)		320K bytes	_	Z-87-89 , for H/Z-89 Z-87-90 , for H/Z-90	28 lbs.	999.00
One H-17-4 (Double-Sided)		640K bytes	Kit HS-37-1	-	34 lbs.	795.00
Two H-17-4		4.00	Kit HS-37-2	_	47 lbs.	1295.00
(Double-Sided)	— 1.28 megabytes -		_	Z-37	28 lbs.	1699.00

H/Z-89, Z-90 owners: Upgrade for maximum storage!

You have five options to upgrade present H/Z-89s and Z-90s to gain additional disk storage:

- 1. Add the H-77/Z-87 Single-Sided 5.25" Floppy Disk System for up to 200K bytes (100K per drive) of additional storage.
- **2.** Add the Z-89-37 Soft-Sectored Disk Controller Board to H/Z-89s to raise single-sided 5.25" disk storage capacity to 160 KB.
- **3.** Add the Z-89-37, H-17-4 Drive and H-88-9 to increase internal storage capacity to 640 KB.
- **4.** Add the Z-89-37 and H-77/Z-87 to add up to 320 KB of storage.
- **5.** Add the Z-89-37 and H/Z-37 Disk System for up to 1.28 MB of additional storage.

NOTE: Compatible disk controller(s) required for each system. Z-90s have Z-89-37 Controller. Disk storage accessories Soft-Sectored Disk Controller

Board for H/Z-89 Computers: Increases data storage capacity, allows use of H-17-4 and H/Z-37.

Z-89-37, Assem., 4 lbs. . **299.00**

Hard-Sectored Disk Controller Board for Z-90 Computers: Use only with H-17-1 Disk Drives.

H-88-1, Assem., 3 lbs. . . 150.00

Double-sided Floppy Disk Drive For H/Z-89s, Z-90s,

H/Z-37s: Stores up to 640 KB on a single disk. Needs Z-89-37 above; also, H-88-9 (left) for internal use in H/Z-89s.

H-17-4, Assem., 5 lbs. . . 550.00

Single-Sided Floppy Disk Drive for H-77/Z-87s Stores up to 160K bytes per disk when used with Z-89-37 Disk Controller above, 100 KB when used with H-88-1.

H-17-1, Assem., 5 lbs. . . 295.00

Dust Cover: Protects H/Z-37, H-77/Z-87 from contaminants.

HCA-5-77, Shpg. wt. 1 lb. 14.00

High-speed 125 Dot Matrix Line Printer is packed with valuable features

Prints at over 150 characters per second; its 33 graphics characters are compatible with most Heath/Zenith computers, terminals

Heavy-duty state-of-the art design provides more features, assures long life and reliable printer operation.

Faster speed, versatile paper handling, quiet operation and rugged construction – all at a surprisingly low cost: The Heath/Zenith 125 prints the full 96-character ASCII set (upper and lower case, with descenders and underlining).

Quad tractor feeds with adjustable width: The 125 can handle standard edge-punched, single or multiple forms (up to six parts thick) or fan-fold paper.

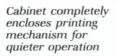
Features variable pitch: Prints 10, 12, 13.2 or 16.5 characters per horizontal inch, with six or eight lines per inch vertical spacing available.

Interfaces with most computers and terminals: Has RS-232C or 20 mA current loop interfacing, with handshaking adjustable by reverse channel and busy control signals. Communication speeds are adjustable from 110-9600 baud. "Paper out" and "jammed" indicators, self-testing capabilities are included. 120/240 VAC, 50/60 Hz. 8.25" H x 26.5" W x 18.5" D.

120/240 VAC, 50/60 Hz. 8.25" H x 26.5" W x 18.5" D.

HOUTHAIL KIT H-125, Printer Kit in H/Z-100 colors, Shpg. wt. 85 lbs. 899.00

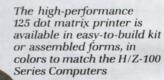
2-1 | Martine | Z-125, Assembled Printer in H/Z-100 colors,



Quad tractor feed for positive, accurate control of paper

Uses plug-in, no-mess ribbon cartridges for clean, easy replacement









Good performance at an affordable price – buy the compact MX-80A Line Printer

Now prints 12 additional line graphics characters: Also prints subscripts, superscripts, italics, underlining, and the full 96-character ASCII set.

Throughputs a fast 46 lines/minute (using 80-character lines): Pick 40-, 64-, 80-, or 132-character lines, four distinct modes for 12 printing combinations.

Includes Centronics-style 8-bit parallel interface: For H/Z-100 Computer (needs HCA-20, p. 18) and ZT-1 (needs ZTA-1-1, p. 15). Communicates with H/Z-89 via optional MX-80-3 232C Serial Interface below (needs HCA-10, p. 18), or the Z-89-11 I/O Board, p. 9 (needs HCA-14, p. 16, and CP/M 2.204 – available Aug. – or custom software). 120 VAC. 1½" H x 14¾" W x 12" D.

Features bi-directional printing, advanced logic seeking in 12 combinations to maximize throughout

while hundreds of shell neighborhoods.

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World News Summary By United Press Interna



Letter-quality Diablo Printer is ideal for word processing systems

Ideal for word processing, other applications requiring high-quality printing: Uses metal, plastic print wheels – allowing you to utilize durable metal print wheels with high-production word processors.

State-of-the-art design: The Diablo 630 uses microprocessor technology and fewer moving parts for greater versatility and reliability.

Prints up to 35-40 characters per second (cps): Outputs full 96-character ASCII set (upper/lower case), utilizing bi-directional printing for maximum speed. Its RS-232C Serial Interface (compatible with Bell 102, 113, 212 and equivalent modems) runs at 110-1200 baud, and has a 256-byte print buffer.

Accepts forms up to 15.5 inches (39.3 cm) wide: Forms up to 27/1000 inch (0.0686 cm) thick can be accommodated. Includes friction platen, HCS-22 Print Wheel (Elite 12 w/unslashed zero) and HCS-51 Film Ribbon. 120/240 VAC. 9.25" H x 23.5" W x 15.75" D.

WH-54, Assembled, 70 lbs., Mtr. Frt. 2295.00

Uses both metal According to the Aircrand plastic
Diablo print
wheels for maximum flexibility; fewer parts for maximum reliability

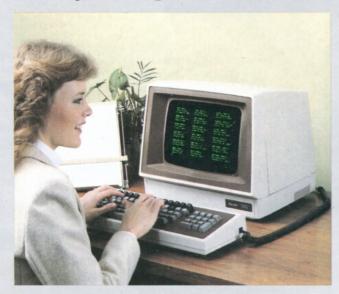
Uses both metal According to the Aircrand plastic

Over 6,000 public use
1000 VORs, and 1100 No maximum maintain on the file handling round modified.

Bi-Directional Tractor Feed Assembly: For WH-54 (Diablo 630) and WH-44 (Diablo 1640) Printers. Dual tractors allow improved registration in word processing, graphics and other applications.

HCA-1, Assembled, Shpg. wt. 9 lbs. 259.00

Money-saving, time-saving video terminals



H/Z-29: affordable state-of-the-art VDT features detached keyboard design

Compatible with: ANSI, DEC VT-52, Hazeltine 1500A, H/Z-19 and Lear Siegler ADM-3A protocol – and has many attributes of the DEC VT-100 for even greater versatility.

Detached high-quality 91-key typewriter-style keyboard: Has separate 14-key numeric pad, N-key rollover for fast typists, auto-repeat on most keys. Generates std. 128-character ASCII set; alternate set available on per-character basis. Connects to monitor with 8' cable (included).

Improved video quality: Easy-on-the-eyes 25 line x 80 character 12" diagonal non-glare green display has characters as large as 8 x 10 dots.

LED status panel: Shows "power on," "keyboard lock," "off line," "caps lock." Clock tracks elapsed mainframe or time-sharing system time.

Easy-to-use, English-language set-up mode: Configure the H/Z-29 to fit your needs. Store set-up parameters in non-volatile memory.

Serial port allows use of peripherals:

Communicate from 75-19,200 baud (some applications may require handshaking at 9,600 and 19,200 baud).

Available in easy-to-build, money-saving kit form: Meets FCC, UL and CSA stds. for home and business use. 120 VAC. Keyboard, 3" H x 18" W x 71/4" D; Video Monitor, 14" H x 151/2" W x 141/4" D.

Heathkit Kit H-29, Shpg. wt. 41 lbs ONLY 59	9.00
Zerr systems Z-29, Assembled and tested, 38 lbs. 84	9.00
Z-29-1, Palm Rest to reduce fatigue, 1 lb 1	5.00
Z-29-2, ROM Listing for H/Z-29, Wt. 4 lbs 2	5.00



H-19 VDT has fast Z-80 microprocessor for efficient operation

Excellent capabilities for its price: The H-19 VDT is compatible with systems using the DEC VT-52 Terminal, and also with systems using an RS-232C Serial Interface. It has microprocessor intelligence for complete screen control – and its features help you operate at optimum efficiency.

Control 32 functions: Configure from keyboard, outside computer, or internal switches. The 84-key typewriter-style keyboard generates the entire ASCII set and 33 graphics characters, with eight userfunction keys also available. A 12-key calculator-style numeric pad makes insertion of financial and mathematical data faster, easier.

Easy-to-see video display screen: The H-19 shows twenty-four 80-character lines (plus a software-controlled 25th line which can show system status or perform other functions). Make corrections or edit – anywhere on the screen – using direct or relative cursor addressing.

Non-glare or standard CRTs available: You can choose an easy-on-the-eyes non-glare green CRT, or the bright, standard white CRT. Both measure a big 12" Diagonally. The H-19 Video Display Terminal runs on 120/240 VAC power, drawing only 45 Watts. Designed to fit on a desktop, it measures 13" H x 17" W x 20" D (33.02 x 43.18 x 50.8 cm).

Heathkit	Kit HS-19-2, Easy-to-build Video Display
	Terminal with non-glare green CRT,
	Shpg. wt. 52 lbs
-	Kit HS-19-2 Facy-to-build Video Dienlay

Low-cost Heath/Zenith Personal Information Terminal



Access a world of information!

Popular ZT-1 Series Information Terminal: Talk with many different information services. Easy to use, even without prior training.

Dials up to 26 phone numbers: Clock, 76-key keyboard, printer port. Video display comes with some models. FCC OK'd for home, business use. 120 VAC. 11.75" H x 161/4" W x 12" D, excluding monitor. Order from chart below.

Or the result of	
ZT-1-2, Carrying Case, 2 lbs	24.99
ZTA-1-1, Parallel Cable connects ZT-1 to C	Centronics-
style printers like MX-80A, 1 lb	25.00
TM-1 7T-1/1A Technical Manual 1 lb	50.00



NEW! 9600 baud, more features!

Has RS-232C serial port: Hook our new HT/ZT-10 and -11 series Terminals up to large computers, peripherals. Programmable one-key access to information services, and 300 baud modem, are also available – see chart below.

Meets FCC requirements for home and business use: Kits are easy to build. 120 VAC. 11.75" H x 16½" W x 12" D, excluding monitor. Order from chart below.

HTX-10-1, Auto-dial and auto-answer 300 Baud Modem for HTX-10, ZT/ZTX-10, 1 lb 69.95

SAVE up to \$40 from separate prices – buy the Personal Information Terminal with a ZVM-121 Video Monitor!

Model:	Video Monitor?	Parallel Printer Port?	9600 baud RS-232C Serial Port?	300 baud Modem?	One-key Source access?	One-key CompuServe access?	Programmable one-key access?	Shpg. wt.	PRICE
Heathkit Kit HT-10	YES	YES	YES	NO	NO	NO	NO	36 lbs.	\$399.00
Heathkit Kit HTX-10	NO	YES	YES	NO	NO	NO	NO	10 lbs.	279.00
Heathkit Kit HT-1011	YES	YES	YES	YES	NO	NO	YES	44 lbs.	449.00
Zterr data systems ZT-1, Assem.	YES	YES	NO	YES	NO	YES	NO	32 lbs.	569.0
Zeerre data systems ZTX-1 Assem.	NO	YES	NO	YES	NO	YES	NO	6 lbs.	449.0
Zierre data systems ZT-1A, Assem.	YES	YES	NO	YES	YES	NO	NO	32 lbs.	569.0
Zeerre data systems ZTX-1A, Assem.	NO	YES	NO	YES	YES	NO	NO	6 lbs.	449.0
Zum data systems ZT-10, Assem.	YES	YES	YES	NO	NO	NO	NO	32 lbs.	499.0
Zemerne data systems ZTX-10, Assem.	NO	YES	YES	NO	NO	NO	NO	6 lbs.	399.0
Ztern data systems ZT-11, Assem.	YES	YES	YES	YES	NO	NO	YES	32 lbs.	579.0
ZTX-11, Assem.	NO	YES	YES	YES	NO	NO	YES	6 lbs.	479.0

Top off your computer system with a Heath/Zenith video monitor

Whether you need a high-resolution color, medium-resolution color, or high-resolution monochrome video monitor, Heath/Zenith has a model from its complete video display line that's right for you.

You're assured of the best, easiest-on-the-eyes video displays, because Zenith is known worldwide for the outstanding quality it puts into its video products – before the name goes on.



High-resolution Monochrome Video Display

Available with amber or green CRTs; contemporary styling in H/Z-100 and IBMcompatible colors.

Performs as well as high-priced units: Accepts direct EIA monochrome video. Wide >15 MHz bandwidth and fast 50 nS rise time provide excellent character definition on the 12" diagonal 25 x 80 screen. 120 VAC. 11 3 4" H x 16 1 4" W x 12" D.

High-resolution Color Video Display

Features outstanding 640 x 225 pixel resolution and attractive styling

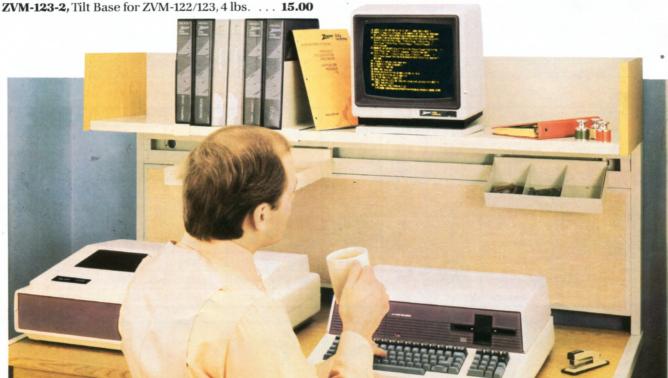


For systems demanding the best color video: The 13" diagonal ZVM-135 takes direct RGB color video inputs. 25 x 80 screen. Extra-wide 20 MHz bandwidth, super-fast 20 nS rise time for great pictures. FCC and UL approved for home/office use. 120 VAC. 13½" H x 20" W x 15" D.

Heath/Zenith Color Video Displays:

ZVM-135, Assem., High-Resolution, 36 lbs. . . 649.00 ZVM-131, Assem., Medium-Resolution, 36 lbs. . 379.00 Cables for ZVM-135 and ZVM-131 Color Video Displays:

1 0	
ZVM-135-1, for H/Z-100 Computer,1 lb	25.00
ZVM-135-2, for IBM PC, Shpg. wt.1 lb	25.00
ZVM-135-3, for Apple computers, 1 lb	25.00
ZVM-135-4, for TI/Commodore models, 1 lb.	25.00



Peripherals and accessories expand capabilities of Heath/Zenith computers

Acoustic Modem: ideal for any phone

Lets your computer exchange data with other computers



Has many practical and useful applications: 110-300 baud. RS-232C Interface. Powered by UL- and CSA-listed 120 VAC AC Adapter (included). Needs HCA-11 Cable (p. 18). 2*/s" H x 10" W x 5*/2" D.

WH-23, Assembled, Shpg. wt. 3 lbs. 139.00

NEW! Lowest-cost Direct-Connect Modem

Sets new quality reliability and value standards – while keeping data distortion, loss and cost to a minimum.



Full-duplex communication at 300 baud: RS-232C Interface. Requires single-line phone with modular connectors and HCA-11 Cable (p. 18). 120 VAC transformer included. 5" H x 6½" W x 2" L.

WH-63, Assembled, Shpg. wt. 3 lbs. 99.00

Auto-dial, auto-answer Smartmodem

Now available in 300- or fast 1200-baud versions, this versatile instrument is programmable from your computer



Our best modems: Hayes models automatically pulse or tone-dial and answer the phone. Use std. Bell 103 protocol, run at 110/300 baud. Connect to std. single-line modular phone systems. 120 VAC transformer included; HCA-11 (p. 18) needed. HUG software (p. 32) recommended for H/Z-100s; CPS (p. 24), for H/Z-89s/Z-90s.

WH-43, Assembled, 300 Baud, Shpg. wt. 3 lbs. 279.00 NEW! 1200 Baud Version: Identical to above, but also supports standard Bell 212 1200 baud mode. Cuts the cost of your long-distance data calls up to 75%, and improves productivity.

WH-53, Assembled, 1200 Baud, 4 lbs. 695.00

Hayes Chronograph adds time-keeping

Perfect for time-share, electronic mail, home/ office security and many other applications



Keep your system up-to-date: Time/date for any RS-232C-compatible system. 120 VAC, with power failure battery backup. 23/8'' H x 51/2'' W x 93/8'' D. NOTE: Not supported by current software.

WH-42, Assembled, Shpg. wt. 4 lbs. 199.00



① Save \$76.00 on Type-'N-Talk Synthesizer Your computer can talk to you, with an unlimited vocabulary: Just enter English text and hear electronic speech through a one-Watt, eight-Ohm speaker (amplifier included; external speaker not included). Uses one RS-232C port at 75 to 9600 baud.

Includes complete instructions: Now, most any computer enthusiast can use Type 'N Talk – it's fully software supported by Heath/Zenith. Requires HCA-13 Cable (p. 18). 120 VAC, 60 Hz. 31/8" H x 73/4" W x 51/4" D (7.87 x 19.56 x 13.21 cm).

WH-12, Assembled, Shpg. wt. 5 lbs. 299.00

TI LCD Programmer/Calculator

New, easier-to-read LCD display: Compact unit goes anywhere. Has special memory and logic functions. Rechargeable battery and 120 VAC adapter/charger are included. 5½" H x 3" W x 1½" D.

PC-12, Assembled, Shpg. wt. 1 lb. 79.95

③ NEW! RS-232C I/O Line Tester: Cuts repair costs by helping pinpoint transmission difficulties before a technician is called. Monitors 12 different signals.

WH-15, Assembled, Shpg. wt. 1 lb. 119.00

Surge Suppressor: Protects computer equipment from damage by transient voltage surges. UL Listed. 120 VAC, 60 Hz, 15 Amps. 1½" H x 29%" W x 1½" D. **HCA-16,** Assembled, Shpg. wt. 1 lb. **65.00**

Paper Tractor: Inexpensively turns your tractor feed printer into a friction feed printing system. Uses most any paper. No modifications required.

Protective Floppy Disk Storage Cabinets

Plastic 5.25" Cabinet: Protects up to 50 disks from airborne contaminants. 5 dividers. Smoked glass cover. Cabinet measures 6½" H x 6¾" W x 8¼" D.



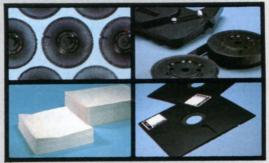
HCA-15,

Shpg. wt. 2 lbs. 24.00

Get top performance from your computer system with these high-quality Heath/Zenith supplies

Heath/Zenith offers this complete line of computer supplies to support its popular microcomputers, peripherals and software - as well as to support users of other microcomputers. These specially-selected products not only add flexibility and versatility to your computer system - they offer consistently high quality and reliable performance.

Whether you're looking for cables, printwheels, paper, ribbons or floppy disks - look to Heath/Zenith for a wide selection of the supplies and accessories you need - sold at affordable prices.



Pre-wired, 10' RS-232 Cables: Connects pins 1-8, 20. HCA-10, Male to Male Cable, Shpg. wt. 1 lb. 20.00 HCA-11, Male to Female Cable, 1 lb. 20.00 HCA-12, Female to Female Cable, 1 lb. 20.00 Pre-wired, 10' special-application Cables:	Plug-in Ribbon Cartridges for WH-34 DECWriter Printer. HCS-54, Shpg. wt. 1 lb Packge of three, 29.00 Plug-in, no-mess Ribbon Cartridge for MX-80 Printer. HCS-55, Shpg. wt. 1 lb
HCA-13, Votrax Cable (connects H/Z-89 to WH-12 Type-N-	HCS-56, Shpg. wt. 3 lbs Package of two, 20.00
Talk Speech Synthesizer), Shpg. wt. 1 lb 20.00	Top-quality, competitively-priced paper for printers:
HCA-14, Parallel Cable (for use with Z-89-11 I/O Board to connect H/Z-89 to MX-80 printer), 1 lb	Correspondence-Quality 8.5" x 11" One-Part, Fan-Fold Paper. Continuous form, 2700 sheets. Edge-punched. HCS-1, Shpg. wt. 28 lbs
Large selection of durable plastic Diablo printwheels:	except H/WH-14 and MX-80. Edge-punched. HCS-3 , Shpg. wt. 47 lbs
Courrier 10 (Diablo 38100). Pica with slashed zero. HCS-20, Shpg. wt. 1 lb	Reliable, high-capacity 5.25" and 8" floppy disks:
Courrier 12 (Diablo 38107). Elite w/unslashed zero. HCS-21, Shpg. wt. 1 lb	Hard-sectored, single-sided 5.25" Floppy Disks. Use with H-17-1 Drives, H-88-1 Disk Controllers. 100 KB. HCS-70, Shpg. wt. 1 lb
PL-10 Computer Language Font (Diablo 38150). CS-24, Shpg. wt. 1 lb	Soft-sectored, double-sided, double-density 48 tpi 5.25" Floppy Disks. For H/Z-89 with H-17-4 Drives & Z-89-37 Controller.320 KB. HCS-71, Shpg. wt. 1 lb Package of ten, 50.00
Prestige Elite Legal 12A (D. 38105). Has legal symbols, ncluding (C), (R) and (TM). HCS-26, Shpg. wt. 1 lb 8.00	Soft-sectored, double-sided, double-density 96 tpi 5.25" Floppy Disks. For H/Z-100, or H/Z-89 with H-17-1 or H-17-4
ourrier Legal 10 (D. 38104). Pica w/legal symbols. CS-27, Shpg. wt. 1 lb	Drives and Z-89-37 Controller. 640K bytes. HCS-68, Shpg. wt. 1 lb
tigh-quality, long-lasting ribbons for printers:	Disks. Use with H/Z-207, H/WH-27, H/Z-47, Z-67 and other disk systems. 250K bytes per disk. IBM 3740 format.
Plug-in Cloth Ribbon Cartridges for Diablo Printers. ICS-50, Shpg. wt. 1 lb	HCS-69, Shpg. wt. 2 lbs Package of ten, 55.00 Soft-sectored, single-sided double-density, 8" Floppy Disks. For H/Z-207, H/Z-47, Z-67, others. 500 KB. HCS-64, Shpg. wt. 2 lbs Package of ten, 60.00
Dill f HAMI 14 I ACD 00 D-4 M-4-in D-intere	Set sectored double sided double density 6" Florey

Ribbons for H/WH-14 and ASR-33 Dot Matrix Printers. HCS-52, Shpg. wt. 1 lb. Package of three, 8.00

Ribbons for WH-24 (TI 810) and H-36 (LA-36) Printers.

HCS-53, Shpg. wt. 1 lb. Package of three, 18.00

Plug-in, no-mess Ribbon Cartridge for MX-80 Printer. HCS-55, Shpg. wt. 1 lb
Top-quality, competitively-priced paper for printers:
Correspondence-Quality 8.5" x 11" One-Part, Fan-Fold Paper. Continuous form, 2700 sheets. Edge-punched. HCS-1, Shpg. wt. 28 lbs
Reliable, high-capacity 5.25" and 8" floppy disks:
Hard-sectored, single-sided 5.25" Floppy Disks. Use with H-17-1 Drives, H-88-1 Disk Controllers. 100 KB. HCS-70, Shpg. wt. 1 lb
Floppy Disks. For H/Z-89 with H-17-4 Drives & Z-89-37 Controller.320 KB. HCS-71 , Shpg. wt. 1 lb Package of ten, 50.00
Soft-sectored, double-sided, double-density 96 tpi 5.25" Floppy Disks. For H/Z-100, or H/Z-89 with H-17-1 or H-17-4 Drives and Z-89-37 Controller. 640K bytes. HCS-68, Shpg. wt. 1 lb

SOFTWARE

Compatibility Chart

(Color shows operating compatibility)

	PROGRAM NAME	H/Z-100 SYSTEMS Optional 125 Printer (or letter-quality printer)	H/Z-89 AND Z-90 SYSTEMS Hard-sectored 5.25" floppy disk drives Optional 125 Printer (or letter-quality printer)	H/Z-89 AND Z-90 SYSTEMS Soft-sectored 5.25" floppy disk drives Optional 125 Printer (or letter-quality printer)	H/Z-89 AND Z-90 SYSTEMS 8" disk drives (H/Z-47 and Z-67) Optional 125 Printer (or letter-quality printer)
	SuperCalc Spreadsheet				
	Multiplan Spreadsheet			(HS-37-2 or Z-37)	
	MicroStat Statistical Analysis				
	Program (CP/M-80)			(HS-37-2 or Z-37)	
	PT General Ledger (64K) PT Accounts Receivable (64K)			(HS-37-2 or Z-37)	
APPLICATIONS	PT Accounts Receivable (64K) PT Accounts Payable (64K)			(HS-37-2 or Z-37)	
SOFTWARE	PT Inventory Management (64K)			(HS-37-2 or Z-37)	PHONE SERVICE SERVICES
	PT Sales Invoicing (64K)			(HS-37-2 or Z-37)	
	PT Property Management (64K)			(HS-37-2 or Z-37)	
	General Ledger II (HDOS)				
	Small Business Inventory				*
DATA BASE MANAGEMENT	Condor rDBMS (64K, CP/M-80)				
SOFTWARE	Condor File Manager (Z-DOS)				
CONTRACTOR OF THE	Magic Wand WP				Description of the second
	Magic Spell Checker				
	WordStar WP				
WORD	MailMerge Utility WordMaster Text Editor (CP/M)				
PROCESSING/ MAILING	DataStar Manipulator (CP/M)				
SOFTWARE	SuperSort Utility (CP/M)			THE RESERVE TO SERVE	
SOLIMALE	PIE Full-Screen Text Editor				
	SOFTSTUFF Text Formatter (HDOS or CP/M-80)				
TO STATE OF THE ST	HDOS Operating System				(H/Z-47 only)
	CP/M-80 Operating System				
	CP/M-85 Operating System				
	UCSD P-System with Pascal				
	Z-DOS (MS-DOS) Op. System				
OPERATING	MAC Macro-Assembler (HDOS or CP/M-80)				
SYSTEM/	MACRO-80 Assembler				
LANGUAGE SOFTWARE	MBASIC Interpreter (CP/M)				
SOFTWARE	MBASIC-80 Compiler (HDOS or CP/M-80)				
	C BASIC (CP/M)	TREES OF THE PARTY			
	Z-BASIC Color Language (Z-DOS)				
	Microsoft FORTRAN (CP/M) Microsoft COBOL (HDOS or CP/M-80)				
	Computerized Phone Sys. (CPS)				DOMESTIC STREET, STREE
	HDOS to CP/M-80 File Converter				
	(HDOS and CP/M-80) IBM 3780 Emulator (CP/M-80)		enter de Caracter Senanção - Calif.		THE RESERVE AND ADDRESS OF THE PARTY OF THE
UTILITY	IBM 3270 Terminal Emulator (CP/M-80)			1	
SOFTWARE	Pearl Program Generator (CP/M-80)			OCCUPATION OF	
	DESPOOL Print Spooler (CP/M-80)		State of the state	WASHINGTON AND THE	RESIDENCE TO SECOND
	SID/ZSID Debugger (CP/M-80)	PROPERTY AND LONG TO SERVICE AND ADDRESS OF THE PARTY OF	De la companya della companya della companya de la companya della	THE PARTY NAMED IN	
SOFTSTUFF SOFTWARE TOOLS					

HEATH/ZENITH 8-BIT APPLICATION SOFTWARE SOLUTIONS FOR YOUR MANY NEEDS

Our easy-to-learn software saves time by increasing efficiency – with fewer errors and less frustration.

Peachtree® business software includes CP/M-80 with Microsoft BASIC (where needed), and sample data for practicing. They need an H/Z-89 or Z-90 with 64K RAM, an H/Z-37 or H/Z-47 Disk System and a basic knowledge of accounting and computers. Most Peachtree software is also available for the H/Z-100; see pages 6 and 7. For a smooth transition, consultation with an accountant or data processing professional may be needed.



GENERAL LEDGER

Maintains your financial history: Designed to be the nucleus of your financial reporting system, Peachtree General Ledger helps you control expenses before costly business problems get out of hand. Keeps records of transactions and resulting balances, describes what happened during a given period.

Reports: Balance sheet summarizing all asset, liability and equity accounts; business-wide and departmental statements reporting income and expenses. Handles up to 32,167 records/file, 1,023 bytes and 127 fields/record, and 127 characters/field.

Provides comparative (current versus year-ago) financial data: Also produces end-of-month and end-of-year reports. Links fully to other Peachtree business accounting programs.

- HRS-837-1 (Requires Sublicense Grant, p. 33), on soft-sectored, double-density, double-sided 5.25-inch floppy disk to handle approximately 200 accounts and 6,600 transactions, 4 lbs. . . 395.00

Peachtree is a registered trademark of Peachtree Software, Inc.



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AUTOMATED ACCOUNTING

Accounts Receivable: Complete invoicing and monthly statement generating system. Tracks current/aged accounts receivable. Maintains customer files – stores account type, balance, tax rate and other information. Checks credit limits, prints invoices and aging reports, keeps tax records. Links to General Ledger (left), Sales Invoicing (right) programs.

- HRS-837-2 (Requires Sublicense Grant, p. 33), on soft-sectored, double-density, double-sided 5.25-inch floppy disk, Shpg. wt. 3 lbs. 395.00
- HRS-847-2 (Requires Sublicense Grant, p. 33), on soft-sectored 8-inch floppy disk for H/Z-47 Disk System, Shpg. wt. 4 lbs. 395.00

Accounts Payable: Keeps track of both current and aged accounts payable. Maintains separate records for each vendor, processes vouchers. Helps determine amount of cash required to pay open invoices, which vouchers to pay, prints checks and a check register. Also processes payments, credits and adjustments. Links to Peachtree General Ledger program at left.

- HRS-837-3 (Requires Sublicense Grant, p. 33), on soft-sectored, double-density, double-sided
 5.25-inch floppy disk, Shpg. wt. 4 lbs. 395.00
- HRS-847-3 (Requires Sublicense Grant, p. 33), on soft-sectored 8-inch floppy disk for H/Z-47 Disk System, Shpg. wt. 2 lbs. 395.00



Software for the H/Z-89 Computer.



Software for the H/Z-100 Computer.



INVENTORY CONTROL

Improves customer service and response time: Provides up-to-date information, better control of merchandise on hand. Allows more efficient operation, reduced inventory investment by each department. Keeps information on each item – including part number, description, vendor/reorder/activity data.



SALES INVOICING

Helps you invoice quicker – so you're paid sooner: Checks credit limits and stock levels before printing invoice. Accommodates 36 different sales accounts; prints invoices, updates customer and inventory files; mixes taxable and non-taxable items on an invoice; provides for credit sales; and maintains files for complete sales tax reporting.

Interacts with General Ledger System on page 20: Sales Invoicing requires use of the Accounts Receivable (p. 20) and Inventory Control (above) programs.

- HRS-837-6 (Requires Sublicense Grant, p. 33), on soft-sectored, double-density, double-sided 5.25-inch floppy disk, Shpg. wt. 3 lbs. . . . 295.00





PROPERTY MANAGEMENT SYSTEM

Manage your rental properties more effectively: The versatile Peachtree Property Management software system helps owners of rental units keep track of properties, leases and renters. It can even handle multiple leases per renter (such as apartment, garage and maintenance agreements).

Generates several action reports: These reports keep owners up to date on pending move-ins, upcoming move-outs and lease expirations.

Maintains financial data for rental properties:
The Property Management software system keeps accounts receivable files – as well as printing invoices and statements for renters. The system provides instant, updated reports showing which of your renters have paid up to date – and which have not.

Bring your property management up-to-date, using this powerful Peachtree software system.

- HRS-847-7 (Requires Sublicense Grant on page 33), on soft-sectored 8-inch floppy disk for H/Z-47 Disk System, Shpg. wt. 4 lbs. 995.00

CONDOR® DBMS

The Condor Series 20 Relational Data Base Management System lets you design your own custom data base program, even if you have little or no programming experience.

Create affordable, productive data bases quickly: Condor DBMS is one of the first Data Base Management programming systems written for even the first-time computer user. It can bring incredible speed to, as well as greatly simplify, your information processing for: Inventory control, accounting functions, sales forecasting, personnel reporting and many other business applications.

Relational data base concept: A data base consists of many information files that work with one another to organize data according to your needs. Once the data is organized, simple English-type commands (such as "Sort Rollidex by last name") allow unrelated information to become dynamically related. Condor features a relational structure that eliminates the need for a professional computer programmer to develop most data bases – it's much easier to use than a network or hierarchial system.

Features exceptional speed: Applications created with the use of Condor DBMS are written in Assembly Language – the language your computer understands best, so no time is wasted interpreting when you run the program – and is designed for implementation on CP/M-based computer systems with 64K of Random Access Memory. With the Condor Relational DBMS system, you have an impressive data base capacity:

- Up to 32,167 records per file.
- Up to 1,023 bytes in a record.
- Up to 127 fields per record.
- Up to 127 characters per field.

Other Condor DBMS features: Condor comes with a well-documented users' manual and complete, menu-drive HELP aids which make the system easier to use. It's transaction processing-oriented – posting transactions to a master data base. An audit trail





audit trail (result set) is generated with each posting, which may be used as a record of the master before posting.

Condor's self-contained, English-like data language eliminates the need for a host computer language, such as BASIC.

Complete batch operation, including conditional execution, repetition, user-defined messages and restart capability, speeds operation.

The FORMAT and DEFINE command permits creation of a new data base in minutes, while FORMAT also provides powerful screen editing capabilities for both data base development and report writing. The COMPUTE command permits the inclusion of equations up to 32 terms long.

Condor's SELECT command allows you to select records by specifying up to 32 logical conditions including the AND, OR and NOT Boolean operations. The JOIN command relates two data bases by match-

ing specified data item values. **Additional versatility:** Condor DBMS lets you develop a menu-driven applications system without additional software and programming. It even has

This means you can design your custom applications program in which the DBMS programs operate "transparently"— that is, you are no longer conscious of the steps they cycle through automatically.

extensive error checking and error message facilities.

Hardware, software needs: H/Z-89 or Z-90 with 64K. RAM, two high-capacity disk drives, CP/M-80, printer.

- HCD-8937-1, on soft-sectored, double-density, double-sided 5.25" floppy disk for CP/M-80 (requires H/Z-37 Floppy Disk System), Shpg. wt. 4 lbs.
 650.00
- HCD-8947-1, on soft-sectored 8" disk for CP/M-80, Shpg. wt. 4 lbs. 650.00

For an H/Z-100 version of Condor DBMS, as well as the new Condor File Manager for the H/Z-100, see page 7.

Condor is a registered trademark of, and is marketed pursuant to a license from Condor Computer Corp.



ORDER TOLL-FREE! 800-253-7057

MULTIPLAN

The powerful 16-bit electronic spreadsheet, now in an 8-bit version for the H/Z-89 and Z-90.

Tools of the successful decision-maker -Microsoft Multiplan and a Heath/Zenith computer: Answer those tough "what if?" questions, as well as the "now what?" questions you ask when the unexpected happens. Form spreadsheets up to 63 columns wide, 255 rows deep. A two-volume manual, "Help" key make it easy to learn.

Perfect for corporate and departmental budgets: Displays proposed responses - you decide what to do. Make several spreadsheets dependent on a master spreadsheet, or exchange information with other applications programs.

Some uses for MultiPlan:

- Personal or business budget preparation
- Income tax calculations
 Costing model
- Sales reports
- Sales summaries
- Expense accounts
- Inventory pricing
- Cost estimating
- Compare budgeted and
 Corporate energy program actual expenditures

- Inventory control
- Securities journal
- Internal forecasting
- Cash flow projections
- Balance sheet
- Financial analysis
- Profitability comparisons
- Other applications

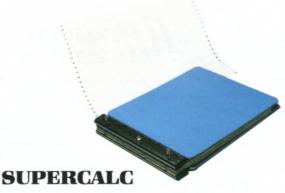
Min. hardware, software reqmts: An H/Z-89 or Z-90 with 64K RAM, two disk drives, CP/M-80. If printouts are desired, a printer is also needed.

HMS-837-7, on soft-sectored 5.25" floppy disk for CP/M-80, Shpg. wt. 6 lbs. 250.00

An H/Z-100 color version of Multiplan is on page 6.

Multiplan is a trademark of Microsoft Corp.





One of the most versatile eight-bit electronic spreadsheets, SuperCalc makes complex "what if?" and "now what?" calculations fast and easy.

Helps you make better use of your time and energy: Accountants, planners, business owners and engineers use SuperCalc to answer day-to-day "what if?" and "now what?" questions. They just enter new figures, and SuperCalc provides the answers.

Keep ahead of fast-changing business conditions: Manipulate data quickly – set up exactly what's necessary for in-depth analysis and modeling. Examine and alter numbers and test with the 63 columns by 254 row SuperCalc spreadsheet.

Conditional calculations now possible: IE AND. or NOT statements allow you to see all possible alternatives fast, with SuperCalc doing all the calculations in seconds instead of the hours it would take manually.

Formulas are always at your fingertips: You never have to operate in the blind. And you can protect unchanging factors (margins, multipliers, etc.) that are "givens" within your business or industry.

You get a super-wide 127-character column to work with: This eliminates hard-to-follow "wraparound" formatting. Simply use the cursor control arrows to scroll horizontally to view on-screen.

SuperCalc's unique "Help" function shows you what to do next at each stage: Just hit the red function key and you get a list of alternatives.

Replace your pencils, paper and calculator: SuperCalc needs an H/Z-89 or Z-90 with 48K RAM, one disk drive, CP/M-80. For printouts, a printer is also needed.

- HSC-817-1, on hard-sectored 5.25" floppy disk for CP/M-80, Shpg. wt. 2 lbs. 250.00
- **HSC-837-1**, on soft-sectored 5.25" floppy disk for CP/M-80, Shpg. wt. 2 lbs. 250.00
- HSC-847-1, on soft-sectored 8" floppy disk for

A colorful H/Z-100 version of SuperCalc is on page 6.

Supercalc is a trademark of Sorcim Corp.

REMOTE IBM TERMINAL EMULATOR SOFTWARE

Permits your H/Z-89 or Z-90 to emulate various IBM data communications terminals

IBM 3780, 2780, 3741 and 2770 Emulator: Use in remote job entry, down-line loading and distributed processing network applications. Uses std. binary synchronous protocol. Needs H/Z-89 with 48K RAM and Z-89-11 I/O Board, one disk drive, CP/M-80.

- HWI-8917-1, on hard-sectored 5.25-inch floppy disk, Shpg. wt. 4 lbs. 895.00

SAVE \$50 - buy with Z-89-11! \$1045.00 separately.

- HWI-8917-2, hard-sectored 5.25" RBTE software and Z-89-11, 12 lbs ONLY 995.00
- HWI-8947-2, soft-sectored 8" RBTE software and Z-89-11, 12 lbs. ONLY 995.00

IBM 3270 Emulator can effect substantial savings: Allows H/Z-89 or Z-90 to work as popular IBM 3270 display station. Needs H/Z-89, Z-90 with 64K bytes of RAM, Z-89-11, one drive, CP/M-80, printer.

- HPO-8917-1, on hard-sectored 5.25-inch floppy disk, Shpg. wt. 2 lbs. 650.00

SAVE \$51-buy with Z-89-11! \$800.00 separately.

- HPO-8917-2, hard-sectored 5.25" 3270 software and Z-89-11, 3 lbs. ONLY 749.00
- HPO-8937-2, soft-sectored 5.25" 3270 software and Z-89-11, 3 lbs. ONLY 749.00





COMPUTERIZED PHONE SYSTEM SOFTWARE

Puts a world of information on your computer system's video screen, inexpensively
Make your computer a window to a world of
information: Information to help you plan your
business, forecast, write more meaningful and accurate reports, complete much of your household
paperwork—or play games.

Data communications interfacing utility program: CPS permits the transfer of data files between your computer and CompuServe or the Source. It also permits access to other non parity-sensitive computer systems, via modem. Store common commands (phone numbers, IDs and passwords) on disk, transmit at the press of a single button.

Both have large time-sharing mainframe computers: CompuServe and the Source provide features not available in a stand-alone microcomputer system. Access data files and programs in the CompuServe and Source libraries, send and receive electronic mail, get the latest news-access hundreds of information sources from your home!

Easy to use on most time-sharing systems: CPS features user-defined keys for auto log-in, mail check and more. Full error checking and an on-screen elapsed time clock are provided.

Minimum hardware and software requirements: An H/Z-89 or Z-90 with 48K RAM, one disk drive, a modem and HDOS and CP/M-80 (as listed below).



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WORD PROCESSING/MAILING

Word processing makes creation of documents faster and easier, in your home or at the office. Heath/Zenith offers two word processors—and an automatic proofreader for Magic Wand.



MAGIC SPELL AUTOMATIC PROOFREADER

Has distinct advantages over similar systems: With a typical Heath/Zenith computer and double-density floppy disk drives, Magic Spell can check 20 pages of text in under a minute. Use its standard 20,000-word English dictionary—or create specialized dictionaries of your own.

Easy to learn: Three self-instructional lessons, included with Magic Spell, help you utilize this software package's maximum capabilities. The software also has special "Help" displays, which provide quick answers to your questions.

Requires: H/Z-89 or Z-90 Computer with 48K bytes of RAM, one disk drive, CP/M-80 Operating System, Magic Wand Word Processor and a printer (letter-quality WH-54, page 13, recommended).



WORDSTAR WORD PROCESSOR

Best suited for letter-writing applications: WordStar Version 2.26 supports full on-screen text formatting (with automatic margination, justification and centering available on command). Helpful hyphenation speeds editing—lets you choose the hyphenation point.

Advanced capabilities supported: Supports automatic page numbering, many print enhancements, 1/48" line spacing, 1/120" character pitch and several other operator-chosen options, on printers with appropriate capabilities. Also supports print spooling on systems with 64K RAM.

Four prompting levels eliminate the need to refer to a manual. Needs H/Z-89 or Z-90 with 48K RAM or H/Z-100, two disk drives, CP/M,® printer (WH-54 recommended).

- HMP-817-2, on hard-sectored 5.25" disk for CP/M-80, Shpg. wt. 2 lbs.
 395.00
- •• HMP-847-2, SS 8" disk for CP/M, 5 lbs. 395.00 A version of WordStar for the H/Z-100 is on pages 6-7.



MAILMERGE™ 2.26 FOR WORDSTAR

Create personalized form letters—or store and print a mailing label list: Combine a names/addresses file with a letter text file, inserting data where you want it. You can even produce both form letters and mailing lists from the same file.

Needs: H/Z-89 with 48K RAM or H/Z-100, two disk drives, CP/M, WordStar, printer (WH-54 recommended).

- •• HMP-847-3, SS 8" disk for CP/M, 4 lbs. 135.00

See pages 6-7 for an H/Z-100 version of MailMerge.



MAGIC WAND WORD PROCESSOR

Now even more powerful and versatile: When you team Magic Wand Word Processing Software with the Magic Spell Automatic Proofreader, you get the ultimate in word processing convenience and accuracy.

Recommended for documentation, mailing list uses: Has sample learning exercises.

EDIT mode features insertion, deletion, search/replace, block moves and block copying, and the ability to include any pure ASCII file into your text.

PRINT mode has spooling, direct/imbedded commands, enhancements on capable printers, hyphenation, mail list merging. Needs H/Z-89 or Z-90 w/48K RAM or H/Z-100, one disk drive, CP/M, printer (WH-54 recommended).

- •• HRS-847-9, SS 8" disk for CP/M, 3 lbs. 295.00

CP/M is a registered trademark of Digital Research Corp. Word-Star, Mail Merge are trademarks of Micropro International Corp.

OPERATING SYSTEM SOFTWARE AND PROGRAMMING LANGUAGES

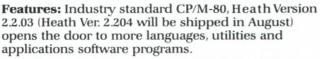
Because there's never a single answer, Heath/Zenith offers a choice of operating systems and programming languages to fit your specific needs.

Both industry standard and Heath/Zenith-standard operating systems are available, along with programming language interpreters and compilers designed for home, hobby, scientific/mathematical and business-oriented computer users.



Industry standard CP/M®-80 8-Bit Operating System

Used by over 200,000 microcomputer owners worldwide, CP/M-80 provides a common hardware interface – with uncommon flexibility.



File and disk management: CP/M-80 has fully dynamic named-file allocation, program and peripheral output control and random or sequential data access. Distinct programs can be stored in both source and machine-executable form.

The Basic Input/Output System (BIOS) provides operations to access disk drives and interface most standard peripherals. BDOS minimizes head movement and wear across the disk when accessing a file. Console Command Processor (CCP) has five commands which control input and output of programs.

Utilities: Has two-pass assembler, general-purpose editor, advanced 8080 debugger, file dump and copy between devices, system generation/relocation, more.

Hardware/software requirements: An H/Z-89 or Z-90 with 48K RAM and one disk drive (two drives are highly recommended).

Related educational course: EC-1120, page 34.

- HOS-8947-2, on soft-sectored 8" floppy disk for H/Z-47 Disk System, 5 lbs. 150.00

CP/M is a registered trademark of Digital Research Corp.

HDOS has many functions of larger operating systems

Designed for efficient use of memory and disk space, the sophisticated Heath Disk Operating System (HDOS) controls your H/Z-89 or Z-90 computer

Provides complete operating environment:Sophisticated HDOS Ver. 2.0 program library allows program writing, editing and storage – with assembly and checkout facilities.

Built-in languages: Extended Benton Harbor BASIC (Ver. 6.0) uses simple English statements, math equations to perform operations. ASM 8080 Assembly Language assembles source programs into listings and object programs.

Built-in utilities: 17 commands manipulate files, select device drivers, debug and run programs, edit text and more.

Hardware and software requirements: H/Z-89 w/48K RAM, one disk drive. Two drives are highly recommended, and may be required to use some other software products with HDOS.

- HOS-817-1, hard-sectored 5.25" disk, 9 lbs. 150.00
- **HOS-847-1**, soft-sectored 8" disk, 5 lbs. . . . **150.00**

UCSD P-System with Pascal, Ver. IV, responds to changing needs

Complete program development, execution environment: Has Pascal compiler, universal P-code interpreter, screen- and character-oriented program/text editors, macro-assembler and library of utilities. Support available from Softech Microsystems, San Diego, CA. Needs H/Z-89 or Z-90 with 48K RAM (64K recommended), two soft-sectored disk drives.

- HOS-8947-3, soft-sectored 8" disk, 7 lbs. . . 495.00



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Microsoft BASIC Interpreter

This enhanced BASIC is one of the most versatile generalpurpose programming languages available.



Scores of utility, applications programs available: Extensive program editing facilities, double-precision math. Needs H/Z-89 or Z-90 with 48K RAM, one disk drive, HDOS or CP/M-80 (see below) and the Sublicense Grant (pg. 33).

Related educational course: EC-1110 on page 34.

- H-8-21, Ver. 4.82 on hard-sectored 5.25" disk for HDOS, Shpg. wt. 4 lbs. 150.00
- **HMS-817-1,** Ver. 5.21 on hard-sectored 5.25" disk for CP/M-80, Shpg. wt. 5 lbs. 175.00
- HMS-837-1, Ver. 5.21 on soft-sectored 5.25" disk for CP/M-80, Shpg. wt. 4 lbs. 175.00
- **HMS-847-1,** Ver. 5.21 on soft-sectored 5.25" disk for CP/M-80, Shpg. wt. 5 lbs. 175.00

Microsoft BASIC Compiler

Eliminate time-consuming interpretation: Compile your programs. Includes Microsoft BASIC library, MACRO-80 Assembler, LINK-80 Editor, CREF Cross-Reference Generator and LIB-80 Library Manager. Ver. 5.23 needs H/Z-89 or Z-90 with 48K RAM, two disk drives. HDOS or CP/M-80 (see below) and Sublicense Grant on page 33.

- HMS-817-41, HS 5.25" disk for HDOS, 5 lbs. 250.00
- HMS-837-41, SS 5.25" disk for HDOS, 4 lbs. 250.00
- HMS-847-41, SS 8" disk for HDOS, 5 lbs. 250.00
- HMS-817-4, HS 5.25" disk for CP/M-80, 5 lbs. **250.00**
- HMS-837-4, SS 5.25" disk for CP/M-80, 4 lbs. **250.00**
- **HMS-847-4,** SS 8" disk for CP/M-80, 5 lbs.

Flexible C BASIC Language

Includes pseudo-code compiler, run-time interpreter: Statements and commands available include string constants, integers and real numbers, identifiers, variables and assignment statements. Many extended features include the IF ... THEN ... ELSE and WHILE constructs, integer variables, multiple line functions, chaining with common variables, a crossreference listing generator and more. Extremely versatile disk file accessing facilities. Requires H/Z-89 or Z-90 with 48K RAM, or H/Z-100, one disk drive and CP/M.

- **HCM-817-1**, Ver. 2.0 on hard-sectored 5.25" disk for CP/M-80, Shpg. wt. 2 lbs. 115.00
- **OOD HCM-837-1,** Ver. 2.0 on soft-sectored 5.25" disk
- •• HCM-847-1, Ver. 2.0 on soft-sectored 8" disk for

Microsoft **FORTRAN** Compiler for science, engineering

Includes all features of ANSI FORTRAN X3.9-1966, except COMPLEX data type.

Requires an H/Z-89, or Z-90 Computer System with 48K bytes of RAM, two disk drives, the HDOS or CP/M-80 Operating System (as listed below), and the Sublicense Grant on page 33.

Related educational course: EC-1101, p. 35.

Microsoft FORTRAN Programming System, Version 3.35:

- H-8-20, on HS 5.25" disk for HDOS, 4 lbs. 175.00 Microsoft FORTRAN-80 Programming System, Version 3.4:
 - HMS-817-2, HS 5.25" disk for CP/M-80, 5 lbs. 195.00
 - HMS-837-2, SS 5.25" disk for CP/M-80, 4 lbs. 195.00
 - **HMS-847-2.** SS 8" disk for CP/M-80, 5 lbs.



Powerful, businessoriented Microsoft **COBOL Compiler**

Ideal for processing large disk files and data bases: Needs H/Z-89 or Z-90 with 48K RAM, two disk drives, HDOS or CP/M-80 and the Sublicense Grant on p. 33, 64K RAM and H/Z-37 recommended for uses involving large disk files.

Related educational course: EC-1105, page 35.

- HMS-817-31, HS 5.25" disk for HDOS, 4 lbs. 395.00
- HMS-837-31, SS 5.25" disk for HDOS, 4 lbs. 395.00
- HMS-847-31, SS 8" disk for HDOS, 4 lbs. 395.00
- HMS-817-3, HS 5.25" disk for CP/M-80, 5 lbs. 395.00
- HMS-837-3, SS 5.25" disk for CP/M-80, 4 lbs. 395.00 • **HMS-847-3,** SS 8" disk for CP/M-80, 5 lbs.

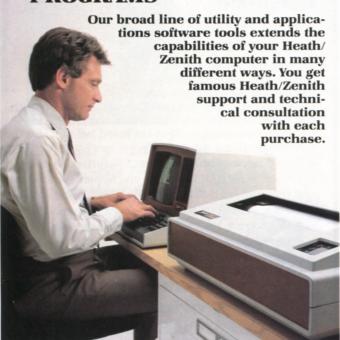
MACRO-80 Assembly Language

Has many "big computer" assembler features: Needs H/Z-89 or Z-90 with 48K RAM, or H/Z-100, one disk drive (two drives recommended), HDOS or CP/M Operating System and the Sublicense Grant on page 33. Related educational course: EC-1108, page 35.

- HMS-817-51, HS 5.25" disk for HDOS, 2 lbs. 65.00
- HMS-837-51, SS 5.25" disk for HDOS, 4 lbs. 65.00
- HMS-847-51, SS 8" disk for HDOS, 4 lbs.
- HMS-817-52, HS 5.25" disk for CP/M-80, 2 lbs. 65.00
- **HMS-837-52,** SS 5.25" disk for CP/M, 3 lbs. 65.00 65.00
- •• HMS-847-52, SS 8" disk for CP/M, 4 lbs.

65.00

UTILITY/APPLICATIONS PROGRAMS



MICROSTAT: Analyzes statistics with maximum accuracy and speed

"Human-engineered" to be flexible and fail-safe: Microstat Version 2.3 performs common tests on statistical data files. Features unique file orientation capabilities. Designed for fairly large data sets. Requires H/Z-89 or Z-90 with 48K RAM or H/Z-100, two high-capacity disk drives and CP/M.

PEARL LEVEL 3: Generates programs to solve your applications problems

You define the application, PEARL generates the solution: Greatly reduces program-writing time. Interactive, menu-driven system is designed for most computer owners. Requires H/Z-89 with 64K bytes of RAM, two high-capacity disk drives (H/Z-37 or H/Z-47), or H/Z-100, CP/M® and C BASIC programming language.

WORDMASTER[™] CP/M-compatible video text editor

For program development and more: WordMaster Ver. 1.07 is only 20% as large as WordStar (without printer interface or formatting) – and much faster.

Features automatic floppy disk I/O (for files too large to edit in RAM), a scratchpad memory to move text and store command strings, the ability to write/read text to/from other files, nestable loops, pattern matching abilities and macro facilities.

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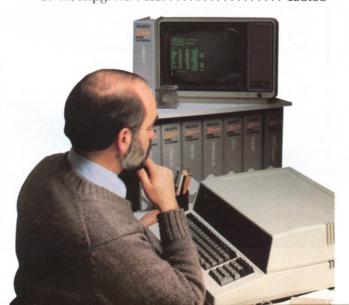


Easily handles large sorting tasks: Sorts and merges 32 input files (up to 512 KB) into a single file – at 560 records per minute. Accepts nearly any kind of record – data can be justified or include floating decimals, exponential notation, or upper and lower case letters. Can use data in several standard formats –including binary, EBCDIC, BCD, ASCII and others. Specify up to 32 different sorting criteria – such as between, not between, equal to, less than or greater than, and others.

Three output options: Keys-only output permits building a file index – to print a summary or form a new data base; record number output allows the building of multiple indices into a file – so another program can retrieve the records, using direct access by relative record number; pointer output provides another method of building indices, so another program can retrieve the records from the original file.

Compatibility: Works with BASIC, Assembly, Microsoft FORTRAN and Microsoft COBOL programs—as well as with text editors. Requires H/Z-89 with 48K bytes of RAM or H/Z-100, one disk drive and CP/M Operating System.

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This system
keeps your books
up-to-date easily
and inexpensively –
facilitating entry,
maintenance, reporting
and analysis of
accounting data.



Convenient operands make this one of the easiest-touse, most flexible systems of its type anywhere.

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Software compatibility: General Ledger II can be used with the SOFTSTUFF Small Business Inventory Package and Mailpro Mailing List Software.

Minimum hardware and software requirements: General Ledger II requires an H/Z-89 or Z-90 system with 48K bytes of RAM, two disk drives, the HDOS Operating System (see page 26) and the Microsoft BASIC Language Interpreter (see page 27).

Small Business Inventory Package:

Designed to facilitate a complete analysis of any small business' inventory.

Features: Listing accepts
alphanumeric part numbers
up to 23 characters in length, as well
as part descriptions up to 18 characters in length.
The system can provide up to 12 items of information
on each part – including reorder level, usage history
by month and year-to-date, and much more.

Software compatibility: Use with General Ledger II and Mailpro Mailing List Software Packages.

Minimum hardware and software requirements: The Small Business Inventory Package requires and H/Z-89 or Z-90 computer system with 48K bytes of RAM or a Z-100 series computer; one disk drive; the HDOS, CP/M-80 or CP/M(OS-53-2) Operating Systems (as listed below, see page 26); and the Microsoft BASIC Language Interpreter (see page 27).

- SFS-9105, on soft-sectored 5.25" disk for CP/M-80/CP/M (OS-53-2), Postpaid 90.00

PIE Full-Screen Text Editor

The easy, effective way to create a program or text file, or to incorporate changes or improvements into existing program or text files.

Features: The PIE Editor uses the H/Z-89 CRT screen as a window into a file. Alterations

can be typed anywhere on the screen. And the H/Z-89's special user-defined function keys are available to perform character, word and line insertions or deletions.

Enhancements: The system also features string search capability, the ability to move or copy single or multiple lines, and the ability to scroll text.

Minimum hardware and software requirements: The SOFTSTUFF PIE Full-Screen Text Editor requires an H/Z-89 All-In-One Computer System with 48K bytes of Random Access Memory (RAM), at least one floppy disk drive, and either the Heath Disk Operating System (HDOS) or the Heath/Zenith CP/M-80 Disk Operating System (as listed below).

 SF-9200, on hard-sectored 5.25" floppy disk for HDOS or CP/M-80, Postpaid 50.00



UTILITY PROGRAMS

SOFTSTUFF Text Formatter:

Use to format text generated by the PIE Full-Screen Text Editor (page 30), or many other text editors: Performs errorless fill and justification (straight right margin) functions on editorprepared text. Requires an H/Z-89 computer system with 48K RAM, one disk drive and HDOS or CP/M-80 (as listed below).

- SF-9001, on hard-sectored 5.25" disk for HDOS, Postpaid **55.00**
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Roots-89 Ancestral Genealogy Software:

With Roots-89 Ancestral Genealogy Software, you can use your H/Z-89 or Z-90 computer system to help track your roots. With adequate data available, the system can compute relationships among family members, and can also show anniversaries.

Includes extensive 100-page genealogy course: Learn how to better track your roots - and how to use Roots-89 to your best advantage while looking for ancestors.

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- SF-9008, on hard-sectored 5.25" disk for HDOS, Postpaid 125.00
- SF-9108, on hard-sectored 5.25" disk for CP/M-80, Postpaid 125.00

HDOS-CP/M-80 File Converter:

Transfer HDOS files to CP/M-80 disks - and vice versa. Now you can use ASCII data generated by HDOS software in CP/M programs, or use most CP/M data in HDOS programs. Requires an H/Z-89 computer system with 48K bytes of RAM, two hard-sectored 5.25-inch disk drives, HDOS and CP/M-80 Operating Systems.

SF-8512, on hard-sectored 5.25" disk for HDOS and CP/M-80, Postpaid 30.00



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U.S. Presidents' Game: Learn about the men who have led the U.S. Requires an H/Z-89 with 48K bytes of RAM and one disk drive.



SF-9020, on hard-sectored, bootable 5.25" HDOS disk, Postpaid

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Extensive vocabular library helps students learn most common English words. Menu-driven program is easy to set up and easy to use. The SOFTSTUFF Vocabulary Builder requires an H/Z-89 computer system with 48K bytes of Random Access Memory (RAM) and one hard-sectored 5.25-inch disk drive.

SF-9019, on hard-sectored, bootable 5.25" HDOS

Typing Tutor:

No more hunt-and-peck typing - this educational program helps you learn faster, more efficient touch typing. Uses the H/Z-89's typewriter-style keyboard for immediate hands-on learning. The SOFTSTUFF Typing Tutor requires an H/Z-89 computer system with 48K bytes of Random Access Memory (RAM) and one hard-sectored 5.25-inch disk drive.

• SF-9018, on hard-sectored, bootable 5.25" HDOS

Periodic Table:

Helps high school and college chemistry students. Teaches the 103 basic chemical elements. Two modes are available - you can either study each element in detail, or take a quiz. The SOFTSTUFF Periodic Table Educational Program requires an H/Z-89 computer system with 48K bytes of Random Access Memory (RAM) and one hard-sectored disk 5.25-inch disk drive.

SF-9021, on hard-sectored, bootable 5.25" HDOS

Mychess Computer Chess Game:

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- SF-9010, on hard-sectored 5.25" disk for HDOS,
- SF-9110, on hard-sectored 5.25" disk for



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enhancements, new programs and other ideas. A complete REMark library with all back issues, is available from HUG.

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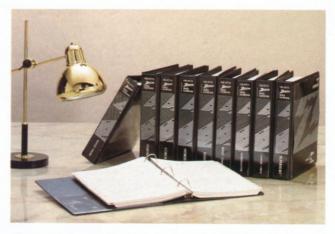
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