# SoftBox adds CP/M capability to Commodore micros

*By Ned Heite*

CP/M is an artifact from the early days of microcomputing; it became a *de facto* operating-system standard by default. While newer, more advanced operating systems are on the market, CP/M is the industry's 300-pound gorilla. Love it or hate it, it sleeps wherever it wants. With near-simultaneous introduction of two add-on units for Commodore machines, the last major non-CP/M microcomputer now accepts this "standard" software environment.

SoftBox, from Small Systems Engineering (SSE), is a 60K, Z80 microcomputer that uses a Commodore PET or CBM as a terminal and communicates with Commodore peripherals on the IEEE-488 bus. It runs CP/M 2.2. On 8050 drives, it can store 496K bytes per diskette, with 64 directory entries.

Although SoftBox allows you to run CP/M on existing Commodore machines, you won't need it for the recently announced P, B and BX models. These have Z80 coprocessors and can run both Commodore BASIC 4.0 and CP/M without help. Whether the different implementations of CP/M will be compatible remains to be seen.

**FEATURES:** SoftBox is an external unit, in a metal cabinet about the size of a modem, color-matched to Commodore machines.

A standard PET-IEEE cable connects the box to the bus. There is also a serial port for RS-232 devices and a socket for Corvus hard disks. The only control on the box is the on-off switch.

To use CP/M, SoftBox must capture and reconfigure the Commodore computer, and the task couldn't be simpler. You turn on the units and load a CP/M diskette with a standard Commodore shifted run/stop quick-load command. When the cursor returns, the Commodore computer is a terminal, and SoftBox is in control. Now you can read the CP/M directory from the same diskette.

CP/M has six built-in commands. Four have direct Commodore equivalents:

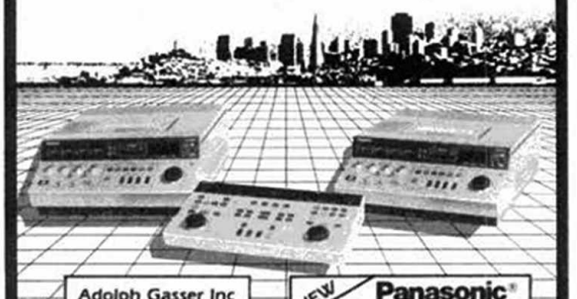
| | |
|---|---|
| DIR | Directory |
| SAVE | Print# or Dsave |
| REN | Rename |
| ERA | Scratch |

For two CP/M commands, there is no PET syntax equivalent: USER makes certain disk files available to different "users" of the system; TYPE displays an ASCII text file on the screen—TYPE is something like WordPro's "recall" or the PET "list."

Separate command files on the CP/M disk perform tasks, some of

*See SoftBox, page 60*


The source for the latest in video equipment-



Adolph Gasser Inc has become a leader in the video industry by delivering service with the sale and by being aware of new technological developments. Let our professional sales staff give you a "hands-on" demonstration of these products and more.

NEW Panasonic® above: NV-8500 Editing System. The first professional ½" VHS system.

WV-777 Video Camera Three tube, ENG/EFP prism optics design.

Adolph Gasser
(415) 495-3852 181 Second St/San Francisco

DIGITAL MARKETING

THE FIELD COMPANION™

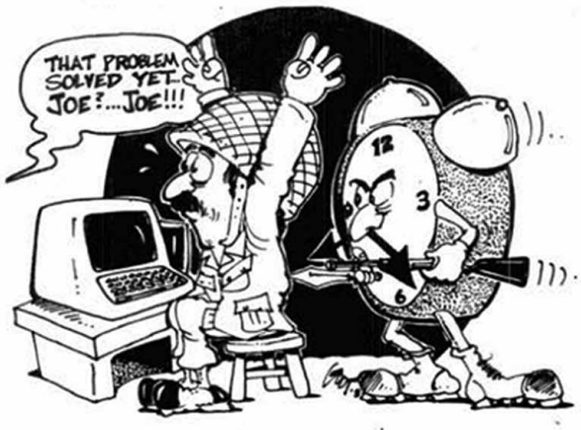
Created for the needs of the businessman, sales executive or service agent. Provides expense accounting with itemized and summary journals for budgeting and tax purposes. Maintains memos and appointments. Customer list keeps relevant information on accounts, including shipping and billing addresses, year-to-date sales, and person to contact for follow-up. Professional time log allows user to keep track of time spent for or with clients. Invoice feature plucks required data from customer and products files, and all invoice copies. The Field Companion reports may be output to printer or sent via modem to the home office. Data compacting and selective purging permitted. Full password protection. Can interface with any CP/M word processor. Requires 56K RAM and CP/M or CP/M-86. Call or write for available formats. The price is $295. (plus $7. shipping and handling.)

Trademarks: The Field Companion — Lorand Andahazy; CP/M and CP/M-86 — Digital Research.

SOFTWARE SOFTWARE DIGITAL MARKETING DIGITAL MARKETING™

DIGITAL MARKETING CORPORATION

267D CHERRY LANE • WALNUT CREEK • CALIFORNIA • 94596
(415) 938-288C • Telex 17-1852 (DIGMKTG WNCK)




WE KNOW YOUR TIME'S VALUABLE

*WE'VE TAKEN THE HEADACHES OUT OF FILE COMPARISON FOR YOU.*

"COMPARE". *CREATE FILE OF THE DIFFERENCES AND GO ON TO MORE IMPORTANT THINGS— FOR ONLY...* $95.00

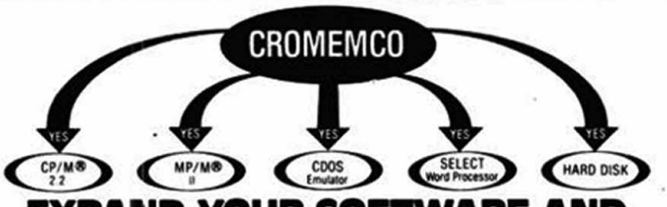
SOLUTION TECHNOLOGY, INC.

Suite 218 • 1499 Palmetto Park Rd. • Boca Raton, FL 33432 • (305) 368-6228

*— Check out these features that you need —*

• CPM/2.2 • PROFESSIONALLY DESIGNED • COMPARES ANY TWO SOURCE FILES • COMPATIBLE WITH MOST CPM WORD PROCESSORS AND EDITORS • CAN GENERATE NEW FILES WITH CHANGE BARS FOR WORD PROCESSED DOCUMENTS • EXTENSIVE USER SELECTABLE PROCESSING OPTIONS • DIFFERENCES OUTPUT TO FILE OR LST: • NO INPUT FILE OR DIFFERENCES LENGTH RESTRICTIONS • OUR UNIQUE SIDE BY SIDE OR STANDARD VERTICAL DIFFERENCE LISTING MODES •

*— We told you there was no comparison — Order your copy now —*




EXPAND YOUR SOFTWARE AND HARDWARE POSSIBILITIES FOR CROMEMCO COMPUTERS

CP/M,® MP/M® WITH CDOS EMULATOR, HARD DISKS SELECT WORD PROCESSOR AND 8" DISK DRIVES

- ENABLES YOU TO RUN YOUR CHOICE OF OVER 2,000 CP/M,® MP/M® COMPATIBLE SOFTWARE PACKAGES ON YOUR CROMEMCO
- USE MP/M® FOR MULTIUSER EXTENSION OF CP/M® OR CDOS OPERATING SYSTEM
- RUN CROMEMCO SOFTWARE IN A CP/M,® MP/M® ENVIRONMENT WITH OUR CDOS EMULATOR
- SAVE THOUSANDS OF DOLLARS ON HARD DISK OR 8" FLOPPY DISK DRIVES

SOFTWARE PRICES

| | |
|---|---|
| **FLOPPY DISK SOFTWARE** (8" or 5¼") | |
| SUPER BIOS CP/M® 2.2 with fast copy program | 275.00 |
| SUPER BIOS CP/M® with CDOS EMULATOR | 400.00 |
| SUPER XIOS MP/M® II | 750.00 |
| SUPER XIOS MP/M® with CDOS EMULATOR | 875.00 |
| **HARD DISK SOFTWARE** (FOR MORROW DESIGNS, OR KONAN CONTROLLER) | |
| SUPER BIOS CP/M® with fast copy program | 400.00 |
| SUPER BIOS CP/M® with CDOS EMULATOR | 525.00 |
| SUPER XIOS MP/M® II | 900.00 |
| XUPER XIOS MP/M® with CDOS EMULATOR | 1,025.00 |
| SELECT WORD PROCESSOR with SUPERSPELL, TEACH AND MERGE PRING . . . WITH PURCHASE OF SUPER BIOS | 595.00 / 395.00 |

*FREE SUPER BIOS CP/M® 2.2 W/PURCHASE OF MORROW DESIGNS HARDWARE

HARDWARE PRICES

| | |
|---|---|
| **FLOPPY DISK SYSTEMS** (P.S., cables, cabinet) | |
| MORROW DESIGNS SHUGART 8" DISK DRIVE 500K | 815.00 |
| MORROW DESIGNS two SHUGART 8" DRIVES 1M | 1,535.00 |
| **HARD DISK SYSTEMS** (controller card, P.S., cables, cabinet) | |
| MORROW DESITN 5 MEGABYTE HARD DISK | 2,245.00 |
| MORROW DESIGN 10 MEGABYTE HARD DISK | 3,995.00 |
| MORROW DESIGN 20 MEGABYTE HARD DISK | 4,295.00 |
| MORROW DESIGN 26 MEGABYTE HARD DISK | 3,995.00 |

® REGISTERED TRADEMARK OF DIGITAL RESEARCH

MICAH

919 SIR FRANCIS DRAKE BLVD., KENTFIELD, CA 94904
(415) 456-7262

CP/M is a trademark of Digital Research

POWER

erased by mistake ?

reclaims programs and more

ONLY $149
50 COMMAND program puts YOU in control of CP/M.*

COMPUTING!
2519A Greenwich St San Francisco, CA 94123

## SoftBox

*continued from preceding page*

which are not available on PET:

- STAT: Displays directory, space remaining on the disk and logical-device assignments.
- PIP: Copies files; this command works like the PET "copy" routine, but it is a separate program that you must call from disk.
- ED: Text editor program.
- ASM: 8080 assembler program.
- LOAD: Hex format loader
- DUMP: Displays a file in hexadecimal format.
- DDT: Debugging program for the assembler.
- SUBMIT: Allows users to chain commands together for execution.
- FORMAT: Like the "header" or "new" disk commands in the PET, it formats a new disk.
- NEWSYS: Allows users to change and copy the CP/M system to a new disk that will receive an application program.
- MEMTEST: This command is much like the PET disk-utility memory test, but it checks the SoftBox memory.
- SET: Shift-locks the screen to uppercase or lowercase, or to graphics mode—also can assign device number on the IEEE-488 bus.
- XFER: Transfers files written for PET systems to be used on CP/M.
- BACKUP: Similiar to PET backup.
- TIME: Reads or sets the PET clock.
- COLD: Returns the PET to cold start.
- READ: Transfers files via the SoftBox RS-232 port.

Where PET and CP/M commands can be compared directly, PET syntax is simpler and faster. CP/M has a long backlog of available software, however.

***Features of Unit Tested***

- 60K RAM
- CBM disk-system compatibility
- Corvus hard-disk compatibility
- CP/M

Price: ***$895***

***Small Systems Engineering Corporation***
222B View Street
Mountain View, CA 94041

**This remarkable book shows you...**

- **How to professionally prepare news releases and articles so they will be accepted by the media.**
- **How to develop your mailing lists.**
- **How to work with the news media.**
- **How to measure the effectiveness of your publicity**
- **Dozens of ways to secure additional publicity at nominal cost.**
- **Over 600 outlets for free publicity and reference to thousands of additional sources.**

In this comprehensive publicity guide, Harry Barber eliminates the mystique of "free publicity"—shows you in detailed, step-by-step procedures, how and where to get it—all the free publicity you'll ever want for yourself or your organization.

*How To Steal A Million $ In Free Publicity* is the ideal reference guide for business owners, corporate executives, political groups, non-profit organizations, and individuals in all walks of life.

**About the author—**
Nationally prominent advertising and public relations executive, Harry Barber, gives it to you straight in his latest book.

The author has developed hundreds of publicity campaigns in conjunction with screen and television personalities, US Astronauts, USAC Racing, major corporations, and private individuals.

**Only $14.95 postpaid**
**SATISFACTION GUARANTEED!**

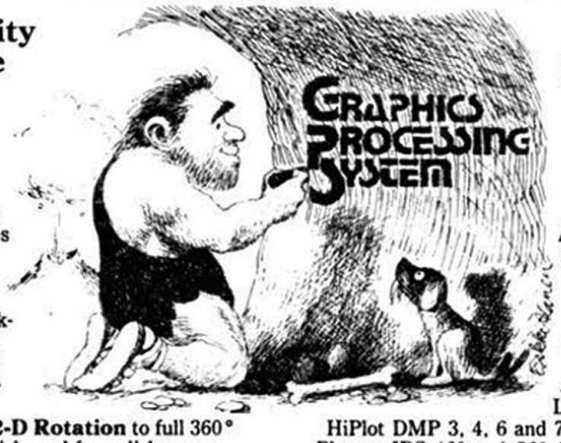
**Success Sellers**
**Publishers & Booksellers**
**P.O. Box 16801**
**Irvine, CA 92713**

**Please rush me a copy of Harry Barber's book, *HOW TO STEAL A MILLION $ IN FREE PUBLICITY*. I enclose $14.95.**

Name _____
Address _____
City _____
State _____ Zip _____

**STONEWARE'S AMAZING NEW GRAPHICS PROCESSING SYSTEM**

**Professional quality graphics for the Apple II Plus.**




After two years of development, Graphics Processing System is the ultimate in fast, low cost, easy-to-use graphics programs. Graphics Processing System creates and edits images in the same manner word processors work with text.

Graphics Processing System features: **Grid Maker** for working with scale and proportion ■ **Colors** can be mixed and used to color lines, objects and backgrounds ■ **Two Zoom** powers for greater detail resolution ■ **2-D Rotation** to full 360° ■ **Duplication** on screen, to disk, and from disk ■ **Text Capabilities** in upper case A-Z, 0-9, and all characters on the Apple keyboard ■ **Modify or Erase** a portion of an image without having to start from the beginning ■ **Enlarge or Reduce** images ■ **Change Proportions** vertically and/or horizontally ■ **Print Overlays** separately and in different colors ■ **Accesses** 16K RAM card ■ **Compatible** with other Apple HiRes graphics ■ **Uses** Apple compatible game paddles and joystick ■ **Speaks** directly to the Apple Silentype printer and accommodates graphic dump programs for other printers ■ **Professional Version** is also compatible with Apple Graphics Tablet, Symtec Light Pen, Houston Instruments HiPlot DMP 3, 4, 6 and 7, HP7470A Plotter, Strobe 100 Plotter, IDS 460 and 560 Graphics Printers, Epson MX80 Printer with Graphtrix.

STONEWARE INCORPORATED
50 Belvedere Street San Rafael CA 94901 (415) 454-6500

Only **$179.** for Professional Version and **$69.** for Standard Version.

Requires 48K Apple II Plus, one or two Apple Disk drives, B&W or color screen, game paddles or joystick. Optional: 16K RAM Card or Language Card, Apple Silentype or other B&W or color printer. GPS is available through leading software distributors and Apple Dealers. Or send check, money order, Visa or MasterCard (include expiration date) to Stoneware Incorporated. California residents add 6% sales tax.

Reg. Trademarks: Apple, Apple Computer, Inc.; Symtec, SYMTEC, Inc.; HiPlot, Houston Instruments Div. of Bausch & Lomb; HP7470A, Hewlett Packard Co.; Strobe 100, Strobe, Inc.; IDS 460 & 560, Integral Data Systems, Inc.; Epson MX80, Epson America, Inc.

**Logo: Language of the 80's**

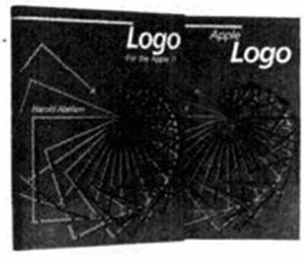
**Apple Logo** and **Logo for the Apple II** introduce you to a dynamic new computer language that not only enables educators to make full and innovative use of the teaching potential of modern computers but also offers programmers an easy-to-use system of considerable power.

Readers of this book will see that the designers' vision of Logo as a virtually unlimited educational tool has now become a reality. Logo enables even young children to use the computer in rewarding, self-directed projects, while at the same time providing sophisticated users with a powerful and expressive general programming system. This book presents the reader with a complete guide to the exciting applications of this unique procedural language.

The author introduces programming techniques through Turtle Geometry—a series of fascinating exercises involving both Logo programming and geometric concepts. Later chapters illustrate more advanced projects that utilize Logo's sophisticated list-processing capabilities; these include the conversational DOCTOR program with its simulated psychotherapist and an INSTANT program with which parents and teachers can create a programming environment for preschool children. The book also contains reference material of enduring value to sophisticated users.

Get in on the ground floor of the burgeoning Logo movement with this comprehensive, detailed guide to the up-and-coming computer language of the Eighties!

This book is published in two versions: **Apple Logo** is for users of Apple Logo™ software (distributed by Apple Computer Company) and contains an appendix for users of TI Logo™. **Logo for the Apple II** is specifically for users of Logo software developed at MIT for the Apple II computer (distributed by Krell Software and Terrapin, Inc.). **Logo for the Apple II** also contains appendices that enable users of Apple Logo™ and TI Logo™ to carry out the projects in the book. Be sure to specify **Apple Logo** or **Logo for the Apple II** when ordering!




**by Harold Abelson**

**Apple Logo**
**$14.95**
**240 pages,**
**softcover, illustrated**

**Logo for the Apple II**
**$14.95**
**240 pages,**
**softcover, illustrated**

*Add $1.00 per book to cover postage and handling.*
*Prepayment required.*

**ORDER TOLL FREE**
**800-258-5420**

**BYTE Books**
**70 Main St.**
**Peterborough, N.H. 03458**

In spite of its shortcomings, its repertoire makes it attractive as a second software source.

No Commodore computer features survive the conversion; the PET is now a copy of a Lear Seigler ADM3A, TeleVideo 912C or Hazeltine 1500. The reverse-video key is now control, and run/stop is now escape. All keys have a repeat function. Drives 0 and 1 are now named A and B.

While SoftBox won't run PET BASIC, it has a utility to convert PET programs to Microsoft Extended BASIC (ASCII) format, or to convert Commodore sequential files to CP/M format. Softbox can peek and poke PET memory locations. Commodore DOS features contained in the drives' ROM memories remain, but under SoftBox control.

SoftBox supports multiple Corvus hard disks, with the Mirror videocassette backup.

**PERFORMANCE:** My unit arrived damaged. The board is attached to its cabinet by four press-in plastic mounting feet, which succumbed to shipping abuse. The board apparently crossed the continent rattling around inside the case, but it worked when I plugged it in. I therefore decided that further abuse testing would be cruel and unusual.

To test endurance, I left the unit plugged in all day for a week. The transformer became almost too hot to touch, but everything worked. Since SoftBox is on the bus even when it's not active, it can send signals; when you turn on the switch, the printer executes a carriage return without a line feed.

**EASE OF USE:** The system is simple to plug in and run. The power switch is on the back—an inconvenience Commodore users have come to expect on peripherals.

Generically CP/M is not as easy or as fast as Commodore disk BASIC. Commands that are ROM-resident in Commodore 4.0 BASIC, are disk-command files in CP/M, and must be called from the disk. Moreover, the whole system is in RAM, which makes it difficult to compare the capacity of a 60K SoftBox against a 32K CBM computer with intelligent peripherals, a ROM operating system and a resident language.

Without a language loaded, the 60K SoftBox has about 54K bytes free of RAM, some of which a language must consume; I did not have a language for review. Since conventional ASCII programs are larger than CBM BASIC programs, the net work-space probably is about the same on a SoftBox as on a 32K PET.

**DOCUMENTATION:** SoftBox comes with a 72-page indexed loose-leaf manual. Generally, the manual is well organized and clearly written, which is a welcome novelty. However, it is not designed to be an introduction to CP/M for PET owners.

In a section "for CP/M users," the authors state, correctly, "You need not be familiar with the PET or PET BASIC to use the SoftBox." Unfortunately, the manual has no section "for PET

*See SoftBox, page 62*


**Main/Frames**

**Main/Frames**
from
**$200**

- 30 Models of Enclosures
- Assembled and tested
- Quasi-Coax Motherboards
- Power Supply
- Card cage and guides
- Fan, line, cord, fuse, power & reset switches

8" Floppy Main/Frame

8" Disc Enclosure

Phase/80 8" Floppy Mainframe

Phase/80 Desk + Mainframe

Write or call for our brochure which includes our application note: "Building Computers — A Recipe"

INTEGRAND

8620 Roosevelt Ave. • Visalia, CA 93291
209/733-9288
We accept BankAmericard/Visa and MasterCharge

**Apple™ users. THE SOURCE℠ and TRANSEND.™ Together for the first time for only $89.**

Buy our $89 Transend state-of-the-art data communications software and membership in THE SOURCE, AMERICA'S INFORMATION UTILITY℠, is included. This combination allows you to easily access one of the world's largest information services for up-to-the-minute news and sports, stock prices, travel services and much more.

An optional 260-page Source User's Manual is available for $19.95. Your dealer has complete details. Call 800-227-2400, ext. 912 (in Calif. 800-772-2666, ext. 912) for the name of your local Transend dealer.
Offer expires Oct. 1, 1982.

Apple is a trademark of Apple Computer Inc.
THE SOURCE and AMERICA'S INFORMATION UTILITY are service marks of Source Telecomputing Corp., a subsidiary of The Reader's Digest Association Inc.

**The Transformation People.**

SSM Microcomputer Products Inc.
2190 Paragon Drive, San Jose, CA 95131

NOW—A COMPLETE CP/M PASCAL—FOR ONLY

**$29.95!**

Goodbye BASIC, PL/1, COBOL—hello PASCAL! Now, to make this most advanced language available to more micro users, we've cut our price—to an amazing **$29.95!** This astonishing price includes the complete JRT Pascal system on diskette and the comprehensive new user manual. Not a subset, it's *a complete Pascal for CP/M.** Check the features:

*Separate compilation of external procedures • Auto-loading • 14 digit FLOATING POINT arithmetic • True dynamic storage • Verbal error messages • Fast one-step compiler: no link needed • Graphing procedures • Statistic procedures • Activity analyzer prints program use histogram • Advanced assembler interface*

**THIS IS THE SAME SYSTEM WE SOLD FOR $295!**

So how can we make this offer?—why the unbelievable deal? Very simply, we think all software is overpriced. We want to build volume with the booming CP/M market, and our overhead is low, so we're passing the savings on to you.

**AND AT NO RISK!**

When you receive JRT Pascal, look it over, check it out. We invite you to compare it with other systems costing ten times as much. If you're not completely satisfied, return the system—with the sealed diskette unopened—within 30 days and your money will be refunded in full! *THAT'S RIGHT—COMPLETE SATISFACTION GUARANTEED OR YOUR MONEY BACK!*

In addition, if you want to copy the diskette or manual—so long as it's not for resale—it's o.k. with us. Pass it on to your friends! BUT ACT TODAY—DON'T DELAY ENJOYING PASCAL'S ADVANTAGES—AT $29.95, THERE'S NO REASON TO WAIT!

JRT

To: JRT SYSTEMS
1891—23rd Avenue
San Francisco, CA 94122
phone 415/566-4240

PASCAL

O.K. You've sold me. Send me JRT Pascal by return mail. I understand that if I'm not completely satisfied, I can return it within 30 days—with the sealed diskette unopened—for a full refund.
I need ☐ 8" SSSD diskette. ☐ 5¼" diskette for ☐ Northstar, ☐ Osborne, ☐ Apple-CP/M, ☐ Heath, ☐ Superbrain.

Name _____ Address _____

City _____ State _____ Zip _____

☐ Check ☐ C.O.D. ☐ Mastercharge ☐ VISA
(CA residents add sales tax. Add $6 for shipping outside North America.)

Card # _____ Exp. _____

Signature _____
*CP/M is a Digital Reserach TM. A 56K CP/M system is required.

CP/M is a trademark of Digital Research

POWER

PIP copying pains?

does it easier and more

ONLY $149
50 COMMAND program puts YOU in control of CP/M.*

COMPUTING!
2519A Greenwich St San Francisco, CA 94123

## SoftBox

*continued from preceding page*

users," who will, after all, be the primary market for a PET add-on box.

**SERVICEABILITY:** Four screws secure the top cover of the SoftBox; once it is removed, the entire component side is revealed. I needed to open the case to check shipping damage, which some sort of temporary tie-down device could have avoided. In case your unit should suffer, it has a 90-day warranty. The manual makes no mention of servicing arrangements, although you can return the unit to the distributor—and gives no schematics.

The board's circuits are all in sockets, for easy replacement if necessary. I had to realign the power-on indicator LED, which did not line up to the little hole in the box.

Software support is a different issue. On page 3 of the manual, the authors wax eloquent about the vast libraries of languages and applications available for CP/M, but nowhere do they tell you how to specify the format to order. The product's advertising mentions a software catalog, which was not included with my copy of the manual. I learned subsequently that the catalog does not yet exist.

To use CP/M software, you must either buy it from SSE or buy it on 8-inch single-density disks and send it to SSE for conversion—at a $25 charge. Programs supplied by other vendors on standard mini-floppies will not run on the SoftBox.

**SETUP:** I detected no setup problems. You just find a plug, anywhere among the PET cables, and plug it in.

**SUMMARY:** As it comes, SoftBox is a complete CP/M computer, but no applications or languages (except assembler) are included.

Veteran PET users will be taken aback by the complexity of CP/M options. Because the system is portable and modular, it expects us to make configuration decisions that we customarily have left to Commodore.

The Soft Box is a well-designed machine that fills a perceived gap in the Commodore product line. Its designers and authors appear to have touched all bases. I suspect most users will buy it as an accessory not as a primary programming medium. ■

KEY MICRO

*offers you*

**The Best of Both Worlds**

**MP/M 8-16**

Compupro's Proprietary Implementation of MP/M 86. MP/M 8-16 is a Multi-User operating system that allows you to run 8 and 16 bit software at the same time.

Hardware & Software Available for Immediate Delivery.

Software Products from KEY

**RM/COBOL**
**Ansi 74 Cobol for CP/M**

**COGEN**
**R/M Cobol Program Generator**
*Demo Disk Available*

**EASYKEY**
Wordstar Made Easy for Televideo 950 & 800 series.

Your Authorized
CompuPro SYSTEMS
SYSTEMS CENTER

KEY MICRO SYSTEMS INC.
978 Tiogue Avenue, Coventry, RI 02816
(401) 828-7270

***And Now in the Boston area***
822 Boylston Street, Suite 201
Chestnut Hill, MA 02167
(617) 738-7305

*MP/M & MP/M 86 are trademarks of Digital Research*
*Compupro is a trademark of Godbout Electronics*
*R/M COBOL is a trademark of Ryan-Maclarland Corp.*
*COGEN is a trademark of bytek*
*Wordstar is a trademark of Micropro International*
*Televideo is a trademark of Televideo Systems Inc.*

IN STOCK! IMMEDIATE DELIVERY! FACTORY FRESH!

SPECIAL!
QUME DT-8 $475 QTY-1

TANDON
5¼" DISK DRIVES
FOR
IBM PERSONAL,
ZENITH/HEATH, NORTHSTAR

TM-100 -1 SSDD 48TPI $225 QTY 1
TM-100 -2 DSDD 48TPI $315 QTY 1
TM-100 -4 DSDD 96TPI $395 QTY 1
SPECIAL!

DYSAN 204/2D DISKETTES 5¼" DSDD 96TPI $59.50/BOX

MEDIA DISTRIBUTING (408) 438-5454
4444 Scotts Valley Dr.
Scotts Valley, CA 95066
Terms:
COD, MC, VISA, CASHIER'S CHECK
SHIPPING CHARGES ADDED

SBL

**The Language for Authors of Serious Business Programs**

**Easier** — SBL supports basic-like statements. SBL has built-in functions and statements to make output routines faster and easier.

**Speeds System Development** — SBL has a simple one step compiler-linker operation.

**Powerful** — SBL is more powerful than M-BASIC™ or C-BASIC™ because it supports byte, word, fixed, BCD, single and double precision floating point as well as strings.

**Complete** — SBL supports "begin-end", "case-of" "while-do", and other conditional statements.

**Faster** — SBL supports direct disk access and DMA control. SBL also compiles to a true native machine code.

**Options** — THESE OPTIONAL time saving routines available in source code.
1. B-tree subroutines
2. Universal console and photo drivers
3. MP/M time and date functions
4. Formatted input functions
5. MP/M 2 file and record lock/unlock

***SBL Will Compile And Run On Any CP/M Hardware***

dp Business Systems, Inc.
Dealer inquiries invited.
CP/M, MP/M and C-BASIC are Registered Trademarks of Digital Research Inc.
M-BASIC is a Registered Trademark of MICROSOFT Inc. SBL is a Trademark of Topaz Programming.

**STRUCTURED BUSINESS LANGUAGE**
Distributed By:
**DP Business Systems Inc.**
111 El Monte Way
Concord, California 94519
Telephone (415) 680-0215