

Catalog C

# **Simutek's TRS-80\* Users Catalog**

\*TRS-80 and Radio Shack are trademarks of Tandy Corp.  
Simutek is not affiliated with Tandy Corp.

# Introduction To Simutek

**SIMUTEK** has been in the business of supplying TRS-80\* owners with the highest quality software for almost three years. We were created with this idea in mind and have succeeded if the hundreds of letters from satisfied customers are any indication! (*at least 50% of our customers re-order within 30 days!*)

Thanks to your great response to **SIMUTEK** as a software publisher, we have now expanded to offer you **GREAT DISCOUNTS** on the best quality hardware as well! We promise to continue our fast delivery service and keep up our quality control! (**WE TEST ALL EQUIPMENT BEFORE IT LEAVES OUR WAREHOUSE.**)

We have also added a **TOLL FREE NUMBER** to make ordering that much easier for you. (*it will save you at least 15 cents.*) AZ. residents call collect.

We are also concerned for the welfare of our customers. Recently a customer had taken his computer to a **RADIO SHACK\*** computer center for repair. He was told it would cost \$270.00 to fix! The only apparent reason for this outrageous price seemed to be that he had voided his warranty by opening the keyboard! He called us to see if we might suggest a better way. We had him ship us his computer from Michigan to see what we could do. From his description of the problem we couldn't see why it cost that much. When we received his computer and checked it out, all that was wrong was a 12 cent I.C.! We repaired the computer for him and returned it within a week. Total cost to him: \$15.00 plus shipping. If he hadn't called us, **RADIO SHACK** would have got him for over \$200.00 more! Other people we have talked to have had similar problems with RS. If we can be of help to any of our customers, please let us know. We have the staff and the know how to aid you and maybe save you a few dollars!

We at **SIMUTEK** want to be your **COMPUTER STORE!** If we can be of help in any way: Software questions, technical questions, or any problem that you have with your TRS-80 computer, please feel free to call us at (602) 886-5880. If your local Radio Shack store is like our local Radio Shack store, they don't know much about your computer, except to sell it to you! By the way, we have **GREAT DISCOUNTS** on TRS-80 equipment. See descriptions in catalog.

## Attention Programmers:

**SIMUTEK** is looking for **HIGH QUALITY SOFTWARE** for the TRS-80. We only accept programs that are user oriented and free from errors. If you have developed good business, educational or game software, please send us a copy on tape or disk. If your program is accepted, we will send you a contract to sign. Our royalties are between 10-15% on each program sold! We pay royalties the first of every month. All game and educational software must fit in a 16K Level II TRS-80. We do not accept Level I programs!

Make extra money in your spare time! Your hobby can be profitable! Only "ORIGINAL PROGRAMS", please!

## SIMUTEK

P.O. Box 13687  
Tucson, AZ 85732  
(602) 886-5880

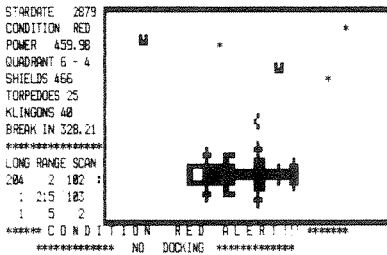
**ORDERS ONLY: Call Toll Free: 800-528-1149.**

\*TRS-80 and RADIO SHACK are TM's of Tandy Corporation. SIMUTEK is not affiliated with Tandy Corporation in any way.

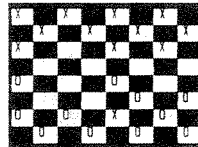
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# Sensational Simutek Software! Fine Games Sold All Over The World!



C4-E2  
YOU MAKE IT HARD TO WIN MIKE



MICRO-CHECKERS 2.1

A B C D E F G H  
MOVE? F1-D3.

**Package One Includes: Graphic Trek "2000"** — This full graphics, real time game is full of fast, exciting action! Exploding photon torpedoes and phasers fill the screen! You must actually navigate the enterprise to dock with the giant space stations as well as to avoid klingon torpedoes! Has shields, galactic memory readout, damage reports, long range sensors, etc! Has 3 levels for beginning, average, or expert players! ★ **Invasion Worg** — Time: 3099, Place: Earth's Solar System Mission: As general of Earth's forces, your job is to stop the Worg Invasion and destroy their outposts on Mars, Venus, Saturn, Neptune, etc! Earth's Forces: Androids — Space Fighters — Lazer Cannon — Neutrino Blasters! Worg Forces: Robots — Saucers — Disintegrators — Proton Destroyers! Multi level game lets you advance to a more complicated game as you get better! ★ **Star Wars** — Maneuver your space fighter deep into the nucleus of the Death Star! Drop your bomb, then escape via the only exit. This graphics game is really fun! May the Force be with you! ★ **Space Target** — Shoot at enemy ships with your missiles. If they eject in a parachute, capture them — or if you're cruel, destroy them! Full graphics, real time game! ★ **Saucers** — This fast action graphics game has a time limit! Can you be the commander to win the distinguished cross! Requires split second timing to win! Watch out!

CAT. #0001 ..... \$14.95

**Package Two Includes: Checkers 2.1** — Finally! A checkers program that will challenge everyone! Expert as well as amateur! Uses 3-ply tree search to find best possible move. Picks randomly between equal moves to assure you of never having identical games. ★ **Poker Face** — The computer uses psychology as well as logic to try and beat you at poker. Cards are displayed using TRS-80's full graphics. Computer raises, calls, and sometimes even folds! Great practice for your Saturday night poker match! (Plays 5 card draw). ★ **Psychic** — Tell the computer a little about yourself and he'll predict things about you, you won't believe! A real mind bender! Great amusement for parties. ★ **Tangle Mania** — Try and force your opponent into an immobile position. But watch out, they're doing the same to you! This graphics game is for 2 people and has been used to end stupid arguments. (And occasionally starts them!) ★ **Word Scramble** — This game is for two or more people. One person inputs a word to the computer while the others look away. The computer scrambles the word, then keeps track of wrong guesses.

CAT. #0002 ..... \$14.95

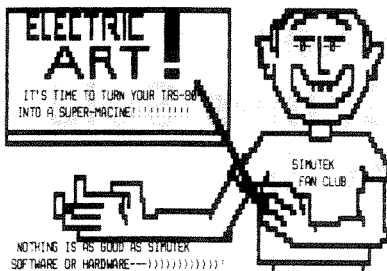
All programs require a minimum of 16K Level II.  
Packages available on diskette  
(32K System) \$5.00 extra.  
3 or more packages get 10% discount!  
Use our handy Order Form on page 12.

**Call our Toll Free Number today! 800-528-1149.**

Free Shipping!

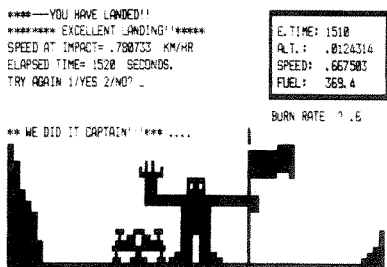
No tax on out of state orders.

Foreign orders, please add \$2.00 for shipping and handling.



**Package Three Includes: Poetry** — This program lets you choose the subject as well as the mood of the poem you want. You give TRS-80 certain nouns or names, then the mood, and it does the rest! It has a 1000-word + vocabulary of nouns, verbs, adjectives and adverbs! ★ **Electric Artist** Manual: draw, erase, move as well as, Auto: draw, erase and move. Uses graphics bits not bytes. Saves drawing on tape or disk! ★ **Galactic Battle** — The Swineus enemy have long range phasers but cannot travel at warp speed! You can, but only have short range phasers! Can you blitzkrieg the enemy without getting destroyed! Full graphics — real time! ★ **Word Mania** — Can you guess the computer's words using your human intuitive and logical abilities? You'll need to, to beat the computer! ★ **Air Command** — Battle the Kamikaze pilots. Requires split second timing. This is a FAST action arcade game.

**CAT. #0003 ..... \$14.95**



**Package Four Includes: Life** — This Z-80 machine language program uses full graphics! Over 100 generations per minute make it truly animated! You make your starting pattern, the computer does the rest! Program can be stopped and changes made! Watch it grow! ★ **Space Landers** — This full graphics simulator lets you pick what planet, asteroid or moon you wish to land on! Has 3 skill levels that make it fun for everyone. ★ **Greed II** — Multi-level game is fun and challenging! Beat the computer at this dice game using your knowledge of odds and luck! Computer keeps track of his winnings and yours. Quick fast

action. This game is not easy! ★ **The Pharaoh** — Rule the ancient city of Alexandria! Buy or sell land. Keep your people from revolting! Stop the rampaging rats. Requires a true political personality to become good! ★ **Robot Hunter** — A group of renegade robots have escaped and are spotted in an old ghost town on Mars! Your job as "Robot Hunter" is to destroy the pirate machines before they kill any more settlers! Exciting! Challenging! Full graphics!

**CAT. #0004 ..... \$14.95**

RACE # 1 ** COMPUTER INTERNATIONAL RACEWAY **			
1	LOSERS MONKEY	0005	4 TO 1
2	DRUNKIN MOUNTAIN	0005	3.57143 TO 1
3	GERMAN DOLPHIN	0005	25 TO 1
4	GLAZY DEER	0005	5.26316 TO 1
5	SUPER SLIM	0005	16.6667 TO 1
6	SLOW DOLPHIN	0005	5.26316 TO 1
7	FANTASTIC MOON	0005	4.16667 TO 1
8	SILLY DWARF	0005	14.2857 TO 1

MAKE, INPUT # OF HORSE AND BET, (COMMA BETWEEN) 3,500.

**Package Five Includes: Super Horserace** — Make your bets just like at the real racetrack! 8 horses race in this spectacular graphic display! Up to 9 people can play! Uses real odds but has that element of chance you see in real life! Keeps track of everyone's winnings and losses. This is one of the few computer simulations that can actually get a room of people cheering! ★ **Maze Mouse** — The mouse with a mind! The computer generates random mazes of whatever size you specify, then searches for a way out! The second time, he'll always go fastest route! A true display of artificial intelligence! Full graphics, mazes & mouses! ★ **Amoeba Killer** — You command a one man submarine that has been shrunk to the size of bacteria in this exciting graphic adventure! Injected into the president's bloodstream, your mission is to destroy the deadly amoeba infection ravaging his body! ★ **Logic** — This popular game is based on Mastermind but utilizes tactics that make it more exciting and challenging — has 2 levels of play to make it fun for everyone. ★ **Submariner** — Shoot torpedoes at the enemy ships to get points. Fast action graphics, arcade type game is exciting and fun for everybody!

**CAT. #0005 ..... \$14.95**

**Package Seven Includes: Backgammon 5.0** — 2 different skill levels make this game a challenge to average or advanced players FAST (15 second avg) Looks for best possible move to beat you! FANTASTIC GRAPHICS. Plays doubles and uses international rules ★ **Speed Reading** — Increases your reading speed. Also checks for comprehension of material. Great for teenagers and adults to improve reading skills ★ **PT 109** — Drop depth charges on moving subs. Lower depths get higher points in this fast action graphics game. ★ **Yahzee** — Play Yahzee with the computer. This popular game is even more fun and challenging against a TRS-80! ★ **Wall Street** — Can you turn your \$50,000 into a million dollars? That's the object of this great game. Simulates an actual stock market!

**CAT. #0007 ..... \$14.95**

All programs require a minimum of 16K Level II.

Packages available on diskette

(32K System) \$5.00 extra.

3 or more packages get 10% discount!

Use our handy Order Form on page 12.

**Call our Toll Free Number today! 800-528-1149.**

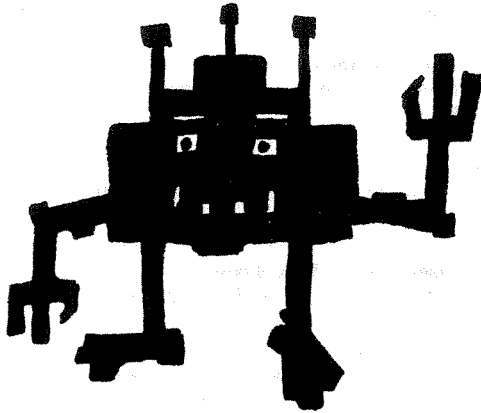
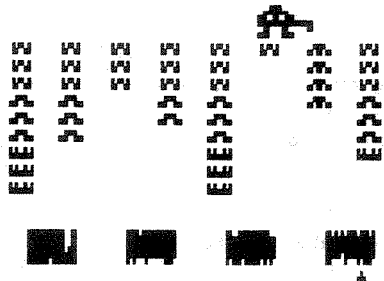
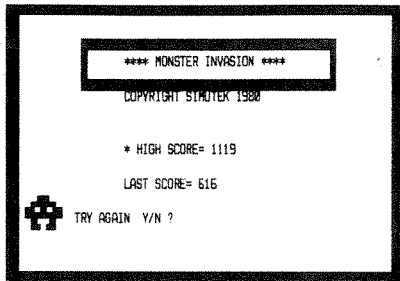
Free Shipping!

No tax on out of state orders.

Foreign orders, please add \$2.00 for shipping and handling.

# Monster Invasion

with fantastic sound effects!



Don't waste your quarters at the arcades ever again. This "super fast" machine language program is the finest invaders game for the TRS-80 ever made! Comes with sensational sound effects!

**Order This Classic Today!**

**Only \$19.95**

**CAT. #67666**

*P.S. The animation is so good, the illustrations don't do it justice!*

**Call our Toll Free Number today! 800-528-1149.**

**Free Shipping!**

**No tax on out of state orders.**

**Foreign orders, please add \$2.00 for shipping and handling.**

# More Great Software

## From "Microsoft & Creative Computing"

### **Air Traffic Controller!**

A fantastic simulation written by an air traffic controller! Simulates an air traffic controllers job! (*We now know why so many have ulcers!*) Written in machine language (from Creative Computing Software)16K Level II

**CAT. #9201** ..... \$24.95

### **Microsoft Adventure:**

A great adventure program originally implemented on the PDP-10! Requires 32K and 1 disk.

**CAT. #0910** ..... \$39.95

### **Level III Basic by Microsoft:**

Super graphics commands, new CSAVE, CLOAD, Disk commands from Level III and lots more! Requires Level II 16K. (*Will not work with disk*)

**CAT. #9202** ..... \$49.95

### **Typing Tutor from Microsoft:**

Does exactly that! Teaches you to type using a proven system! Level II 16K.

**CAT. #9203** ..... \$29.95

### **Microsoft's New Editor/Assembler+:**

Includes macro utilities, debugger, renumber, execute directly! Much more! Requires Level II 16K.

**CAT. #9204** ..... \$29.95

### **Microsoft's Fortran:**

Now you can run Fortran on your TRS-80! Get the Fortran from the maker of your Level II Basic! Requires 32 K and 1 disk.

**CAT. #9205** ..... \$85.95

### **Microsoft's Macro Assembler for Disk Systems:**

Includes editor linking loader and more! Requires 32K +1 disk drive.

**CAT. #9206** ..... \$85.95

### **NEW! Microsoft's Basic Compiler:**

Compile your basic programs and make them operate at between 10 and 30 times faster! A fantastic tool for serious programmers! Requires 48K 1 disk drive.

**CAT. #9207** ..... \$199.95

**Call our Toll Free Number today! 800-528-1149.**

Free Shipping!

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# TRS-80 BASIC PLUS

## ZBASIC, SIMUTEK'S BASIC COMPILER

The following **BASIC PROGRAM**, written on the TRS-80, was compiled using MICROSOFT'S BASIC COMPILER and SIMUTEK'S BASIC COMPILER. *We feel the results speak for themselves!*

```
10 ' SPEED TEST
    SIMUTEK ZBASIC COMPILER VS. MICROSOFT COMPILER
15 CLS:PRINT"0, "HIT A KEY WHEN READY TO START TEST";
20 I$=INKEY$:IFI$=""THEN2ELSEFORZ=1TO10:
FORX=1536TO16383:POKEX,191:PRINTPEEK(X);:NEXTX
30 FORX=0TO127:FORY=0TO47:SET(X,Y):NEXTY,X
:FORX=127TO0STEP-1:FORY=47TO0STEP-1:RESET(X,Y)
:NEXTY,X:FORX=1TO1000:GOSUB1000:NEXTX,Z
40 CLS:PRINT"FINISHED WITH PROGRAM TEST";:STOP
1000 RETURN
```

**BASIC PROGRAM SIZE: 329 BYTES**  
**PROGRAM RUN: 22 Minutes, 37 Seconds**

Compilers:	Microsoft	Simutek
Compiled Size:	10057 Bytes	1228 Bytes
Compile Time:	14 Minutes	0.75 Seconds
Program Run:	17 Min. 04 Sec.	1 Min. 46 Sec.
System Req:	48K 1 Disk	16K LV II or 32-48K Disk
Price:	\$195.00	Tape \$99.00, Disk \$129.00

ZBASIC is an "Interactive Compiler". This means it is resident while you write your basic programs. You may compile your program and run it or save it, without destroying your resident basic program! In fact, jumping back and forth between your compiled program and your basic program is one of it's best features!

Simutek's compiler allows saving your "compiled" programs to tape or disk. Programs may then be loaded by use of the system command for tape, or as a /CMD file from DOS. This makes it extremely hard for people to "pirate" your programs.

Best of all, Simutek does not charge royalties on programs you sell that are compiled with ZBASIC! (Microsoft charges 10% or \$200 a year!)

*Why use a complicated "Assembler" to write machine language programs when you can write them in ZBASIC?*

### Some of the basic commands supported by ZBASIC:

FOR	NEXT	STEP	IF	THEN	ELSE	PEEK	ON GOTO
SET	RESET	POINT	CHR\$	RANDOM	RND ( )	POKE	ON GOSUB
DATA	READ	RESTORE	END	GOTO	GOSUB	CLS	
INPUT	INKEY\$	LET	STOP	OUT	INP	RETURN	
PRINT	LPRINT	PRINT@	USR	SGN	INT	ABS	
SQR	LEN	ASC	VAL				

INT. MATH: +, -, \*, /, AND, OR, SQR

### Model I TRS-80 (or PMC-80) Only

**ZBASIC Tape Version: 16K Level II TRS-80**

**\$99.00**

**ZBASIC Disk Version: 32 or 48K 1 Disk Sys.**

**\$129.00**

**ZBASIC Manual Only:**

**\$25.00**

TRS-80 is a TM of Radio Shack, a Tandy Corp.

**Call our Toll Free Number today! 800-528-1149.**

No tax on out of state orders.

Foreign orders, please call or write for shipping costs.

# TRS-80 Compatible Disk Drives! At Great Prices!

**All Drives Come Complete With Power Supply and Case!**  
**Full 90 Day Warranty on All Drives (1 Year on Power Supply)**

MPI Disk Drives: 20% More Storage Capacity than Radio Shack's! 40 track. These drives operate 8 times faster than Radio Shack's! 5 ms versus 40 ms! MPI's may be used with Radio Shack's drives or any other drives on the same cable. All of our drives come complete with power supply and case. Ready to plug in and run! Full 90 day warranty! 1 year on power supply.

## **MPI Single 40 Track Drive**

Please add \$6.00 for postage and handling per drive.

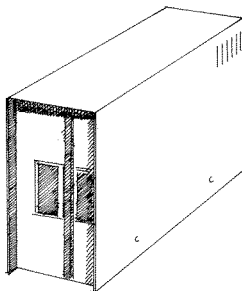
**CAT. #8000** ..... **\$349.00**

MPI Dual Drives: Twice the capacity of Radio Shack's Drives! 70 tracks versus 35 track! Dual drive may be used as drives 0 and 1, 1 and 2 or 2 and 3! Same as two drives! Save money on expensive diskettes! One side of diskette is same as one drive. Other side same as another drive! Great buy!

## **MPI Dual Drive. 70 Tracks**

Please add \$6.00 for postage and handling per drive.

**CAT. #8001** ..... **\$449.00**



Shugart Disk Drive: Same identical drive that Radio Shack sells for a much higher price! 35 track — 40 MS. Complete with power supply, case and warranty!

## **Shugart Disk Drive 35 Track**

Please add \$6.00 for postage and handling per drive.

**CAT. #8002** ..... **\$339.00**

Pertec Disk Drives: These drives have 20% more storage than Radio Shack's! You can also use both sides of a diskette by just turning them over! Save hundreds of dollars on expensive diskettes! One of the BEST drives on the market! You may use these drives on the same cable as Radio Shack's, MPI single or dual, or Shugart drives!

## **Pertec Disk Drives 40 Track**

Please add \$6.00 for postage and handling per drive.

**CAT. #8060** ..... **\$349.00**

Micropolis Disk Drives: Micropolis drives will store 77 tracks each! Over 200,000 bytes of information on each drive! This is twice as much as most conventional drives! Our price includes: Cable and 77 track NEWDOS 80. When operating with NEWDOS 80 you may have any type drives on line along with the Micropolis drive! (4, 77 track drives = 800,000 bytes storage!)

## **Micropolis Drive + Cable + NEWDOS**

**CAT. #8067** ..... **\$689.00**

## **Micropolis Drive without cable and DOS**

**CAT. #8068** ..... **\$639.00**

Please add \$6.00 for postage and handling per drive.



# 8 Inch Floppy Drive System For TRS-80 Model I

Now your TRS-80 can have all the power of the bigger systems! Each 8 inch drive will hold 300,000 bytes of data! 3 times as much as the smaller drives! Our system includes: 2 Shugart 8 inch floppy drives, a simple hardware modification to the expansion interface. (*Installs easily in 2-3 minutes. No soldering!*), and apparatus NEWDOS 80! NEWDOS 80 supports 8 inch and 5 inch drives on the same cable! You must use a 5 inch drive for drive 0. You can now have both 5 inch drive and 8 inch drive capabilities on the same system! One 5 inch drive and three, 8 inch drives = 1 million bytes of storage!

## **2 Shugart Floppy Disks (300K)**

### **1 NEWDOS 80**

### **1 Hardware Mod for Expansion Interface**

Please add \$10.00 per system for postage and handling.

**CAT. #8099** ..... **\$1399.00**

Call for single 8 inch drive prices.

Maxi-Disk 2: This Winchester hard disk drive will store over 9 million bytes of information! Comes complete with power supply cabinet, cable and apparatus's DOS +. This is a super deal for those that need large storage! Maxi-Disk 2 is equal to over a hundred 5" floppys! (*100 MPI's would cost you OVER \$37,000.00!*)

## **9 Megabyte Hard Disk Drive with Cable and DOS**

Please add \$20.00 for postage and handling.

**CAT. #8999** ..... **\$5199.00**

**All hardware comes with a 90 day warranty!**

**Call our Toll Free Number today! 800-528-1149.**

No tax on out of state orders.

Foreign orders, please call or write for shipping costs.

# Special Prices on Diskettes!

<b>CAT. #8090 Verbatim 5 Inch (Box of Ten) (MPI, Shugart, Pertec, RS)</b>	<b>\$29.99</b>
<b>CAT. #8091 Verbatim 5 Inch Dual Sided (Box of ten)</b>	<b>\$49.95</b>
<b>CAT. #8092 Verbatim 5 Inch 77 Track (Box of ten) (Micropolis)</b>	<b>\$49.95</b>
<b>CAT. #8093 Verbatim 8 Inch Floppys (Box of ten)</b>	<b>\$42.50</b>

Please add \$0.75 per box for postage and handling.

## Cables

<b>CAT. #8011 2 Drive Cable (for all of our drives)</b>	<b>\$25.95</b>
<b>CAT. #8012 4 Drive Cables (for all of our drives)</b>	<b>\$35.95</b>
<b>CAT. #8013 Cable Extender (for short cables)</b>	<b>\$18.95</b>

**FREE SHIPPING!**

## Disk Utility Software

### **NEWDOS+ By Apparat:**

Includes ref command for basic variables and line numbers. Renumber. Print screen options under DOS or basic! New Basic scrolling commands! Load module for transferring machine language programs to disk! Improved disk dump! The famous SUPERZAP disk modification program! Level I in your Level II! Dircheck Editor/assembler and a disassembler and an IMPROVED BACKUP COMMAND. Specify 35 or 40 track.

\$1.00 postage.

<b>CAT. #8020</b>	<b>Only \$99.00</b>
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### **NEWDOS 80:**

All NEWDOS+ features plus: Basic file commands that support files up to 4096 bytes each! Mix and match "any type of floppy drives! Use any combination of 35, 40 or 77 track 5" drives or 8" disk drives, or any combination! New editing commands allow any basic lines to be moved to any other position in the program! Powerful program chaining commands! Allows for a special "MINI-DOS" to be used for large programs! Upward compatible with NEWDOS 2.1 and TRSDOS 2.3. This is the best disk operating system for your TRS-80 Model I system.

\$1.00 postage.

<b>CAT. #8021</b>	<b>Only \$149.95</b>
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### **TRS-80 Disk and Other Mysteries:**

This new book by H.C. Pennington explains everything about TRS-80 disk systems! Includes comprehensive descriptions of NEWDOS, SUPERZAP, and how files are made on disk etc.

\$1.00 postage.

<b>CAT. #8022</b>	<b>\$22.50</b>
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### **Radio Shack's Disk Basic Manual:**

A must for the disk user. NEWDOS+ manual does not contain this information!

\$1.00 postage.

<b>CAT. #8023</b>	<b>\$5.95</b>
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**Call our Toll Free Number today! 800-528-1149.**

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# Special Package Deals On TRS-80 Equipment!

## DISK DRIVE SYSTEM CAT. #6666

2 Shugart 5 Inch Drives .... List \$738.00  
 1 Two Drive Cable ..... List \$ 25.95  
 1 Expansion Interface 32K ..... \$597.00  
 1 Apparat NEWDOS+ ..... \$ 99.00

Total List Price ..... \$1459.95  
**SPECIAL SIMUTEK PRICE** .... \$1199.00  
**YOU SAVE** ..... \$ 260.95

Please add \$9.00 for shipping.

## BUSINESS SYSTEM CAT. #6667

4 Shugart 5 Inch Drives ..... \$1,475.00  
 4 Drive Cable ..... \$ 35.95  
 1 Expansion Interface 32K ..... \$597.00  
 1 Apparat NEWDOS+ ..... \$ 99.00  
 1 Okidata Printer 132 Col. .... \$750.00

Total List Price ..... \$3047.95  
**SPECIAL SIMUTEK PRICE** .... \$2695.00  
**YOU SAVE** ..... \$ 352.95

Please add \$9.00 for shipping.

# Beginning Computer Specials!

## 1 Expansion Interface 32K

1 Shugart Disk Drive with Cable and NEWDOS. Please add \$9.00 for postage and handling.

CAT. #6668 ..... \$859.00

## 1 16K Level II, Expansion Interface 32K

1 Shugart Disk, NEWDOS+. Please add \$9.00 for postage and handling.

CAT. #6669 ..... Only \$1500.00

## Same as #6669 but with PMC-80 Computer

16K Level II. (SEE INFORMATION ON PMC-80 ELSEWHERE IN CATALOG) Please add \$9.00 for postage and handling.

CAT. 6670 ..... Only \$1350.00

Foreign orders must add 5% for postage and handling. Overseas Air Mail add 10%.

# OKIDATA Printer The Best Printer In The World For The TRS-80!

**We'll stake our reputation on it! Look at the features:**

1. 200 million character head warranty! Better than any competitor!
2. Works under the most demanding business applications!
3. A "real" 9x7 DOT matrix impact printer!
4. 80 characters per second!
5. Full upper & lower case!
6. Double width characters!
7. Supports Model I TRS-80 graphics! (See illus.)
8. Connects directly to TRS-80 with standard cable!
9. Friction & pinfeed. Use roll paper, stationary or reg. data paper!
10. Optional tractor feed available.
11. 6 or 8 lines per inch program controlled. (Save paper)
12. 40, 80 and 132 columns. Program controlled!
13. Quiet operation.

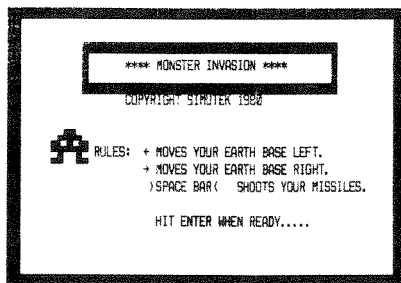
**NEW  
LOW  
PRICE**

**\$559.00**

This is the finest printer you can buy at any price for your TRS-80! Regular list price \$1,000.00! Tractor feed option \$150.00! Special Simutek customer price only — \$559.00! (Trt/feed — \$125.00) Save over \$400.00!

**CAT. #90001 OKIDATA Printer \$559.00**  
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SIMUTEK is coming out with an **OUTSTANDING WORD PROCESSING** program that utilizes upper and lower case as well as 3 character sizes and **GRAPHICS!** This program is a must for OKIDATA users! It has all the features of the popular **WORD PROCESSORS** as well! Price will be \$89.95. 30% off to buyers of SIMUTEK's OKIDATA printer! **NOTE:** This program will work only with OKIDATA printers! **OTHER PRINTERS** do not support graphics like this!



This printout done on the Okidata Printer.

**Call our Toll Free Number today! 800-528-1149.**

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Card No.	Exp. Date
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Signature \_\_\_\_\_

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Memory: \_\_\_\_\_

Operating System: \_\_\_\_\_

Are there any products you'd like to see us carry?

**Abstract**

Name \_\_\_\_\_

Address

City, State, Zip

Area Code	Phone
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# SIMUTEK COMPUTER PRODUCTS™

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FORM # 1111

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We accept cash, check, money orders, cashier's checks, VISA or MASTERCHARGE (C.O.D. OK SEE BELOW) Please include EXPIRATION DATE on all credit card orders.

## **Use our Toll Free Number or Send In Order Form Provided**

## **Foreign:**

U.S. dollars only or affiliated credit cards of Bank of America, VISA or MASTERCHARGE. No checks on foreign funds accepted! No foreign C.O.D. s! Not even Canada. All foreign orders call or write for shipping costs if not given in catalog.

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## **Shipping:**

Orders will be processed and shipped within 2-5 working days of receipt of order. Customers will be notified if any delay over 30 days. All orders shipped U.P.S. Trucking Lines, unless otherwise specified. No hardware C.O.D. shipments to a post office box.

**In order to expedite the shipping of your order please include the correct postage and handling with each order!**

## **Warranty:**

Simutek warrants all hardware sold to meet industry specifications. Any defective hardware will be replaced or purchase price refunded. Simutek limits the liability of its warranty to the replacement of the product and can assume no responsibility for the way the units are used. (*warranty 30 days*). Simutek Software is guaranteed to load. If software does not load, please return software for a free replacement.

## **Damage:**

Claims must be made within 10 days after receipt of equipment. All claims must include invoice number and date.

## **Sales Tax:**

Only Arizona residents need add 4% state sales tax. Out of state orders do not include tax.

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9 AM to 6 PM Monday-Saturday. All technical questions please call during this time as our answering service answers after hours. Technical questions please call: 602-886-5880.

Orders Are Accepted 24 Hours!

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Arizona Residents, please call 602-886-5880. You may pick up orders in Tucson. Technical questions please call 602-886-5880.

# Adventure!

## Adventure International Games by Scott Adams:

CAT. #901 Adventureland .....	\$15.95
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CAT. #903 Mission Impossible Adventure .....	\$15.95
CAT. #904 Voodoo Castle .....	\$15.95
CAT. #905 The Count .....	\$15.95
CAT. #906 Pyramid of Doom .....	\$15.95
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Above games require a minimum of 16K Level II.

## Free shipping on all Adventure Games!

Microsoft's Adventure on Disk. The original "Adventure", originally implemented on the PDP-10! The greatest adventure of all! Requires 32K and one disk drive.

CAT. #910 .....	\$39.95
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# More Great Software From: "The Bottom Shelf":

## Library 100:

100 great games covering most topics! Games, finance, simulations, education, languages! 4K Level II . . . a steal

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## Bus. Mail List:

Handles up to 150,000 Names! (*not a misprint!*) Prints labels, sorts by zip or alphabetical and lots more! Requires 32K and 1 disk.

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## Systems Doctor:

Complete diagnostics check of your memory, ROM and more! Works with Level II, 16K or 32K 1 disk system.

CAT. #9304 .....	Tape \$28.50	Disk \$38.50
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## Basic Tool Kit:

Aids serious programmers in debugging, listing variables, checking memory, merging, etc. Requires 16K Level II or 32K 1 Disk.

CAT. #9305 .....	Tape \$19.95	Disk \$29.95
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# "Instant Software"

## Level I or II 16K

### Business IV:

Inc.'s Bus. Cycle Analysis. Financial Analysis

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### Airflight Simulation:

Takeoff, land, full instrumentation.

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7 part package takes you thru it all.

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Be the ruler of an ancient town.

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### Household Accountant:

Budget, life insurance comp, etc.

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### TRS-80 Utility One:

Includes renumber and tape duplication.

**CAT. #9406** ..... \$12.95

### TRS-80 Utility Two:

Includes CFETCH and CWRITE. Save machine lang. & basic programs on same tape!

**CAT. #9407** ..... \$12.95

### Airmail Pilot:

Go back to the early days of flying! Fly your plane from Columbus to Chicago in the fastest possible time!

**CAT. #9408** ..... \$9.95

### Speed Read Course:

Increase your reading skills using this neat program.

**CAT. #9409** ..... \$9.95

### Night Flight:

Fly your plane against the dreaded Nazi ship the Bismarck! Flight Simulator!

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### Flight Path:

Mountain Pilot, O'Hare traffic controller, precision approach radar! Learn about flying. All Three.

**CAT. #9411** ..... \$12.95

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# Best Selling Books To Teach You About Your TRS-80!

## Your First Computer by Rodney Zaks

Learn about what your computer can and can't do. Explains the workings of your computer and answers the question: "What do I do now...?". A MUST for the first time user.

**CAT. #911** ..... \$9.95



### **Learning Level II Basic** by David Lien

This is the book you've been asking for. By the same author as Radio Shack's Level II manual! Now learn how to program using all great features of your Level II.

**CAT. #912** ..... **\$15.95**

### **The Basic Handbook** by David Lien

This book will explain the differences between the BASIC languages that run on a DEC or APPLE and give you cross references so you can make other programs run on your machine! A must for beginners and experts.

**CAT. #913** ..... **\$15.95**

### **TRS-80 Disk and Other Mysteries** by H.C. Pennington

Confused by the jargon disk owners use? This book will explain everything! Learn about TRSDOS, NEWDOS+, SUPER ZAP 3.0, VTOS, DEBUG and other "MYSTERIES" concerning Disk files and disk configurations.

**CAT. #8022** ..... **\$22.50**

### **Programming The Z80** by Rodney Zaks

Interested in learning Assembly language? This book is a must for the serious student and advanced user. Explains the workings of your TRS-80. They don't call it TRS-"80" for nothin!

**CAT. #914** ..... **\$15.95**

### **Programming The Z8000** by Richard Mateosian

You've learned Z80 assembly programming. What's NEW?? The Z8000, that's what. This new cpu can access 8 megabythes! Operating speed is an excess of 100 times faster than the Z80! Need we say more? Prepare yourself for the future!

**CAT. #915** ..... **\$16.95**

### **The CP/M Handbook (with MP/M)** by Rodney Zaks

You've heard about the famous CP/M disk operating system, now it's about time to learn what it can do! Yes people are using it on their TRS-80s! Keep up with latest DOS.

**CAT. #916** ..... **\$15.95**

Please add \$1.50 for postage and handling on all books.

No tax on out of state orders.

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## **Self Study Courses**

### **Each course includes audio cassette plus a special workbook**

These advanced study courses use audio tape and a special workbook to lead you through the maze of computer programming and computer theory. Invest in your future! The age of computers is upon us. Those of us that have the knowledge and know how, about computers, will make a lot of money in the coming lean years! ATTENTION VETERANS: Most of these courses are deductible through your veterans benefits!

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Learn the basics about computing. (3 hours)

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# TRS-80 Computers and Accessories at Discount Prices

All TRS-80 equipment bought through Simutek has the full Radio Shack warranty and may be serviced at Radio Shack dealers or stores across the country.

	RS Price	Our Price
CAT. #51056 16K Level II Computer w/numeric keypad .....	\$849.00	\$749.00
CAT. #51099 16K Level II Computer no keypad .....		\$679.00
CAT. #51054 4K Level II Computer .....	\$649.00	\$595.00
CAT. #51051 4K Level I Computer .....	\$499.00	\$469.00
CAT. #51140 0K Expansion Interface .....	\$299.00	\$269.00
CAT. #51141 16K Expansion Interface .....	\$448.00	\$348.00
CAT. #51142 32K Expansion Interface .....	\$597.00	\$445.00

Please add \$6.00 postage for above orders.

## Free shipping on all orders below

CAT. #51145 RS-232 Interface Board (requires E.I.) .....	\$ 99.95	\$ 89.00
CAT. # 2701 16K Memory for Keyboard P (Jumpers Inc.) .....	\$150.00	\$ 41.95
CAT. # 2702 16K Memory for Expansion Interface .....	\$150.00	\$ 39.95

(Both Memory Kits come with complete instructions. No Soldering Required)

## Simutek gives 10% Discount on all other Model I TRS-80 Equipment and Software!

## Simutek gives 6% Discount on all Model II TRS-80 Equipment and Software!

CAT. #52999 Micro-Sound: play music from your TRS-80! Comes with music playing program! Use Micro Sound to hear the effects and music from Simutek's software with sound as well as other vendors software with sound!!  
Only \$29.95

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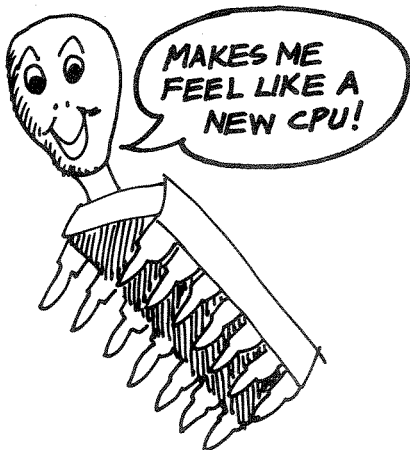
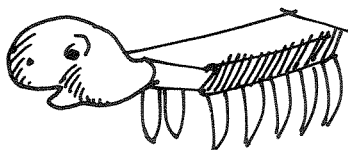
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# Micro-Speed TRS-80 Speed Up Modification ... The Best on the Market!

**Simutek's Micro-Speed increases computer operating speed by 50% without additional software. It's easy to install.**

- 1) Speeds up your TRS-80 from 1.77MHz to a hefty 2.66MHz!
- 2) Shuts down during disk or cassette I/O to end lost programs then turns back on automatically when disk or cassette I/O is finished. (*Provided, of course, it was on to begin with*)
- 3) Connects to keyboard L.E.D. and blinks when unit is operating. Stops blinking when turned off!
- 4) Comes with illustrated instructions.
- 5) Average person can install in 10-20 minutes!
- 6) All work is done in hardware! Absolutely no software drivers needed!
- 7) Operates with any TRS-80. (*Except Model II*) Works with TRSDOS, NEWDOS, VTOS or any other operating system or software. Works with RS-232 and telephone modems!
- 8) Comes completely assembled and ready to install. All wires are stripped. Switch installed! There are no hidden extra costs to you!
- 9) Money back guarantee!

**CAT #2000  
Micro-Speed Modification  
\$29.95**



**Call our Toll Free Number today! 800-528-1149.**  
Free Shipping!  
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# 16K Memory Chips For Your TRS-80!

**ONLY \$39.95!**

Don't spend \$150.00 at Radio Shack when you can install these prime, tested, high-speed, guaranteed, dynamic RAM Chips yourself for less than half that price!

## **Features:**

- 1) We guarantee all our RAM Chips!
- 2) Comes with clear, easy to understand, instructions!
- 3) Chips will work in keyboard or expansion interface! (RAM will also work with Apple and Exidy Computers!)

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**16K RAM Memory for the TRS-80  
Keyboard  
\$39.95!**

### **CAT #2703**

**DIP Shunts for TRS-80 Keyboard  
(required)  
\$2.00**

### **CAT #2702**

**16K RAM Memory for the TRS-80  
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\$39.95!**

### **CAT #2704**

**Apple/Exidy 16K Memory  
\$39.95**

## Simutek's Sensational Best Seller: Micro-Beep!

Micro-Beep is a simple sound device that operates off your aux plug from your cassette cable. Now you can have inexpensive easy to use sound for an excellent price!

Micro-Beep works with Basic using simple commands!

OUT255,4 = ON (\*BEEP\*)

OUT255,0 = OFF (SILENCE)

Ideal for business or personal applications! Also great for games and sound effects! Requires Level II or Disk Basic. Will work with 4K-48K! Comes completely assembled! (*requires transistor radio battery*)

### **CAT #2001**

**Micro-Beep Sound  
ONLY \$15.95**

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# Color Graphics For TRS-80! High Resolution Graphics For TRS-80.



**That's right folks! Now your TRS-80 computer can have all the high class and spectacular color of any of the competitors!**

Now you can generate multi-color graphics. Sharp two color alpha-numerics and 256 x 192 graphic resolution! That's almost 8 times the resolution of Radio Shack's!

You can have up to 8 colors at one time depending on the mode selected. Run your own "BASIC" programs to display colorful charts or diagrams as well as spectacular animation all on your color television!

#### **Features:**

- 1) Interfaces to your TRS-80 Level II or disk system or PMC-80
- 2) Provision for adding control to outside world with a MC6821 peripheral interface adaptor!
- 3) Includes an onboard "EGOS TM"- "ROM" operating system that gives you fantastic graphics control commands above and beyond Radio Shack's or the "competitions"!
- 4) Comes completely assembled ready to use on your TRS-80 Level II or TRS-80 disk system. All you need is a color TV!

#### **Here's What You Get:**

- 1) The Electric Crayon (TM) with 6K of display memory, (gives you the 256x192 graphics resolution)
- 2) Comprehensive users manual that gives concise description of all your added commands and color & high resolution graphics control!
- 3) Free Basic "Demo" programs using your color!
- 4) TRS-80 connecting cable
- 5) Sketchpads for 256x192 pixel density for doing your own programming

**NOTE:** Simutek will be coming out with some "super color" graphics games to run on your electric crayon soon! But don't wait! It's easy to write your own! In fact, a lot of your present programs can run like they are in color! Electric Crayon will not affect the operation of programs you already have!

**CAT #9990**

**Electric Crayon with above options**

**\$399.00**

**Don't settle for black & white when you can have color! Order your Electric Crayon today!**

Electric Crayon & Egos are TM's of Percom. TRS-80 is a TM of Tandy Corp.

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## **Speak & Spell Interface Connection Completely Assembled**

# **Your Computer Can Talk!**

...with the new Speak 2 Me 2, Speak & Spell Interface for the TRS-80!  
Not only is the Speak & Spell Voice, by Texas Instruments, easier to understand than Radio Shack's voice synthesizer, it's easier to use!

All this is made possible by the Speak 2 Me 2 Interface by Percom.

Normally you are required to purchase a Speak & Spell by Texas Instruments then install the interface yourself. This requires cutting traces, soldering in wires etc. Plainly not very exciting to most people!

Simutek has connected the Percom Interface to the Speak & Spell for you! All you need to do is plug it into your expansion interface or keyboard, *(no soldering or cutting)*, run the driver program and get perfectly clear human quality speech from your TRS-80 or PMC-80 basic programs! *(It does not sound like a computer!)*

This interface is ideal for business application where an operator needs "clear verbal instruction" or for educational, simulation or entertainment programs or whatever "you" need it for!

### **What Do You Get?**

- You get Speak 2 Me 2 from Percom
- Speak & Spell from Texas Instruments
- Cables and software drivers
- All completely assembled & tested and ready to run on your TRS-80 Level II or Disk System

**We believe this to be the best voice deal anywhere!**

### **CAT # 9900**

**Speak 2 Me 2 Interface plus Speak & Spell completely assembled, ready to run on the TRS-80 LV II computer or Disk System**  
**\$279.95**

### **CAT # 9901**

**Unassembled Speak 2 Me 2 Interface and software drivers with instructions *(Speak & Spell not included)***  
*(Requires soldering and trace cutting)*  
**\$79.95**

Speak 2 Me 2 is a trademark of Percom. Speak & Spell is a trademark of Texas Instruments. TRS-80 is a trademark of Radio Shack, a Tandy Corp. None of these companies are affiliated with Simutek.

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You've read about it in 80 Microcomputing, Personal Computing, Creative Computing, 80 U.S. Journal and others.

# **Now Simutek Is Selling It! TRS-80's New Twin Computer! The PMC-80!**

That's right, folks, Simutek is now selling the computer that drove 'em crazy at the San Diego computer fair! Radio Shack seems to have forgotten to buy the rights to LEVEL II BASIC! What does that mean? It means that the Personal Computing Company has made a computer that runs TRS-80 software, has the same commands as LEVEL II BASIC, the same GRAPHICS, the same ability to EXPAND (can use *RADIO SHACK'S EXPANSION INTERFACE* for added memory (48k), disk drives, RS232 and MODEMS etc.), can in fact do almost everything the TRS-80 can do at a much better price!

## **PMC-80 Can Use TRS-80 Software! PMC-80 Is Over \$250 Less Than The TRS-80!**

The PMC-80 computer has 16k of memory, a built-in cassette for storing and retrieving programs and a simple connector for using your own TV as a video monitor! There are provisions for expanding to 48k using Radio Shack's Expansion interface, and you may also use disk drives and all TRS-80 disk software! In fact the PMC-80 has everything the TRS-80 16k LEVEL II computer has except the Video monitor!

## **NO NONSENSE MONEY BACK GUARANTEE!**

If you are not satisfied with the PMC-80 for any reason, simply return the computer within 15 days for a complete refund!

THE PRICE for the complete unit, including 16k of memory, cassette interface, and MICROSOFTS LEVEL II BASIC is only \$579.00. That's a \$280.00 savings over Radio Shack's LEVEL II computer! Order today!

**CAT # 7700**  
**16K, LEVEL II, PMC-80 COMPUTER**  
**\$579.00**

**CAT # 7701**  
**Special Cable for Expansion Interface**  
**\$39.00**

PLEASE add \$6.00 for shipping and handling. (U.S. ONLY)

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