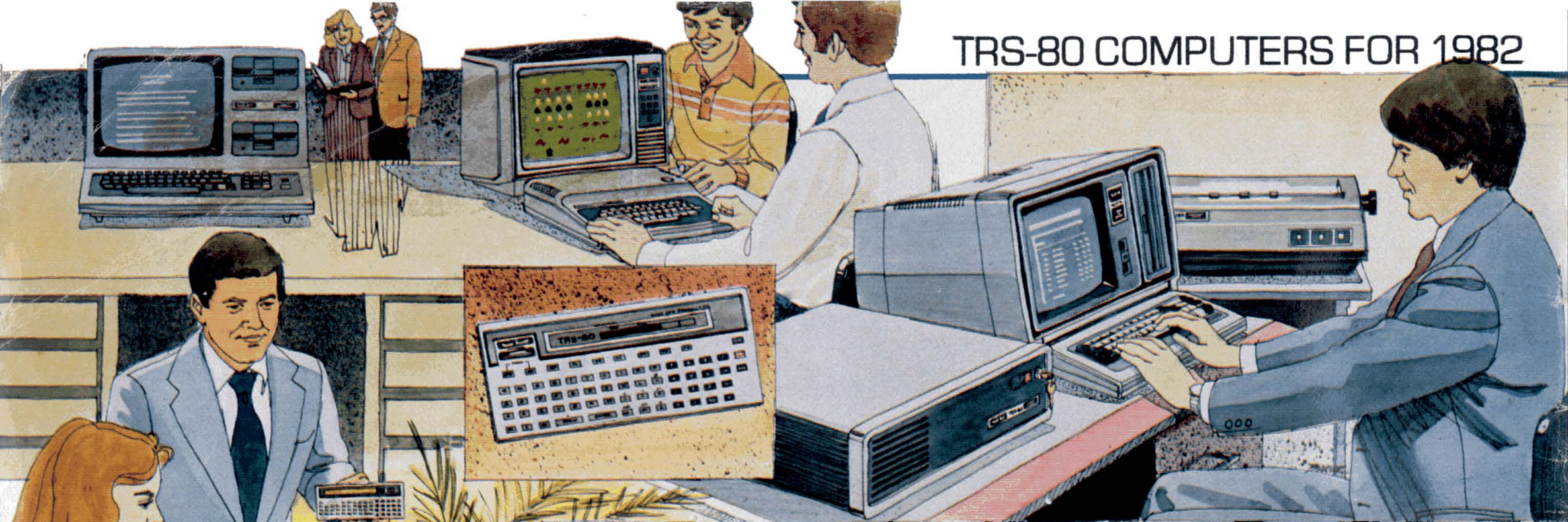


Radio Shack®

**Presenting TRS-80 for 1982
The Broadest Line of Microcomputers
in the World—and all from Radio Shack**



1982 TRS-80® MICROCOMPUTER CATALOG NO. RSC-7



THE EVER-EXPANDING WORLD OF TRS-80

Radio Shack started a revolution when we designed and built the first TRS-80 micro-computer. Today there are not one but six TRS-80 computers to choose from. No other manufacturer offers more solutions to today's problems than Radio Shack.

What a TRS-80 Can Do for You.

TRS-80 computers can be used to do billing, bookkeeping, payroll, inventory control, mailing lists and data analysis. They can sort a mailing list by name, address or other criteria, spot slowing inventory items, or simply catalog your stamp collections. They can become tutors, lab assistants, word processors or entertain with exciting games . . . virtually anything they are programmed to do.

It's Easy to Use a TRS-80.

You don't have to know a thing about computers to use a TRS-80. Depending on the model, every TRS-80 uses ready-to-run software on either cassette tape, a disk or a plug-in Program Pak.[™] Of course, you can also program your TRS-80 from the keyboard. And it's easy to write your own programs, because TRS-80 BASIC is an easy-to-learn, plain-English programming language.

The Ultimate TRS-80

Our new TRS-80 Model 16 was designed to be the most powerful and versatile TRS-80 ever. Its advanced technology lets you solve complex problems with ease — in less time than ever before. Model 16 can also function as a cost-effective multi-user office system, using one or two remote workstations, such as our new low-cost DT-1 Data Terminal. Model 16 can also function as a Model II, to use existing Model II software.

TRS-80 — The Expandable Computers

You can buy the TRS-80 you need to meet today's requirements with full confidence that it can expand to meet tomorrow's requirements as well. The new Pocket Computer Model PC-2 was designed with expansion capabilities that can satisfy a variety of applications. Our current TRS-80 Model II owners can enhance their computers, too, to include Model 16's 16-bit processor.

More Power for Your Dollar

Even our most powerful TRS-80 starts at under \$5,000. The reason is simple: economies of scale and our own manufacturing facilities make every TRS-80 model a tremendous value.

The Best Support

TRS-80 is the best supported microcomputer in the world! You can order TRS-80 equipment from over 8200 locations worldwide. In addition, we have over 200 Radio Shack Computer Centers staffed with experts who will help you with sales, service, advice and even classroom training. We have a monthly newsletter and a technical "hotline," too. And you'll find more programs and accessories for TRS-80 than any other micro available.

Our "Extended Service Plan" Agreements

Radio Shack has over 200 Service Centers nationwide staffed with highly trained techni-

cians. What's more, our "Extended Service Plan" agreements offer priority response to service needs, and protect against surprise repair bills.

Our Carry-In plan is the most affordable. Simply drop your equipment off at your local Radio Shack. All parts and labor costs are covered. In many areas our On-Site plan provides service at your location. During regular working hours, all parts, labor, mileage and expenses are covered. We also include installation and scheduled preventive maintenance. One of our Extended Service Agreements is available at a discount when purchased with your equipment.

For details, contact your local Radio Shack outlet. You'll discover just how easy it is to protect your system investment.

TRS-80 Goes to School

More TRS-80 systems are used for educational assistance than any other computer. Radio Shack supports educators with teacher guides, course materials, and a full line of educational software. Our National Bid Department at 400 Atrium, One Tandy Center, Fort Worth, Texas, 76102, will be happy to quote on bid invitations and RFQ's from schools.

Choose Number One — Radio Shack's TRS-80

TRS-80—THE WORLD'S MOST EXCITING LINE OF COMPUTERS AND COMPUTER ACCESSORIES

TRS-80 Model 16

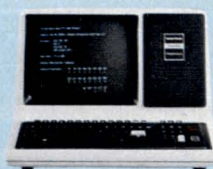
Pages 22-23



New! A technological breakthrough! Sixteen-bit technology, dual processors, multi-user operating system, and much more!

TRS-80 DT-1 Terminal

Page 24



New! A low-cost, full-featured terminal that's ideal for use with Model 16 and other host computers.

TRS-80 Pocket Computer PC-2

Pages 52-53



New! Now get desktop computer features in a compact unit you can take with you anywhere.

TRS-80 Color Computer

Pages 42-48



The home computer for the whole family with professional features. Color and sound. Attaches to any TV set.

TRS-80 Model II & Hard Disk

Pages 25-37



Our best small-business computer, backed with low-cost business software — from accounting to word processing.

TRS-80 Printers

Pages 38-41



Complete line of printers to fit every budget and every application — from fast line printers to graphics plotters.

TRS-80 Accessories & Books

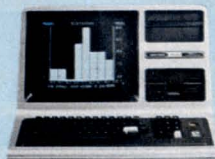
Pages 13-17



A complete line of TRS-80 accessories is at your nearby Radio Shack Computer Center, Store or participating Dealer.

TRS-80 Model III Computer

Pages 4-12



Completely self-contained desktop computer designed for both home and office use. Easily expandable, too.

TRS-80 VIDEOTEX

Pages 54-55



Turns your TV or computer into a two-way information retrieval system. Get the latest news, stock reports, more.

TRS-80 Educational Products

Pages 18-21



Radio Shack's Education Division is dedicated to providing professional support to learning institutions everywhere.

TRS-80 Pocket Computer

Pages 49-51



The TRS-80 for people on the move. A true computer the size of a calculator — but far more powerful.

Quantity Discounts

Software, Books and Accessories	6-11 of 1 item	12-49 of 1 item	50-499 of 1 item	500-Up of 1 item
	10%	15%	17%	20%

For discounts on diskettes and cassettes, see page 16. For quantity discounts on TRS-80 computers, write Director of Special Marketing, 400 Atrium, One Tandy Center, Fort Worth, Texas 76102.

THE AFFORDABLE "ALL IN ONE" PERSONAL COMPUTER

- Completely Self-Contained
- Built-In Printer Interface
- High Resolution 12" Monitor
- 65-Key Keyboard With 12-Key Datapad
- Easy Internal Expansion Capability To Grow With Your Needs— Personal or Professional

699⁰⁰
4K Level I
BASIC

999⁰⁰
16K Model III
BASIC



Model III is the compact, easy-to-use desktop computer designed for work or play!

Expansion covers simulate disk drives in non-disk units

Radio Shack's TRS-80 Model III is the new standard in low-cost personal computer "starter systems." Many features that you'd expect to pay "extra" for are standard on the Model III. It's a beautiful, functional system that's designed to fill a wide range of needs. And with our beginner's manual it's the perfect way to learn how to write your own programs.

Huge Software Library. Over 100 Radio Shack programs and over 2300 non-Radio Shack programs are available for the TRS-80, making for a wide selection of applications. There are many personal programs available, including entertainment, budget-keeping and stock portfolio analysis. Professionals can put Model III computing power on their desks for forecasting, engineering and word processing. And educators have discovered Model III to be a compact, inexpensive teaching aid, with a full line of

courseware available. All you need to store and load programs and data on inexpensive audio cassette tapes is an optional recorder and connecting cable.

Easily Expandable. Model III is hard to out-grow. You can start with our most affordable Model III, featuring the popular Level I "learner's" language and 4,000 characters (4K) of internal memory. Later you can expand to the very powerful MODEL III BASIC with 16K memory. There's room inside for up to 48K memory, an RS-232 interface board, plus one or two disk drives. Your local Radio Shack store, dealer or Computer Center can arrange for fast, easy installation of upgrade kits. Other options, like a digitizer, a printer, plotter, or a third and fourth disk drives (external) are ready to plug in anytime.

Model III, 4K RAM, LEVEL I BASIC.
26-1061 699.00
Model III, 16K RAM, Model III BASIC.
26-1062 999.00

Specifications

Microprocessor: Advanced Z-80 8-bit processor. Clock speed 2.03 MHz.

Keyboard: Full-size "typewriter" style. 65-key integral keyboard includes 12-key numeric pad for data entry.

Video Display: Memory mapped with high-resolution 12" monitor. Includes 96 text characters, 64 graphics characters and 96 "special" characters. Screen format for Level I and Model III BASIC is 64 characters by 16 lines. Model III BASIC also provides 32 characters by 16 lines of upper and lower case characters plus repeating keys.

Memory: Includes 4K ROM (Level I) or 14K ROM (Model III BASIC). RAM expandable internally to 48K.

Input/Output: Computer-controlled cassette interface standard 250 Baud for Level I. 500/1500 Baud selectable under Model III BASIC. Includes parallel printer interface and buffered Model III Bus. Provisions for adding 2 internal, plus 2 external double-density 5 1/4-inch disk drives and internal RS-232-C.

Power: Integral power supply; 105-130VAC, 60 Hz. U.L. listed.

Dimensions: 12 1/2 x 18 7/8 x 21 1/2"

TRS-80 LEVEL I AND MODEL III BASIC



Model III Accessories

CTR-80A Cassette Recorder

59⁹⁵

Ideal for loading and recording cassette programs and data. Includes cable. U.L. listed AC operation or 4 "C" batteries (not incl.).

26-1206 59.95
Connecting Cable only. 26-1207 5.95

Expansion Kits

Model III BASIC and 16K RAM Memory Kit.
26-1121 299.00*
16K RAM Memory Expansion Kit.
26-1102 99.00*
RS-232 Serial Communications Board.
(includes cable). 26-1148 99.00*

*Kit prices do not include price of required installation.

Level I BASIC For Model III

Radio Shack's TRS-80 Level I language is the easiest way for beginners to learn computer programming. It's a simplified version of the BASIC (Beginner's All-purpose Symbolic Instruction Code) programming language, and allows you to "talk" to the computer using simple English commands and statements. Even if you have no prior knowledge of computer operation or programming, the easy-to-understand 236-page manual (included) will have you programming the TRS-80 in no time. Level I includes most standard BASIC commands and features, a screen display of 16 lines of 64 upper-case characters, 48x128 video graphics, 250-baud cassette input/output rate, floating point arithmetic, 6-digit numeric accuracy, single dimension array, limited string variables, command abbreviations, and simplified error codes. Level I for Model III now includes printer commands LPRINT and LLIST. Level I is stored in 4K of Read-Only Memory so it's ready to use the instant you turn on your Model III.

Model III BASIC

Get more features, accuracy and computing power with our Model III BASIC in 14K ROM. Execution time is 30% faster than Level I's — and it adds features like repeating keys, a screen format of 16 lines of either 32 or 64 upper and lower case characters — with automatic scrolling, and a screen print command. There's dual-speed (500 and 1500-baud) cassette operation. You get multidimension arrays, definable cursor, comprehensive string variable handling, automatic line numbering, extensive editing commands, TRACE, PEEK and POKE, call-up of machine language routines, initialization of the optional RS-232 port, scroll protect, 23 specific error codes and even a special graphics character set. There's 16-digit numeric accuracy (intrinsic functions remain at 6-digit accuracy). Compressed storage format for video display text. Program lines, logical lines, and string variables may be up to 255 characters long. Includes comprehensive reference manual and 340-page beginner's tutorial manual.



"Starter" System

1196⁹⁵

Here's an ideal computer system for the beginner. It's perfect for hundreds of uses — from education to learning computer programming to entertainment. We've teamed the 4K Level I Model III (26-1061) with the Line Printer VII (26-1167) and Printer Cable (26-1401) to provide a listing of your programs, in addition to graphics output. Plus, the CTR-80A Cassette Recorder (26-1206) lets you store and retrieve your own written programs, or you can use our prepared software. And this system will easily expand as your skill and needs grow.



"Engineer" System

2557⁹⁵

For technical applications, the 16K Model III (26-1062) with powerful Model III BASIC is for you. This system is easily programmed, and offers advanced math features you'll need to cut technical computations down to size. The TRS-80 Graphics Plotter/Printer (26-1190), and Printer Cable (26-1401) will list your program or provide excellent high resolution diagrams, charts and graphs. Save your programs and data on cassette tapes, then re-enter them using the CTR-80A Cassette Recorder (26-1206). Expand to disk storage at any time.

TRS-80 MODEL III DESKTOP BUSINESS COMPUTER

THE PERSONAL COMPUTER FOR MANAGERS — SAVE TIME AND MONEY

Here is a complete business system (except for your choice of printers) designed to increase the productivity of every manager. Everything — including 48,000 character memory, two double-density disk drives with 368,000 characters of disk storage, typewriter-style keyboard and 12" upper and lower case video display — is built into the contemporary-styled one-piece cabinet. Also included are a 12-key datapad, repeating keys and printer port. Use the Model III to solve many business problems. Our VisiCalc® planning program allows fast and accurate "what if . . . ?" projections. With Profile III Plus, Model III retrieves

information and can print reports the way you want them. Our SuperSCRIPSIT™ program and an optional printer turns Model III into a time and labor-saving word processing system. Or use Time Manager™ to schedule appointments, prioritize work activities, and remind you of items needing follow-up. The RS-232C Serial Communications Interface is built in — just add a modem and cable to allow your Model III to communicate with other computers over the phone lines. Add one or two more external disk drives (shown at right) any time. Comes with the Disk BASIC and TRSDOS Operating System disk, owner's manual and comprehensive programming manual. U.L. listed.

48K 2-Disk Model III. 26-1066 2495.00
48K 1-Disk Model III. As above, but without RS-232 interface. 26-1065 1995.00
Model III RS-232 Cable. 26-1408 19.95

2-Disk
With RS-232
2495⁰⁰

1-Disk
Without RS-232
1995⁰⁰

Expand Your Model III With up to Four Disk Drives



Any Model III can easily be expanded with up to 4 drives for up to 736,000 bytes of formatted storage. Each of the diskette's 40 tracks consists of eighteen 256-byte double-density sectors. The first Disk Drive includes a diskette containing our powerful TRSDOS and Disk BASIC. It allows about 131K of user storage space. Certain system information and a directory are required on each diskette, leaving 175,000 bytes available on each of the second, third and fourth drives. The system diskette containing TRSDOS and Disk BASIC must always be in your first drive unit.

Disk Drive Kit 1. Includes TRSDOS and Disk BASIC. (Requires installation.) 26-1162 849.00
Disk Drive Kit 2. (Requires installation.) 26-1163 399.00
Disk Drive 3. (External) 6¼ x 3½ x 1¼" U.L. listed. 26-1164 499.00
Disk Drive 4. (External) U.L. listed. 26-1161 499.00
Extra DOS Diskette. 26-312 14.95



The "Extras" Are Built in!
 The \$2495 Model III Desktop Business Computer gives you all the features of our \$999 16K Model III, plus a lot more:

- 48K of Random Access Memory
- Two Built-In Double-Density Disk Drives for 368K Storage Capacity
- Built-In RS-232C Serial Communications Interface
- Our Powerful TRSDOS Operating System
- Disk BASIC — An Expanded Model III BASIC Programming Language
- Disk System Owner's Manual

TRS-80 MODEL III COMPUTER SYSTEMS FOR EVERY NEED



Two Disk Word Processing System

3532⁰⁰

Our SuperSCRIPSIT™ software (26-1590) and Model III two-disk Desktop Business Computer (26-1066) team up to give you low-cost, full-feature word processing. Letters and documents can be composed on the video screen — making editing easy. Next, save the completed text on disk. Then print all the correction-free “originals” you need with the high-quality dot-matrix Line Printer VIII (26-1168) at 23 lines per minute. The Printer Cable (26-1401) is included. Typing will never be the same!



One Disk Model III Manager's System

3472⁰⁰

The one-disk Desktop Business Computer (26-1065), combined with our Line Printer VI (26-1166) and Printer Cable (26-1401), make a manager's dream! Add VisiCalc® for financial planning & modeling, Profile III Plus for electronic filing, and SCRIPSIT to produce drafts of correspondence and reports. This deluxe system is complete with System Desk (26-1305) and Universal Printer Stand (26-1308), forming an ideal system for the individual manager's business office. The greatest time saver & productivity multiplier available!

Model III Disk System Operating Software

TRSDOS™ Operating System

Model III Desktop Business Computers include TRSDOS to provide the input/output functions needed to operate the disks. TRSDOS lets you take advantage of the vast file storage space and faster access times you get with disks. Model III TRSDOS includes many important additions to our popular Model I TRSDOS and contains features from our Model II TRSDOS. These include:

- **HELP** — “On-line” assistance for command syntax
- **ERROR** — Provides meaning of error codes
- **DO Files** — Allows automatic execution of previously-stored commands
- **DUAL** — Automatic printing of screen display
- **TAPE** — Transfers machine language tapes to disk
- **FREE** — Visual display of disk space allocation
- **TIME/DATE** — Keeps track and displays
- **DEBUG** — Aid for debugging in-memory machine language programs
- **Utilities** — Provides Copy, Backup, Patch and other “housekeeping” utilities

Disk BASIC

Disk BASIC provides a number of extensions to our ROM-based Model III BASIC, including many features for disk file access. Disk System Owner's Manual includes sample programs and full explanations. Features of Disk BASIC include:

- **CMD functions** — Examine Disk directory from Disk BASIC, protect programs from BREAK key, perform printer status test, return error display, sort strings, cross reference string variables and reserved words, delete spaces and remarks and more
- **Machine Language Options** — USR calls from BASIC to machine language routines
- **DEF FN** — Create your own functions for often-used routines
- **INSTR** — String search function for searching portions of a string
- **LINE INPUT** — Accept any keyboard character including commas and quote marks

INEXPENSIVE PROGRAMS FOR PERSONAL AND FAMILY USE

Exciting Computer Games — Educational and Entertaining

"Quick, Watson!"
You play the role of super-sleuth Sherlock Holmes; find the culprit from the computer's clues. (4K Level I, 16K Level II, Model III BASIC req'd.)
26-1802 4.95

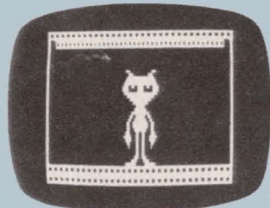


Haunted House. Solve the mysteries and get out alive. (4K Level I, 16K Level II or Model III BASIC req'd.) 26-1910 9.95

Backgammon/Blackjack. (16K Level II or Model III BASIC req'd.) 26-1803 4.95

Microchess. Three levels of difficulty. For beginners or advanced players. (4K Level I—Model I only, 16K Level II or Model III BASIC req'd.)
26-1901 19.95

Dancing Demon. The "Demon" tap dances to "Ain't She Sweet" with computer accompaniment — or create your own music and dance routine! (Audio amplifier, 16K Level II or Model III BASIC req'd.) 26-1911 9.95



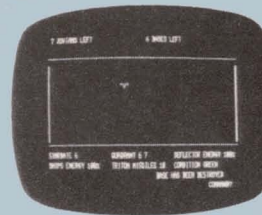
Bedlam. Escape from Insane Asylum. Face perils, guard dogs, more! (16K Level II or Model III BASIC req'd.) 26-1917 Avail. 4/15/82 14.95

Gammon Gambler.™ Backgammon with doubling cube for betting. Graphically displays board and pieces. Ten skill levels. (16K Level II or Model III BASIC req'd.) 26-1916 19.95

Micro Movie. Draw and play back animated "movies" on screen. (4K Level I, 16K Level II or Model III BASIC req'd.) 26-1903 9.95

To enjoy the programs shown on these two pages, just add an optional cassette recorder (see page 5).

Space Warp. Fast-action space adventure! Find and destroy aliens. (4K Level I, 16K Level II or Model III BASIC req'd.)
26-1912 14.95



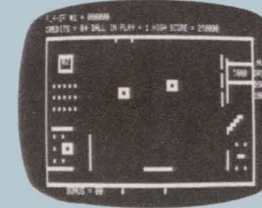
Flying Saucers. Shoot 'em down in "real time" with your laser cannon. (4K Level I, 16K Level II or Model III BASIC req'd.) 26-1905 9.95

Invasion Force. Destroy the aliens before they destroy you! (16K Level II or Model III BASIC req'd.) 26-1906 14.95

Checkers 80. Competition "forced jump" game with two levels of skill. (16K Level II or Model III BASIC req'd.) 26-1907 9.95

"Eliza" Artificial Intelligence. Discuss your problems. (4K Level I, 16K Level II or Model III BASIC req'd.) 26-1908 14.95

Paddle Pinball. Combines pinball field with fast paddle action. (Audio amplifier, 16K Level II or Model III BASIC req'd.)
26-1914 9.95



Pyramid. Explore the unknown passages. (16K Level II or Model III BASIC req'd.) 26-1909 14.95

Micro Marquee. Create 1-inch high letters that move up your TRS-80 screen. 13 characters per line. Great attention-getter for home or business use. (4K Level I, 16K Level II or Model III BASIC req'd.) 26-1904 4.95

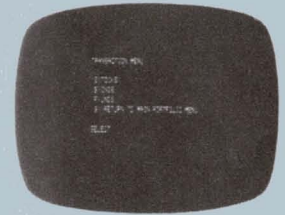
Astrology. Personal horoscopes. Produces chart with optional printer. (16K Level II or Model III BASIC req'd.) 26-1605 29.95

Raaka-Tu.™ Challenging jungle adventure. (16K Level II or Model III BASIC req'd.)
26-1915 14.95

Casino Games I. Craps, Keno, Slot Machine, Roulette, Wheel of Fortune, Baccarat. (16K Level II or Model III BASIC req'd.) 26-1806 19.95

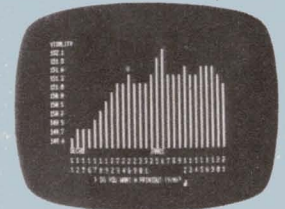
Personal Financial Programs

Cassette Portfolio. Keep close tabs on your investments. Includes transactions, summary, options, and index. Keeps records on 20 stocks, 10 bonds, 5 funds, and 10 options. (16K Level II or Model III BASIC req'd.) 26-1506 29.95



Budget Management. Up to 60 accounts with 25 expenses, 20 savings transactions, 50 checks per month. (16K Level II or Model III BASIC; or 32K, 2 Disk req'd.) 26-1603 19.95

Trendex Stock Trend Analysis. Provides trend change indications for short, medium and long term periods based on formulas used by professionals. Maintains trends for portfolio of your choice. Provides trend recognition aid, not investment counsel. (16K Level II or Model III BASIC; or 32K 2-Disk req'd.)
26-1509 49.95



New! Exciting Disk-Based Games

ZORK.™ Plunge into an exciting fantasy world where survival depends on wits and courage. Great adventure!
Model III Version. (32K Model III BASIC, 1-Disk req'd.) 26-1951 39.95
Model I Version. (32K Level II BASIC, 1-Disk req'd.) 26-1950 39.95
Monty™ **Plays Monopoly.**® A tough entertaining competitor used in conjunction with the famous board game! (32K Model III BASIC only, 1-Disk.) 26-1952 34.95
Monty™ **Plays Scrabble.**® A challenge to word jumblers! (32K Model III BASIC only, 1-Disk.) 26-1954 34.95

These programs available 5/1/82

READY-TO-RUN BUSINESS APPLICATIONS AND UTILITIES

Business Programs

Mailgram[®]. Send messages from your TRS-80 directly to a Post Office near your addressee via Western Union Electronic Mail Inc. for delivery in the next business day's mail. (RS-232, Coupler, and 16K Level II or Model III BASIC req'd.) 26-1564 39.95

Level II Cassette Payroll. Prints checks and register. Supports fixed-percentage state and city tax. 16K holds 15 employees, 32K holds 75. (16K Level II or Model III BASIC req'd.) 26-1504 49.95

Cassette Mailing List. 80 names per data file with 16K. 250 names with 32K. (16K Level II or Model III BASIC req'd.) 26-1503 19.95

In-Memory Information. Computerized card filing system. (16K Level II or Model III BASIC req'd.) 26-1508 19.95

Real Estate I. Stepped income analysis, compound interest, internal rate of return, resale price. (16K Level II or Model III BASIC req'd.) 26-1571 29.95

Real Estate II. Mortgage analysis. (16K Level II or Model III BASIC) 26-1572 29.95

Real Estate III. Detailed property income calculations, appreciation/depreciation estimates. (16K Level II or Model III BASIC req'd.) 26-1573 29.95

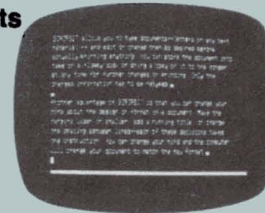
Real Estate IV. Ellwood analysis, overall capitalization rate, graphic analysis, sensitivity analysis. (16K Level II or Model III BASIC req'd.) 26-1574 29.95

Real Estate V. Straight line, declining balance, and sum of the year digits depreciation. (16K Level II or Model III BASIC req'd.) 26-1575 Available 5/30/82 29.95

Surveying. Convert field measurements into final dimensions and coordinates. (16K Level II or Model III BASIC req'd.) 26-1577 49.95

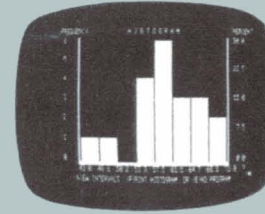
Prepare "Correction-Free" Letters and Other Documents

SCRIPSIT™ Word Processing. The cassette version of our popular word processing system! Compose and edit your text on the video display. Then use an optional printer to produce high-speed, correction-free documents. Save text on cassette for later revision or update. Includes centering, headings and "footers" and more! Lets you find or replace specified words, too. (16K Level II or Model III BASIC req'd.) 26-1505 39.95



Analyze Data and Forecast Trends

Advanced Statistical Analysis. This user-oriented data analysis system is ideally suited for applications in business, education, administration. Programs for tape and disk data files, random sample, descriptive statistics, histogram, frequency distribution, analysis of variance, T-test for matched pairs, correlation and linear regression, multiple linear regression, time series analysis, and Chi square analysis. (16K Level II or Model III BASIC, or 32K, 2 Disk req'd.) 26-1705 39.95



Especially for Programmers . . .

Model III BASIC Tape Instruction Course. Here's the perfect introduction to programming with Model III BASIC. Includes many helpful quizzes and carefully-chosen examples designed to reinforce what you learn. (Model III BASIC req'd.) 26-2015 24.95

Tiny Pascal. Great introduction to this structured programming language. Fixed point, non-array version of PASCAL. Includes sample programs. Model III Version. (16K Model III BASIC req'd.) 26-2020 Available 5/15/82 19.95
Model I Version. (16K Level II BASIC req'd.) 26-2009 19.95

DEBUG. For entering, testing and debugging machine language programs. Allows modifications to RAM and registers. Includes single step execution of programs, breakpoint interruption of execution. (4K Level I, 16K Level II or Model III BASIC req'd.) 26-2000 19.95

Series I Editor/Assembler. For assembly language programming. Includes text editor and manual with Z-80 instruction set information. (16K Level I, 16K Level II or Model III BASIC req'd.) 26-2011 29.95

Double Precision Subroutines. Obtain 15 digit accuracy with sine, cosine, arctangent, natural logarithm, exponential, and square root functions. (16K Level II or Model III BASIC req'd.) 26-1704 9.95

Cross Reference Utility. Build a cross reference table for any BASIC program. Listing by variable, reserved word, or line number. (16K Level II or Model III BASIC req'd.) 26-2008 14.95

Find What You're After in the TRS-80 Applications Sourcebook

Over 2300 Program Listings

For Only **2⁹⁵**

Includes Business, Education, Specific Industry/Profession, Statistics/Math, Home and Games Programs



A listing of TRS-80 applications by a variety of vendors, with descriptions, prices. We haven't seen or tested the programs so we cannot be responsible for any problems. This is "the" place to look for the software you need! 26-2114 2.95

TRS-80 MANAGER SERIES

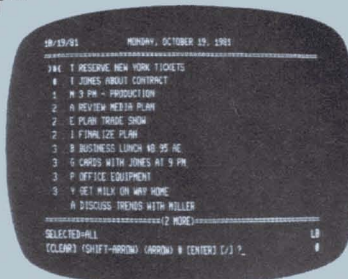
Manage Your Business Day!

- Keep Track of Priorities and Expenses
- Manage Information About People, Companies, Customers and Prospects
- Create Time, Task and Resource Charts
- Transfer Information Between Programs
- No Computer Programming Required

These programs are an invaluable aid for any manager. They increase your productivity by helping to plan, organize, schedule and record your business and personal affairs. And once you've learned to use one program in our management series, you can easily add them all. Each one can "talk" to the others—so you can enter dates and schedules in one and transfer the information to another. Printer is optional. All require a 48K 2-Disk Model III or Model I.

Time Manager™

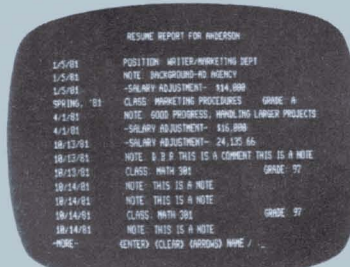
- Manage Your Time and Appointments
- Track Job Schedules And Costs



A personal calendar/reminder and electronic notebook. Helps you organize your time and business information, and creates permanent records. Daily agenda plus a "to do" list that transfers uncompleted items to the next day. Searches for appointments or information on events or phone calls by keyword and/or category. Accounting features total hours worked, expenses, and more. 26-1582 99.95

Personnel Manager™

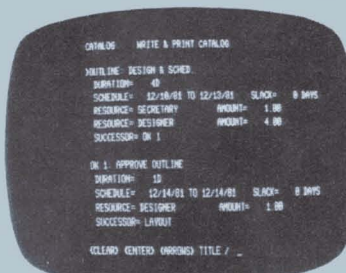
- Keep Track Of Your Most Important Asset — People



Organizes information on employees—including their schedules and salaries—business contacts, or clients. Files can be searched for a specific person, company, product or service by pre-defined business card, telephone, address, and more—even user-defined categories. Data can be organized to evaluate vendors, as well as employee performance. Prepares telephone, address, and mailing lists selected by category. 26-1581 99.95

Project Manager™

- Evaluate And Schedule Your Projects
- Spot Overextended Resources



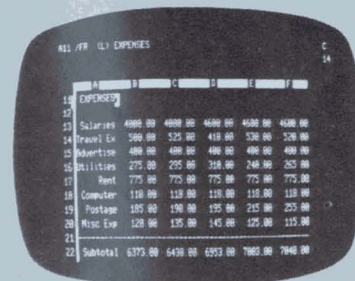
Graphically displays a project in several ways depending on the most important goal. It can be viewed in terms of time, sequence, personnel, materials, or resources. The effect each task has on the final completion date can be illustrated, and if you alter a project, the effect of any changes can be shown. Provides TIME, TASK, PERT, and GHANT charts. Important dates will appear on Time Manager's calendar. 26-1580 Avail. 6/15/82 99.95

PLANNING & FORECASTING

Enhanced Model III VisiCalc®

Ideal for . . .

- Budgeting
- Sales Projections
- Job Costing
- Scheduling
- Pricing
- Engineering Designs



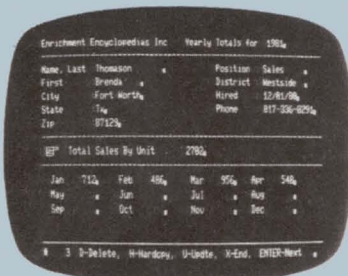
A versatile management and engineering planning tool. VisiCalc is an "electronic" columnar pad. You define the formulas, enter the figures, and VisiCalc performs all calculations automatically. Change any value or formula, and VisiCalc instantly updates every related number! You can view countless "what if . . ." situations in seconds. And you can save your "model" on disk for use or revision later. The new entry editor speeds worksheet preparation by allowing you to modify formulas and labels without re-entering them. Now includes logical and comparison operators to perform testing and branching. Optional printer allows you to print any portion of your worksheet. (48K 1-Disk). 26-1569 199.00

Model I VisiCalc. Similar to above, but without enhancements. (32K 1-Disk). 26-1566 99.95

Desktop/Plan™ — 80. A sophisticated financial planning program that guides you from model development to high-quality report. Consolidates sub-models into one summary model, plots points for line charts, and automatically formats printed reports. Includes built-in functions and "custom calculations." Interfaces with VisiCalc files. (48K 1-Disk — Model III only). 26-1594 199.00

DATA BASE MANAGEMENT

- Our Most Powerful Model III "Electronic" Filing Program
- Includes Most Features of Our Popular Model II Program



Profile III Plus. This versatile program offers the flexibility and performance to meet needs ranging from "data bases" of customers and accounts to prices and parts. You decide! Stores up to 2400 records on a data disk (depending on record size). You can specify records of up to 1020 characters in length, and create as many as 99 fields per record. Tailor up to five different data entry screens to match your own forms. Indexing allows high speed access using up to 36 fields as search criteria. A math package performs arithmetic operations and updates other fields. Prints up to five different user-defined reports and mailing label formats per file, selecting by up to 16 criteria at a time (requires printer). You can create custom "operator" menus, and pass records to VisiCalc and SuperSCRIPSIT on Model III. (48K 1-Disk — Model III only. 2-Disk recommended). 26-1592 Avail. 5/15/82 199.00

Profile. Set up a data entry screen and report — in just seconds! Ideal when changes are infrequent. Files can interact with simple BASIC programs. Printer optional. (32K 1-Disk). 26-1562 79.95

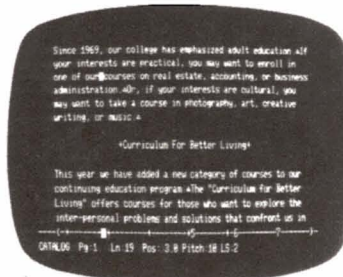
Versatile. Finds facts on file that match "keywords" in your question. A "global search" even finds the most similar information when there's not an exact match. (32K 1-Disk). 26-1604 29.95

Microfiles. Designed for maximum flexibility and speed. Information can be stored, sorted, retrieved, displayed, and printed quickly with simple sentences and single-key instructions. Printer optional. (32K 1-Disk). 26-1565 99.95

TRS-80 SCRIPSIT™ WORD PROCESSING

New! SuperSCRIPSIT™

Our Most Powerful Word Processing Program For Models I And III!



All-new SuperSCRIPSIT is ideal for preparing memos, letters, and manuscripts. Your text is written and edited right on the video screen! Then, when it's just the way you want, you can print as many "correction-free" originals as you need. Frequently used reports and forms can be stored on diskette for use again and again — and updated at any time.

New features include true proportional-spaced printing, and multiple line spacing (including half-space) and paragraph formats within a document. Document orientation means a document can be as large as available disk space and there is no need to repaginate. You also get underlining, double underline, boldface, super and subscript, multiple column printing, a "help" facility, and more.

Ten user-defined keys can each recall commands of up to 127 pre-defined keystrokes. Frequently-used words or phrases can be assigned a user key. Whenever that key is pressed, the word or phrase is displayed instantly!

Create "personalized" form letters using SuperSCRIPSIT or by interfacing the program with Profile III Plus (Model III only). Includes self-paced training course on audio cassettes, with training manual, reference manual and reference card. Requires printer. (48K 1-Disk Model III or 48K 2-Disk Model I). 26-1590 Avail. 4/30/82 199.00

New! SCRIPSIT Spelling Dictionary Automatically Checks for Misspelled Words

Turns your TRS-80 into a fast, efficient "proof-reader"! The SCRIPSIT Dictionary quickly checks your text for spelling — highlighting errors and allowing you to correct the word. Contains over 73,000 commonly used words (34,000 with Model I). Add words of your own, too. For any text material prepared with SCRIPSIT, SuperSCRIPSIT, or ASCII files. (32K 2-Disk Model I or III. Model I requires 3 drives with SuperSCRIPSIT only). 26-1591 149.00

SCRIPSIT™ Word Processing

Let's you enter, and easily correct and edit letters, memos, reports and other documents, then print your text "correction-free"! All prompting messages are in plain language, so SCRIPSIT is easy to learn and use. It's a snap to edit, insert, move or delete any material. A "global search" mode lets you search for a specific word or phrase and replace every occurrence with a different one. Features include reformatting, hyphenation, automatic page numbering, and more. Complete with our excellent training manual, audio cassette course, and quick reference card. Requires printer. (32K 1-Disk). 26-1563 99.95

Complete Word Processing System



This TRS-80 Model III is ideal for SCRIPSIT word processing. Includes 48K 1-Disk Model III (26-1065), dot-matrix Line Printer VIII (26-1168), cable (26-1401), and SCRIPSIT program (26-1563). Use for other applications, too — just add software. **2932⁹⁵**

DISK SOFTWARE FOR TRS-80 MODEL I AND III*

Accounting Programs for Business

General Ledger I. For small businesses with up to 100 accounts. 240 entries per session, up to 1830 per month. (32K 2-Disk). 26-1552 99.95

Inventory Control I. Retail inventory record keeping and control for up to 1000 items. Tracks vendors, order dates, backorders, out-of-stock and on-order items. (32K 2-Disk). 26-1553 99.95

Accounts Payable. Prints checks, register, cash flow analysis, and activity summary. Handles 75 vendors with 1000 transactions, or 200 vendors with 800 transactions per month. Easy to set up. (32K 2-Disk). 26-1554 149.95

Accounts Receivable. Monthly statements, aging reports, activity analysis, and automatic totals for posting to your company's General Ledger. Easy access to customer accounts for updating, deleting or printing. Advertising message option on billing statements. Handles 300 customers with 1000 transactions, or 100 customers with 2000 transactions per month. (32K 2-Disk). 26-1555 149.95

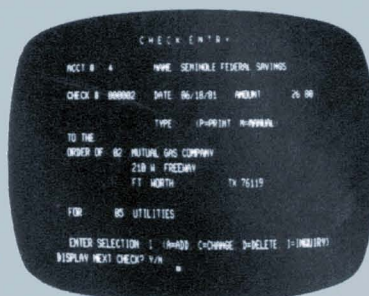
Disk Payroll. Handles up to 100 employees, with up to 14 user-defined earnings and deductions categories. Prints payroll checks with W-2 forms for any state. (32K 2-Disk). 26-1556 199.95

Business Mailing List. Prints two-across labels. Features fast sort in Zip Code or alphabetical order. Create selected mailing lists by specifying up to 8 categories. Handles 990 names with 32K 2-Disk system, or 2970 names with 48K 4-Disk system. (32K 2-Disk minimum). 26-1558 99.95

Manufacturing Inventory Control. Handles up to 1900 raw materials, up to 20 finished goods per diskette. Prints bill of materials, material requirements, pull sheets, finished goods list, inventory worksheets, "where used" reports, and more. (32K 2-Disk). 26-1559 199.95

New "Simplified" Bookkeeping System

- **Easy-to-Use For Check Recording and Check Writing**
- **Prints Check Register and Expense Summaries**
- **Reconciles Statements**
- **Prepares Checks Or Use for Bank Reconciliation/ Expense Records**



Checkwriter-80.™ Replace your pegboard bookkeeping system with our "computerized bookkeeper." Provides you with a check writer and register, plus an expense tracking and bank reconciliation system that's ideal for small business bookkeeping. It's as easy to use as filling out a check or deposit slip, yet you get all the speed and accuracy of the computer. Handles up to nine banks or nine different accounts for one bank, 75 payees, 30 expense categories (including a miscellaneous description category), and 2500 transactions (checks and deposits). Even enter handwritten checks and maintain year-to-date expense totals, too. Bank reconciliation allows you to record information from your bank statement and clear each check or deposit cleared by the bank. Displays deposits and checks recorded in the system. Once entered into Checkwriter-80, payee names and addresses are printed on your checks automatically. Also prints check register reports, bank lists, payee lists and expense list. Period closing lets you update the actual bank balance for each account. Lets you "clear" appropriate totals and reset the system for the next period. Requires printer. (48K 2-Disk — Model III only). 26-1584 99.95

Software for Specific Professional Applications

Medical Office System. For a doctor's office or small clinic. Prints monthly statements, insurance forms, daily recap, transaction review, aged accounts receivable, and more. Up to 3960 patient accounts with Model I, 4200 with Model III. Up to 200 different procedures and diagnoses. (48K 4-Disk). 26-1568 299.00

Standard & Poor's STOCKPAK™ System. Helps you review a portfolio of up to 100 securities — can assist in preparing tax returns, tracking dividend payments. Sample data base includes 900 NYSE,

AMEX, and OTC stocks. Monthly updates of the data base on diskettes are available on an optional annual subscription basis from Standard and Poor's. (32K 2-Disk). 26-1507 49.95

Real Estate Finance. Includes volumes 1-4 of our Real Estate Series (see page 9), plus Decision Tree and Time Trend analysis. Monte Carlo analysis for income and expense simulation. "Building development" examines site and labor costs, permits income feasibility studies. (48K 2-Disk — Model III only). 26-1579 Available 6/15/82 99.95

Languages and Utilities

COBOL. Radio Shack's COBOL (COmmon Business Oriented Language) is based on the ANSI '74 COBOL standard, and provides a single-step compiler for fast execution, multi-key ISAM for quick data access, COBOL editor for creating and changing source programs, and a DEBUG for program development and testing. Includes System User's Guide, COBOL Editor Guide, and an extensive COBOL Reference Manual. (48K 2-Disk). 26-2203 199.00

Compiler BASIC. Lets you program in familiar BASIC, and gain powerful business extensions. Advanced features include single-key ISAM to help organize and retrieve data, cross-reference and interactive DEBUG to speed program development, easy calls to assembly language or other object programs. (NOTE: Compiler BASIC is intended for program development and not for conversion of existing software. It's not compatible with Level II or Model III BASIC programs.) Includes Compiler and Run-Time Diskettes, plus detailed 420-page reference manual. (48K 2-Disk).

26-2204 149.00

Run-Time Diskettes. For those who intend to sell software developed on our Compilers.

Run-Time Diskette	For TRS-80	Cat. No	Each
COBOL	Model I	22-2206	30.00
COBOL	Model III	26-2207	30.00
Compiler BASIC	Model I	26-2208	20.00
Compiler BASIC	Model III	26-2209	20.00

FORTRAN. Includes compiler, editor, linking loader, library. (48K 2-Disk — Model III only). 26-2200 99.95
26-2201. (32K 2-Disk — Model I only) 99.95

Editor/Assembler, Series I. For assembly language programming. Includes editor/ assembler, sample programs, and extensive manual — including Z-80 mnemonics. (32K 1-Disk). 26-2013 34.95

BASIC Programming Courses

Model III BASIC Course. Eight self-paced lessons on diskettes that teach you to program in Model III BASIC. Introduces variables, arrays, logical and arithmetic commands, strings, subroutines, and more. (32K 2-Disk). 26-2010 29.95

Model III Disk Course. Four self-paced lessons on diskettes that cover Disk BASIC and TRSDOS, including sequential and random access files with examples of their use. (32K 2-Disk). 26-2014 29.95

NEW! DOUBLE-DENSITY DISK KIT FOR MODEL I — \$149.95

- Increases the Disk Storage Capacity of Your Model I
- Adds the Advanced Features of Model III TRSDOS to Your Model I
- Installation Available Through Radio Shack
- For 35 or 40-Track Drives

TRS-80 Model I Double-Density Disk Kit. Expand the disk capacity of your Model I and add the advanced features of Model III's TRSDOS operating system. After Radio Shack has installed the kit in your Expansion Interface, your existing Model I software may still be used "as is" in single density mode. With the all new Double-Density Disk Operating System, use advanced features and gain increased disk capacity with your current disk drives. With 35-track drives, disk capacity per diskette is increased from 84,000 to 152,000 characters after normal system information. With a 40-track drive, formatted disk capacity is a full 184,000 characters, 737,000 characters with four 40-track drives. COPY moves files from single-density to double-density format or from double-density to single-density. In addition to



expanding TRSDOS to include new features (see table below), we have added most of Model III's BASIC enhancements as well. This includes full support for variable logical record lengths, and a series of CMD functions that sort strings, cross-reference string variables, delete spaces, and much more. Since our Double-Density TRSDOS contains many new features, modification of some existing software may be required for use with double density. Even though most BASIC programs and many machine-language programs will run "as is" in Double-Density TRSDOS, Radio Shack applications software is not available or supported for double density operation. Kit includes operating system manual, adapter and Double-Density TRSDOS operating system diskette. Price does not include required installation. 26-1143 Available 5/1/82 149.95

Advanced Features Available With Double Density Disk Kit

COMMANDS	DESCRIPTION
BLINK	Turns Blinking Cursor ON/OFF
BUILD/DO	Automatic Command Files
CLEAR	Clears User Memory
CLS	Clears Screen
CONFIG	Specify Drive Types
CREATE	Pre-Allocated Files
DUAL	Output to Video & Printer
ERASE	For File Confidentiality
ERROR	Descriptive Error Messages
FILFIX	Modifies Disk Files
FREE	Includes Space Map

COMMANDS	DESCRIPTION
HELP	Syntax of Commands
PATCH	Alter Disk Files
PURGE	Delete Multiple Files
RELO	Alter Program Load Address
SETCOM	Set RS232 Values
SPOOL	In-Memory Print Spooler
TAPE	Tape/Disk/RAM Transfer
UNKILL	Restore Killed File
WP	Write Protect a Disk
	Repeating Keys

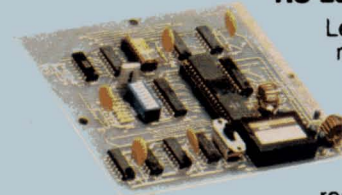
Upgrade your Model I With Memory Expansions and More!

It's easy to add to your TRS-80 Model I. Just bring in your keyboard and we'll take care of the rest. (Prices below are for parts only — required installation is extra.)

Lower Case Kit. Add lower case to your Model I. "Driver" tape included. NOTE: Some non-Radio Shack software will not run with this kit installed.

Not intended for use with programs written in upper case format.
 26-1104 59.00
Level I to II ROM Upgrade.
 26-1120 150.00
16K RAM and Keypad.
 26-1101 180.00
Keypad Alone. 26-1103 79.00

RS-232C Interface Board



Let your Model I communicate with the "outside world"! Mounts inside Expansion Interface and lets you connect modems, card readers, serial line printers and more. Includes manual, cable and cassette program for using TRS-80 as a terminal.

26-1145 99.00
RS-232C Communications Software. (16K, Level II; Model III BASIC; or 32K 1-Disk.) 26-1149 39.95

Buy Now for Use With Double Density!



Expansion Interface*

Acts as a base for the video monitor and becomes the expansion "hub" for your Model I system. Allows you to add up to 32K of additional RAM and 4 Mini-Disk drives, a printer, dual cassette recorders, and RS-232C board for communications. 4 1/2 x 16 1/2 x 8" Level II and 16K RAM required. U.L. listed AC operation.

Expansion Interface, 0 RAM.
 26-1140 299.00
E/I, 16K RAM.
 26-1141 398.00
E/I, 32K RAM.
 26-1142 497.00
16K RAM E/I Memory Kit. Requires installation, not included. 26-1102 99.00

Model I Mini Disk Drives

Connect up to four drives through the Expansion Interface for 350K bytes of storage! First drive includes TRSDOS and Disk BASIC on diskette and a manual. 6 1/2 x 3 1/2 x 13 1/4" U.L. listed.



Mini Disk Drive 1* 26-1160 499.00
Drives 2, 3 or 4. 26-1161 Each 499.00
TRSDOS/Disk BASIC Disk — Model I only.
 26-310 14.95

*Sale subject to stock availability.

GENUINE TRS-80 ACCESSORIES

TRS-80 Data Communications Systems



As Low as
149⁰⁰

Access information networks and transfer data and programs over phone lines.

A Telephone Interface II. To use, just dial the desired phone number and place telephone handset on the interface. FCC registered. 26-1171 199.00

Specifications. Baud Rate: Up to 300. Mode: Originate and answer, full or half duplex. Receive Sensitivity: -45 dBm. Power Requirement: U.L. listed 120-volt AC power module. Size: 2 $\frac{3}{8}$ x4 $\frac{3}{4}$ x10 $\frac{1}{4}$ "

B Direct-Connect Modem I. An originate/answer modem for direct connection to the telephone line. Provides full-duplex operation with RS-232 equipped TRS-80 computers. Optional software and cable (below) permits half-duplex operation on Model I systems without an Expansion Interface or RS-232. LED indicators. FCC registered. 26-1172 149.00

Specifications. Baud Rate: 300. Modes: Compatible Bell 103 Ans./Orig. modes. Full Duplex. Sensitivity: -43 dBm (orig.); -48 dBm (ans.). Connectors: DB25 and 4-pin DIN. Power Requirement: U.L. listed 120-volt AC power module. Size: 2x6 $\frac{1}{2}$ x7 $\frac{1}{2}$ " (Not for multi-line use without controller.)

Cassette Software. For use with Model I systems without Expansion Interface or RS-232. 26-1139 9.95

Cable. Required by above software. 26-3009 4.95

C Direct-Connect Modem II. A fully-programmable direct-connect modem with Auto-Dial and Auto-Answer capability. Automatically dials or answers the phone, receives and transmits data and even hangs up the phone. Remote and local test modes. LED indicators for On, Off-Hook, Terminal Ready, Carrier Detect, Transmit Data and Receive Data. FCC registered. 26-1173 249.00

Specifications. Baud Rate: 300. Mode: Originate and answer, full or half duplex. Receive Sensitivity: -40 dBm. Dial System: Rotary or tone. Power Requirement: U.L. listed 120-volt AC power module. Size: 2x6 $\frac{1}{2}$ x7 $\frac{1}{2}$ " (Not for multi-line use without controller.)

1 to 5 Line Multi-Line Controller. Allows direct-connect modems to be used with multi-line phones. 43-233 39.95

Plug 'n Power™ Controller — 24 Hour Light and Appliance Control

39⁹⁵

Set Up a Computerized Remote Control System

Control up to 256 lights and appliances around home or office with Models I, III or Color Computer via cassette port and existing AC wiring with plug-in Remote Modules (sold separately). Complete software included. 1 $\frac{1}{2}$ x4 $\frac{1}{2}$ x4 $\frac{1}{4}$ " U.L. listed. 26-1182 39.95



Appliance Module. U.L. listed. 61-2681	16.99
Lamp Module. U.L. listed. 61-2682	16.99
Wall Switch Module. U.L. listed. 61-2683	17.99
Universal Appliance Module. U.L. listed. 61-2684	17.99
Wall Outlet Module. U.L. listed. 61-2685	21.95

Furniture and Dust Covers for Your TRS-80

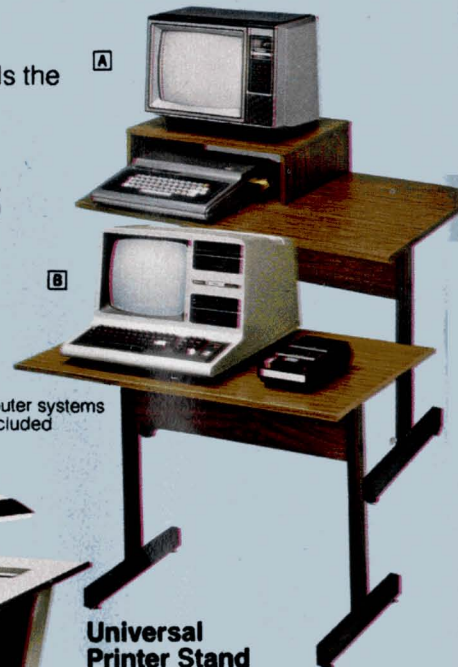
Handsome Space-Saver Desk

Low-priced desk for home or school. Holds the Color Computer, with the shelf used to support a video monitor, as in **A**. With the shelf removed, there's plenty of room for your Model III, as in **B**. Unassembled. 27x32 $\frac{3}{4}$ x23 $\frac{3}{4}$ " 26-1307 65.00

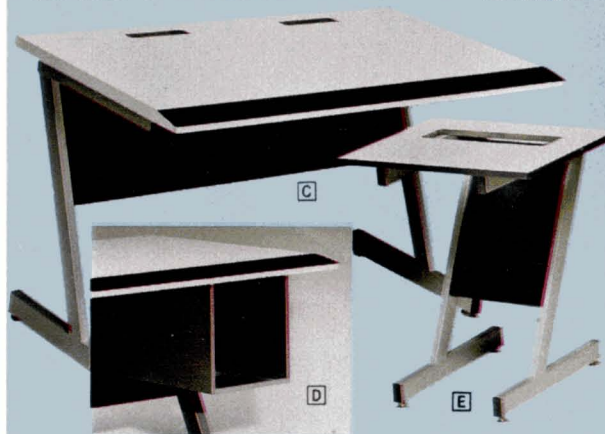
TRS-80 System Desk

C Model III System Desk. 27x48x27" Unassembled. 26-1305 179.00

D Model III Disk Bay. Attaches underneath Model III System Desk and holds two external disk drives. 26-1306 29.00



Computer systems not included



Universal Printer Stand

E This all-purpose stand matches the System Desk. Includes a slotted top for bottom-feed printers. Sturdy, easy to assemble. 27x23 $\frac{1}{2}$ x19" 26-1308 99.00

Dust Covers to Protect Your System Components



It's smart to protect your investment against dust, dirt and surface scratches with covers tailored to fit "like a glove." All are constructed of durable vinyl with reinforced stitching on all seams for added strength — and long life.

For Model II Computer. 26-4051 9.95

For Model II / 16 Computers. 26-4051 9.95

For Color Computer. 26-3006 4.95

For External Disk Drives. 26-502 Pkg. of 2/5.95

For CTR-80 Cassette Recorder. 26-513 4.95

For Line Printer II or IV. 26-504 4.95

For Line Printer III or V. 26-505 5.95

For Line Printer VI. 26-507 5.95

For Daisy Wheel II Printer. 26-508 5.95

For Daisy Wheel II & Tractor. 26-516 7.95

For Line Printer VII. 26-512 4.95

For Line Printer VIII. 26-514 4.95



COMPLETE SELECTION OF COMPUTER CABLES

Cat. No.	Description	Function	Each
26-1401	A 34-pin edge card to 36-pin plug	Model I/III to std. parallel printer	39.00
26-4401	B 34-pin header to 36-pin plug	Model II/16 to std. parallel printer	39.00
26-1411	C Active parallel interface, edge card connectors	Model I bus to std. parallel printer	59.95
26-1408	D Male DB25 to DB25 5' flat cable	Model III RS-232C serial interface	19.95
26-4403	E Male DB25 to DB25 5' flat cable and terminator	Model II/16 RS-232C serial interface	39.95
26-3014	F 4-pin DIN to DB25	Color Computer to RS-232C interface	19.95
26-3020	G 4-pin DIN to 4-pin DIN	Color Computer serial interface	4.95
26-3009	H 5-pin DIN to 4-pin DIN	Model I cassette special serial interface	4.95
26-1207	I 5-pin DIN to Audio (3 plugs)	Model I, III, Color Computer CPU to audio cassette	5.95



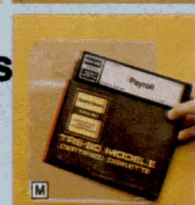
Store and Protect Tapes and Diskettes

J Computer Cassette Holder. Fits 3-ring binder and holds six cassettes. Store up to five pages in the binder, below.
26-1311 Pkg. 2/4.95

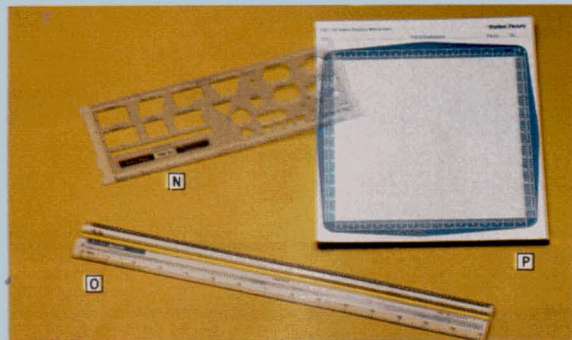
K Universal Data Binder. 3-ring binder for cassette pages, diskette envelopes, and 8 1/2 x 11" documents. Matches TRS-80 deluxe binders. 26-1310 5.95

L 5 1/2" Diskette Holders. Ideal for protection and storage. Store 20 diskettes. Punched to fit 3-ring binders. Clear vinyl. 26-510 Pkg. 10/7.95

M 8" Diskette Holders. Same as above, but for ten 8" diskettes. 26-4907 Pkg. 10/7.95



Your Work Goes Easier With Radio Shack's Support!



N Logic Flowchart Template. ANSI flowchart symbols for fast, concise program development. Helps reduce logic errors and spot design improvements. 1/16" layout grid. Clear plastic. 4x10" 26-1312 ... 3.95

O Printviewer. Magnifies and highlights a single line on printouts. Reduces errors, increases reading speed. Clear plastic with yellow "line window." Includes 10, 12 cpi scales. 1 1/2 x 15" 26-1313 ... 2.95

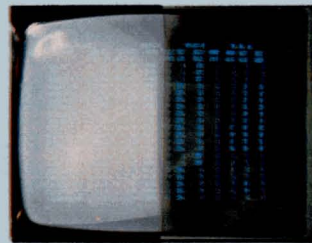
P Video/Program Worksheets. One side is a proportional layout sheet for designing Model I and III screen graphics. The other side has programming space for program lines and variable names or comments. 26-2105 100 sheets/3.95



Power Line Filter

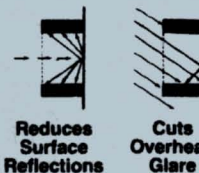
Limits AC power line interference to your Model I or Color Computer system. Effective dual-isolated design. Single switch controls all eight outlets. U.L. listed. 26-1451 49.00

TRS-80 Anti-Glare Mask



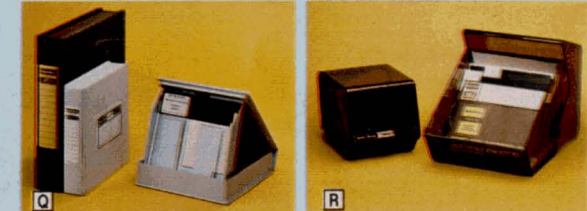
You Can See the Difference!

Reduces Glare And Reflections Instantly!



Reduces glare with no loss of resolution. Reduces eye strain and fatigue. Installs easily in seconds. For TRS-80 Models I, II, and III. Not for color monitors. 26-511 16.95

Organize Your Work Area



Q Diskette Library Cases. Holds 10 diskettes. Protects against dust, prevents curling. Easel insert "pops-up" for easy selection. Polystyrene.
5 1/2" Diskette Library Case. Gray. 26-1452 3.95
8" Diskette Library Case. Brown. 26-4952 4.95



R Diskette File Boxes. Store up to 50 diskettes. Index dividers simplify filing. Acrylic shell. Handsome smoke color.
5 1/2" Diskette File Box. 26-1453 29.95
8" Diskette File Box. 26-4953 39.95

S Stacking Data Tray. Holds neatly stacked 14 7/8" printouts. Eliminates damage to paper from trying to fit undersized tray. Black. 26-1309 Each 6.95

BOOKS FOR BEGINNERS AND "OLD PROS" ALIKE



BASIC Faster and Better. A guided tour of advanced BASIC programming. 288 pages. 62-1002 29.95

Radio Shack Computer Demonstrator. A cardboard computer! Illustrates basic operation of all computers. With 24 page manual. 62-1080 3.95

Beginners Guide to Personal Computers. Explains hardware, computer terms. 80 pages. 62-2003 1.95

TRS-80 Assembly/Language Programming. Covers microcomputers, hardware and software. 304 pages. 62-2006 3.95

Computer Programming in BASIC For Everyone. Introduction to computers, writing programs. 156 pages. 62-2015 2.95

BASIC Computer Language. Self-paced programmed instruction for Level I BASIC quickly gets you into programming. Sample programs. 232 pages. 62-2016 5.95

Level II BASIC. Self-study Level II BASIC for the TRS-80 Model I and III. 351 pages. 62-2061 9.95

Programming Techniques for Level II BASIC. An excellent supplement to Level II BASIC (above). 142 pages. 62-2062 4.95

TRS-80 Graphics. Shows how to create graphic displays — from line drawings to geometrics to simple moving-figure animation. 142 pages. 62-2063 5.95

TRS-80 Programs. 32 fully documented, ready-to-run programs. 267 pages. 62-2064 5.95

Program in Style. Packed with applications for the TRS-80 Level II, plus ideas for creating your own programs. 343 pages. 62-2067 10.95

Computer Games. Exciting and challenging games for the Level II TRS-80. 152 pages. 62-2068 7.95

Home Computer Programs. Includes finance, automobile-related, kitchen helpmates, tutorial, recreation, more. 330 pages. 62-2069 7.95

Introduction to TRS-80 Graphics. Discusses line drawing, special graphics characters, pixel graphics, simple animation. 134 pages. 62-2073 7.95

Advanced Level II BASIC. Helps you fully realize the capabilities of the TRS-80 Model I and III. Sample programs and chapter summaries. 250 pages. 62-2072 9.95

Business Programs for TRS-80 Model I/III. 35 fully documented programs. 264 pages. 62-2079 8.95

TRS-80 Data File Programming. Self-instructional manual shows you how to program and maintain data files on microcomputers. 306 pages. 62-2085 11.95

TRS-80 Pocket Computer Programs. 50 ready-to-run programs in Pocket BASIC. Business, education, and home applications. 80 pages. 62-2086 1.95

Microcomputer Dictionary. Radio Shack's edition of Sippl's dictionary with appendices on microprocessors and microcomputers. 606 pages. 62-2311 7.95

Understanding Computer Science. Covers history, hardware, programming and languages of computers. Includes operating system programs. 256 pages. 62-1383 2.95

Understanding Digital Electronics. Explains digital electronic devices, circuits and systems. 240 pages. 62-2010 3.95

Understanding Microprocessors. Learn what microprocessors are and how they can be used. 296 pages. 62-2017 2.95

Understanding Digital Computers. Easy-to-read programmed course on digital computer basics. 160 pages. 62-2027 4.95

How to Program the Z-80. Educational text and self-contained reference. From basic concepts to advanced data structures manipulations, with comprehensive description of all Z-80 instructions. 626 pages. 62-2066 10.95

Understanding Satellite Communications Systems. Description of the basic means of electronic communications. 256 pages. 62-2018 2.95

TRS-80 Model II Owner's Manual. A comprehensive, illustrated "owner's manual" for Model II users. (Included with all Model II systems.) 26-4920 29.95

TRS-80 Model II Technical Reference Manual. Includes theory of operation for the CPU Module, FDC, video/keyboard, video display, disk drives, and the power supplies. 26-4921 29.95

Getting Started With Color BASIC. Learn to write Color BASIC programs with graphics and sound. Over 300 pages of instructions written for the beginner. Entertaining and fun. 26-3191 5.95

Going Ahead With Extended Color BASIC. Describes features of Extended Color BASIC like advanced graphics, complex sounds, and more. Over 280 pages of instructions. 26-3192 5.95

Color Computer Technical Reference Manual. For the "technical-minded." Explains how the Color Computer works — including input/output and joystick ports. 26-3193 14.95

TRS-80 Applications Sourcebook. Over 2300 TRS-80 applications of all types for sale by a variety of vendors. 26-2114 2.95

TRS-80 Microcomputer Newsletter Reprints. The first 20 issues now bound in one handy book. A real gold mine of information! 122 pages. 26-2115 4.95

Model III Disk System Owner's Manual. Covers Disk operation, TRSDOS and Disk BASIC, with programming examples. 161 pages. 26-2111 6.95

Model III Reference Manual. Provides detailed information on Model III operation, including BASIC language section. 259 pages. 26-2112 5.95

Getting Started With TRS-80 BASIC. Entertaining introduction to Level II and Model III BASIC programming. Excellent for beginners. Sample programs and exercises. Over 300 pages. 26-2107 6.95

Model III Technical Reference Manual. Provides technical information and theory of operation on Model III hardware for use in troubleshooting and adding interfaces. 26-2109 9.95

OUR COMMITMENT TO EDUCATION

The people at Radio Shack believe that along with the development of a practically-priced microcomputer, there exists an accompanying obligation to make the system and its potential available to the education community. To meet this obligation, Radio Shack is supporting an extensive development effort to produce instructionally sound, effective and properly validated microcomputer-based educational materials for use in the classroom.

Courseware

What is courseware? It is a special kind of computer program designed to teach. Any computer or microcomputer is useless without a program—a special set of instructions written in a computer language that tells the computer how to solve a problem, such as calculating a payroll, alphabetizing a list of names, or printing mailing labels. For an instructional application, a computer program must incorporate an additional level of design—it must implement some acceptable instructional strategy. Special courseware such as this is costly and difficult to develop, and has been a restricting factor in applications of microcomputers in schools.

Radio Shack is addressing the problem of courseware. We have involved the experts—the teachers and curriculum developers in the schools—in designing and field testing our new courseware products. The educational programs discussed on these pages represent a growing commitment to the development of courseware by Radio Shack.

Scholarships for Teachers Program

Operating a microcomputer such as the TRS-80 isn't the same as operating a movie projector or a tape recorder. Some instruction and training is desirable. That's why we offer free training sessions to teachers and school administrators. One of our instructors can conduct these classes to fit your schedule—contact your nearest Radio Shack Computer Center for details.

Special Section For Educators Featuring Most Asked For Teaching Aids

The Microcomputer as a Medium of Instruction

Computer Assisted Instruction (CAI) is based on using the computer to assist the teacher in teaching subjects like reading, math, physics and chemistry. Proven CAI techniques have centered on individualized learning where the computer generates and presents student exercises in a given subject area.

K-8 Math Program, Vol. I

Includes self-paced drills in addition, subtraction, multiplication and division for Kindergarten through 8th grades. Features student placement, drill, and test modes of operation. 16K Level II or Model III BASIC req'd. 26-1715 199.00



AlphaKey™

Helps children 4 to 6 years old become familiar with the keyboard and alphabet. A report is given after each lesson. 16K Level II or Model III BASIC req'd. 26-1718 39.95



Essential Math Program, Volume I

Self-paced drill and practice program designed to reinforce math concepts introduced by the teacher. 16K Level II or Model III BASIC req'd. For grades 7-12. 26-1716 199.00



Euclid Geometry Tutor

Designed to reinforce basic geometry concepts introduced by the teacher. Allows students to develop proofs using 9 basic postulates of Euclidean Geometry. 16K Level II or Model III BASIC req'd. 26-1724 39.95



Radio Shack's High Motivation Reading Series

Four student readers and a read-along audio tape accompany computer program written in TRS-80 MicroPILOT. The computer measures comprehension in several skill areas, such as understanding the main idea, sequence of events, details, separating fact and opinion. Records test information for teacher's review. The HMRS series is based on motivational reading materials for reading levels 4-6, using an illustrated format. Program can be used with optional student records system that keeps long-term individual files stored on disk. (Requires TRS-80 MicroPILOT and 32K Model I lower-case disk system.)

- HMRS Charles Lindbergh/Amelia Earhart.** 26-2500 64.95
- HMRS Hound of the Baskervilles.** 26-2501 59.95
- HMRS Dracula.** 26-2502 59.95
- HMRS Moby Dick.** 26-2503 59.95
- HMRS The Beatles.** 26-2504 59.95
- HMRS 20,000 Leagues Under the Sea.** 26-2505 59.95

Student Records System. Use with above to maintain a complete record of student activity scores. Printer optional. 26-2508 24.95

K-8 Math with Student Management

The original K-8 Math program with student management. Monitors promotions and demotions, and allows for teacher review of scores. 32K Model I or Model III disk system req'd. Printer optional. 26-1725 199.00



K-8 Math Worksheet Generator

Prints worksheets and answer sheets for exercises in addition, subtraction, multiplication, and division using selected problem sequences from K-8 Math. Teacher can choose headings, lesson numbers, number of problems. 32K Model I or Model III disk system required, plus any TRS-80 line printer. 26-2162 89.95



Introduce Your Students to the Computer Age with TRS-80

The Microcomputer as an Object Of Instruction

The computer age is barely 30 years old. During that time, we have seen the evolution of the giant computers of industry into compact, low-cost systems used for everyday jobs such as supermarket checkouts and flight reservations. Today, computer technology touches and influences every aspect of our daily lives.

It is not surprising that more and more educators are investigating the impact of computers on the education process — not just as tools for learning, but as a means by which schools can prepare students to function in a world increasingly dependent on the use of computers. In a matter of only a few years, people who know nothing about computers may well be among the educationally disadvantaged portions of the population.

As an educational publisher, Radio Shack is addressing these needs with a new Computer Education Series (CES) designed for use in the classroom at the secondary and college levels. Each program in this series includes a teacher's manual, 25 student workbooks, and a set of transparencies for an overhead projector. Developed and thoroughly field-tested in schools, this material is designed for use by all teachers, regardless of their knowledge of microcomputers and programming skills. Watch for additional programs in the CES Series.



Part 1: Introduction to BASIC

A complete classroom teaching package that introduces secondary students to TRS-80 and BASIC language. All programming exercises are designed to be entered and run by students with hands-on access to the TRS-80. Includes teacher's manual, 143 transparencies and 25 student workbooks. 26-2150 159.00

Additional Workbooks. Set of 25 student workbooks for use with above. 26-2151 65.00



Part 2: BASIC Programming

A complete classroom teaching package that continues the BASIC programming concepts introduced in Part 1. Includes a teacher's manual, 164 transparencies and 25 student

workbooks. 26-2152 199.00

Additional Workbooks. Set of 25 student workbooks for use with the above. 26-2153 ... 99.00

Part 3: Advanced BASIC Programming

A complete classroom teaching package that introduces the INKEY\$ statement, ASCII character set, action graphics, cassette data files, mathematical and trigonometric functions, and multi-dimensional arrays. Includes a teacher's manual, transparencies, and 25 student workbooks. 26-2154. Available 3/30/82 199.00

Additional Workbooks. Set of 25 student workbooks for use with above. 26-2155 99.00

NOTE: Parts 1, 2 and 3 are designed for use with any Model I or Model III TRS-80.

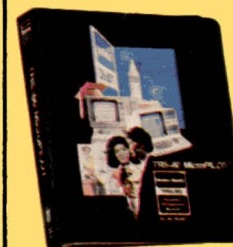


Radio Shack Courseware Development Systems

These new authoring systems make it easy to create courseware with the TRS-80. No extensive knowledge of programming is required.

Quick Quiz: A Mini-Authoring System

Teachers can create, store, and give multiple-choice tests using a TRS-80 computer. Handles up to 40 questions with 4 answer choices per question. Up to 50 students can be tested and their scores stored on a disk file for later review. 32K Model I or Model III disk system req'd. 26-1728 29.95



TRS-80 MicroPILOT™

Allows user to create or adapt courseware from curriculum suitable for computer-assisted instruction to the TRS-80. Includes user's manual with hints for using MicroPILOT efficiently, sample lessons

and a reference section. Model I 32K disk system req'd. 26-2205 79.95
Model III MicroPILOT included after 4/1/82.

TRS-80 AUTHOR I

A screen oriented authoring system that allows teachers without computer experience to create CAI materials. Features full-screen editing, graphics, student management module and score-keeping. The teacher can design branching within the program, as well as provide hints and a glossary. 32K Model I or Model III disk system required. 26-1727. Available 3/30/82 149.95



EDUCATIONAL RESOURCE MATERIALS FROM RADIO SHACK

Federal Funding Guide. An invaluable guide to obtaining funding for computer education. Identifies major sources of Federal funding, outlines essential elements of a proposal, offers suggestions for continuing and increasing funding. 26-2108 2.50



Proposal Writing Guide. A step-by-step guide for educators seeking funding from an external source (such as the Federal government or a private foundation) for computer-related education projects. The guide leads you through procedures necessary to the writing of a successful proposal; detailing the most important elements. 26-2754 9.95

TRS-80 Microcomputer Information Handbook for Educators. An informative booklet which describes what microcomputers are and how they can be used in classrooms. It discusses costs, courseware, and other considerations of special concern to the educator. 26-2757 2.50

K-8 Math Cross-Reference. Coordinates lessons of K-8 Math with specific chapters and pages of six popular math basals. Provides a quick means of finding the K-8 lessons which reinforce material being presented in class. 26-2750 4.95



Introduction to TRS-80 Level II BASIC. A textbook for teaching BASIC programming, with explanations and examples. Features sequential introduction of new concepts, with exercises at the end of each chapter. 26-2116 9.95

Computer Literacy: Computers Past and Present

In today's world, students need to have a solid understanding of computers. This classroom package includes a teacher's guide and six spirit masters illustrating the history of computers, what a computer is, what it can do, and how it works. A sample computer program is shown and analyzed. A colorful wall chart is also included. 26-2755 9.95



Math and Physics Programs for Secondary Grades

Problem-solving exercises. 16K, Level II or Model III BASIC req'd.

Advanced Graphics. 26-1714 29.95

Vector Addition. 26-1720 29.95

Interpreting Graphs in Physics: Position and Velocity Vs. Time. 26-1721 29.95

Graphical Analysis of Experimental Data. 26-1722 39.95

Investigations in Integral Calculus. Secondary math program that allows the student to graph and compute areas of functions. Includes student activities and teacher's manual. (16K, Level II or Model III BASIC.) 26-2600 39.95

Numeric Data Entry Practice. Helps students increase speed and accuracy on a standard numeric keypad. Includes disk-based record-keeping system. Printer optional. (32K Model I or Model III Disk System.) 26-2601 39.95

Plane Analytic Geometry. Secondary math program generates problems in geometry for students to solve. Emphasizes straight lines and conic sections. Program provides help when student answers incorrectly. Report is given at the end of each session. (16K, Level II or Model III BASIC.) 26-2602 39.95

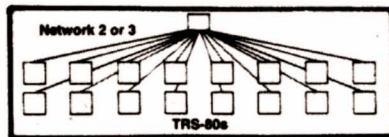


Network 2 Controller

Lets teachers up- and down-load programs to TRS-80 student stations. Requires Model I or III "host" computer with disk drive and up to 16 Model I or III stations, or a Color Computer (with disk) "host" and up to 16 Color Computer stations. Controllers can be cascaded to connect more stations. With cables. 26-1211 499.00



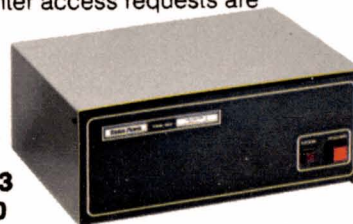
Network 2
499⁰⁰



Network 3
599⁰⁰

New! — Network 3 Controller!

The Network 3 connects up to 16 TRS-80 Model III student stations to a host Model III. The Network 3 system software gives each student station access to the host computer's disk drives and attached printer. Each student station can SAVE and LOAD programs directly to and from the host, and LLIST and LPRINT to the host printer. (Printer access requests are



"spooled" at the host until the printer is free.) Files on the host diskette can be directly manipulated from student stations, allowing automatic student record keeping. System software and special Network 3 cables and adapters will be available separately. Minimum Student Station — 16K Model III with Model III BASIC and RS-232 board. Minimum Host System — Model III 32K disk system (printer optional). 26-1212 599.00

Cat. No.	Cables and Accessories	Price
26-1490	10' Molded RS-232 Cable	29.95
26-1491	25' Molded RS-232 Cable	39.95
26-1492	50' Molded RS-232 Cable	54.95
26-1493	100' Molded RS-232 Cable	89.95
26-1494	5' Color Computer to Network III	19.95
26-1495	RS-232 Cable Extender	29.95
26-1496	Null Modem Adapter	29.95
26-1497	Model III RS-232 Extender	17.95

Radio Shack is an Educational Publisher

As an educational publisher, Radio Shack is working to help teachers and school administrators plan for effective use of microcomputers in their schools. More and more educators are investigating the impact of computers on the education process — not just as tools for learning, but as a means by which schools can prepare students to function in a world increasingly dependent on the use of computers. Radio Shack's Education Division produces a variety of courseware products to address these needs. In addition, other courseware programs are being developed for the TRS-80 by numerous other major educational publishers.

Our National Bid and Lease Departments Serve You

Radio Shack offers educators a variety of special services. Our National Bid Department gives prompt attention to school bids and offers the best possible price quotations on quantity purchases of TRS-80 equipment and courseware. Our National Lease Department can put the TRS-80 into your classrooms with terms that meet almost any budget. And because you can lease everything at once — instead of buying equipment gradually — you can give more students hands-on experience at the computers immediately.



Recent Additions to Radio Shack's Line Of Educational Software

History of Technology

These packages describe technological achievements through graphics, text, and recorded speech. 16K Color Computer, CTR-80A cassette recorder required.

Pioneers in Technology.

The Age of Flight, Space Exploration, The Electric Car, History of Computers. 26-2624 94.95

Inventions That Changed

Our Lives. Edison's Electric Inventions, Bell and the Telephone, The Story of Railroads, The Age of Television. 26-2625 Available 4/30/82 94.95



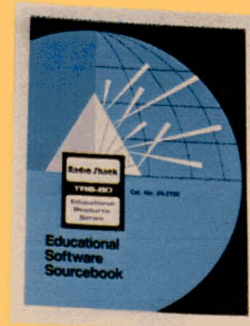
Essential Math Program, Volume Two

The Essential Math Program, for grades 7 through 12, is designed to reinforce math concepts introduced

by the classroom teacher. Volume Two covers fractions, decimals and percents, and pre-algebra concepts. Allows automatic promotion and demotion through the lessons. Reinforcement messages provide constant feedback to the student. Requires 16K, Level II; Model III BASIC; or 32K Disk BASIC. 26-1719 Available 4/30/82 199.00

TRS-80 Educational Software Sourcebook, Volume I

Radio Shack introduces a special edition of the TRS-80 Software Sourcebook for educational courseware. Vendor-furnished listings include a description of the program and important characteristics. Indexed by subject, user level, and instructional technique employed. 26-2756 Avail. 4/82 . . . 4.95



Reading is Fun

An entertaining way to learn at home with the TRS-80 Color Computer! Designed for grades 4-6, each package includes an illustrated reader, a read-along audio cassette tape, and a computer tape with spelling and vocabulary exercises. 4K Color Computer, CTR-80A cassette recorder required.



Dracula. 26-2550 14.95
The Hound of the Baskervilles. 26-2551 14.95
Moby Dick. 26-2552 14.95
20,000 Leagues Under the Sea. 26-2553 14.95

CHAMPS™: A Football Scouting Program

Designed by high school football coaches for high school and college levels. CHAMPS lets you store and analyze offensive scouting information. Prints a variety of listings, tendency charts, and statistical reports. Includes ten CHAMPS



Scouting Manuals. Model I or Model III 48K disk system and 132-column line printer required. 26-2703 149.95

Chemistry Simulations

This set of chemistry laboratory experiment simulations allows your students to control and see the results of various experiments again and again. Titles in Volume 1 are Kinetic Theory, Charles' Law, Boyle's Law, Titration, Conductivity, and Solubility. Package includes instruction manual and student experiment books. Volume 2 of Chemistry and two volumes of physics simulations will be available soon. 16K Color Computer with Extended BASIC and CTR-80A cassette recorder required.

Chemistry 1. 26-2609 Available 4/82 199.00

INTRODUCING THE MOST POWERFUL TRS-80 EVER! THE NEW RADIO SHACK MODEL 16

- **Unique Dual-Processor Design Features MC68000 16-Bit and Z-80A Microprocessors**
- **128,000 Characters of Internal Memory, Expandable to 512,000 Characters**
- **One or Two Built-In 1,250,000-Character Double-Sided, Double-Density 8" Disk Drives**
- **Expandable to Over 33 Million Characters of Program and Data Storage on Hard Disks**
- **Software Compatible with Model II Programs**
- **Multi-User Capability Allows Execution of Several Programs Simultaneously**

The new TRS-80 Model 16 puts minicomputer performance in a complete, compact desktop system. Complex tasks can now be accomplished with ease!

New 16-Bit Technology

The TRS-80 Model 16 is designed around a state-of-the-art 16/32-bit microprocessor that accepts 16-bit data and processes it internally as 32-bit "words." A second microprocessor — the Z-80A — handles the input/output and other "housekeeping chores." This design permits Model 16 to utilize much more memory and process data at much higher speeds than 8-bit micros.

Large Memory Capacity

Model 16 comes with 128K bytes of Random Access Memory (RAM) that can be expanded in 128K-byte increments up to 512K — that's over one-half million characters of internal storage!

Software Compatible with Model II

The special dual-processor design permits the Model 16 to operate as a TRS-80 Model II and use existing Model II software! So a large base of ready-to-run programs is currently available. Many existing and future programs will be available to take advantage of Model 16's advanced features.

Expandable

Model 16 features two RS-232C serial interfaces and a parallel printer interface which allow expansion with printers, plotters, digitizers, telephone modems and more. A hard disk port can be added to use from one to four 8.4-megabyte Hard Disk Drives.

Deluxe Features

Model 16 includes a high-resolution 12" green video display with 24 lines of 80 characters, and a detachable typewriter-style keyboard with numeric keypad and two special-function keys. And you can choose a Model 16 with one or two built-in 1.25-million-character 8" disk drives.

Multi-User Capability

Radio Shack's advanced design allows a stand-alone TRS-80 Model 16 to become the hub of a multi-user system. One or two low-cost terminals, like Radio Shack's new DT-1 (see page 24) can simultaneously access different programs on the Model 16 — without any perceived loss of performance. (Multi-user operating system available mid-1982.)

128K 1-Disk TRS-80 Model 16.

26-6001 4999.00

128K 2-Disk TRS-80 Model 16.

26-6002 5798.00

Priced From
4999⁰⁰
128K 1-Disk



TRS-80 MODEL 16 DEVELOPMENT LANGUAGES/EXPANSION OPTIONS

TRS-80 Model 16 Operating System

The new Model 16's operating system is virtually "Library Command" compatible with our popular TRS-80 Model II, and includes an Editor/Assembler package for assembly language program development. The editor allows extensive and sophisticated editing techniques, and it's both line and character-oriented. Commands are simple and straight-forward, yet powerful enough to accommodate the most demanding user. A utility program can provide a source listing, plus list to the printer or display any text file. Programs may be loaded at user-specified locations, and program areas and data areas may be separated in memory. The Editor/Assembler package is supplied on the system diskette, and includes editor, macro-assembler, linking loader, cross-reference and debugger.

TRS-80 Model 16 Specifications

Microprocessors: 6 MHz MC68000 16/32-bit CPU and 4 MHz Z-80A 8-bit CPU. Direct memory access and vectored interrupts for faster throughput. Memory management includes protected system mode and three user spaces.

Memory: 128K RAM bytes, expandable to 512K, plus 16K I/O memory and 2K video memory.

Keyboard: 76-key professional-type, including Numeric Entry Keypad. Special Keys include HOLD, ESCape, BREAK, CTRL, CAPS and REPEAT, plus Up, Down, Right and Left arrow keys, and two programmable Special Function Keys (F1 and F2).

Video Display: High-resolution 12" green display monitor with 80 or 40 characters per line by 24 lines. Displays upper and lower case characters with descenders, plus 32 "business graphics" characters. Automatic scrolling. Partial screen scroll protect available.

Disk Drive: One or two built-in double sided, double-density 8" slim-line floppies. Add up to four 8.4 Megabyte Hard Disk Drives. Maximum system may include two floppy disk and four hard disk drives.

Internal Expansion: Two plug-in card slots. Memory expands in 128K-byte increments.

External Connections: One standard parallel port and two RS-232C serial ports.

Power Requirements: Built-in filtered power supply for 120VAC, 60 Hz. U.L. listed.

Dimensions: 14x2 $\frac{1}{4}$ x23 $\frac{1}{2}$ "

COBOL Development System

TRS-80 Model 16 COBOL is designed for developing your own business and accounting applications programs. And, since more business programs have been written in COBOL than any other computer language, a wide selection of software is currently available, much of which can be transferred to the TRS-80 Model 16 with little or no modification. RSCOBOL is a high-level implementation of the ANSI-74 COBOL standard for minicomputers. It's just like "main-frame" COBOL, but without a "sort" or "report writer" feature. It includes an interactive debug for program development and testing with address stop, single step and variable display, CRT control with extended accept/display commands for attractive screen formatting, ANSI level 2 input/output commands, and multi-keyed ISAM for quick access to data, an editor for creating and changing source programs, and a single-pass compiler which generates an object code for fast program execution by the Run-Time program. Radio Shack's Model 16 COBOL Development System is supplied on a single diskette with Run-Time package, User's Guide and COBOL Language Manual in a deluxe binder. 26-6100 299.00

Internal Memory Expansion

The new Radio Shack TRS-80 Model 16 comes complete with a 128K-byte Random Access Memory (RAM) board as a standard feature. This board can accept an additional 128K RAM "chip kit" at any time — expanding internal memory to 256K bytes. Another 128K memory board may then be added, complete with the provisions to add still another 128K chip kit, for a total of 512K bytes — over one-half million characters of internal memory!

128K Memory Board. 26-6011 699.00*

128K Memory Kit. 26-6012 499.00*

Internal Disk Expansion

You can add a second disk drive to a single-drive TRS-80 Model 16 at anytime, and have a total of 2.5 million characters of high-speed "on-line" disk storage on interchangeable 8" "floppy" diskettes. Each double-sided, double-density disk drive is enclosed in the Model 16's case, and each provides 1.25 million characters of storage for user programs, data files, and the Disk Operating System.

Disk Drive Kit. 26-4167 799.00*

*Computer upgrade kit prices do not include required installation charges.



TRS-80 DT-1 TERMINAL

NOW A DATA TERMINAL GOOD ENOUGH TO BE CALLED TRS-80

Ideal for Use with the TRS-80 Model 16 Multi-User Office System

699⁰⁰

Radio Shack's new TRS-80 DT-1 is a no compromise video data terminal. It's perfect for communications with our new TRS-80 Model 16 Multi-User Office System (see page 22). With the addition of a low-cost Radio Shack modem, it can access other host computers and time-sharing information networks as well. Unlike many terminals, you can easily set up and change the configuration of your DT-1 from the keyboard. There are no dip switches to bother with. The secret? A revolutionary non-volatile memory that retains your terminal configuration even with power off — and without a battery backup!

The DT-1 is completely code compatible with four standard terminal protocols. It can emulate a Televideo 910, a Lear Siegler ADM-5, ADDS 25 or Hazeltine 1410 terminal. The 12" diagonal CRT displays 24 lines of 80 upper and lower case characters per line. Special single-character symbols are used to display control characters. The standard typewriter-style keyboard features a 12-key datapad for calculator-quick numeric entry. The datapad is also used with the control and shift keys to produce special characters, generate control codes and position the cursor.

The TRS-80 DT-1 can be equipped for hardcopy output by connecting a printer to the built-in RS-232C serial interface or parallel interface. A local monitor mode lets you enable printer ports and position the cursor using local control and escape modes. The carriage return key can be programmed with or without a line feed. Control key termination codes are also user programmable. An electronic bell is standard.
26-6050 699.00

Specifications

Data Transfer: Ten keyboard selectable rates: 75, 110, 150, 300, 600, 1200, 2400, 4800, 9600, and 19200 baud. **Video Size/Format:** 24 lines of 80 characters, upper and lower case. **Cursors:** Four keyboard-selectable types: Steady or Blinking Block; Steady or Blinking Underline. **Video Attributes:** Normal, Reverse, Invisible, Blink, Underline and Half-Intensity Video. **Keyboard:** 70-key, including 12-key datapad. **I/O Ports:** One RS-232C communications port, one serial and one parallel printer port. **Power:** 120VAC, 60 Hz, 30 watts. U.L. Listed. **Size:** 12½x18½x21½"



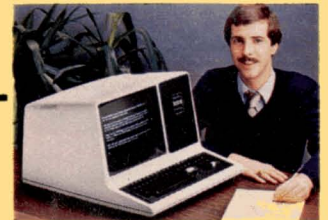
SET UP A MULTI-USER SYSTEM WITH THE DT-1 AND TRS-80 MODEL 16

Radio Shack's new TRS-80 Model 16 has been designed to become the hub of a low-cost multi-user office system. (Available mid-1982). This advanced feature lets you use one or two DT-1 terminals at remote locations to simultaneously operate different programs on the Model 16 — without any perceived

loss of performance. A remote DT-1 user can be entering inventory figures, while another is accessing a data base management system — all at the same time the Model 16 operator is running a payroll program! The DT-1 terminal is the ideal remote workstation for this system.

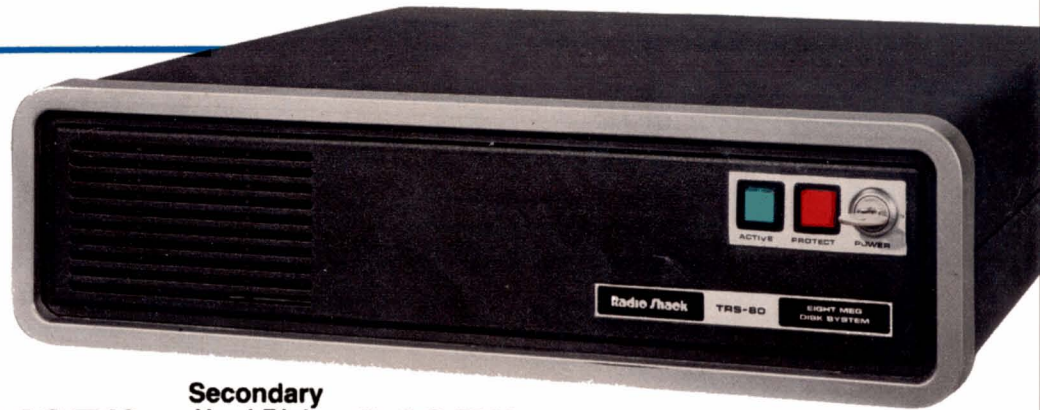


Two DT-1 Terminals at remote locations can access and utilize the resources of the TRS-80 Model 16 Computer.



TRS-80 HARD DISK SYSTEM

ADD 8.4 MILLION BYTES OF DATA STORAGE TO YOUR MODEL II OR MODEL 16



- Extremely Fast Access to Over 8 Million Bytes of Data
- Compatible With Most TRS-80 Model II and Model 16 Software
- Easily Add Up to Three More Hard Disk Systems for Over 33 Million Characters of On-Line Data and Program Storage
- Ideal for Data Base Management
- Uses All Currently Available TRSDOS Library Commands, Plus Enhanced Features Designed Specifically for the Hard Disk System

**Primary
Hard Disk
System**

4495⁰⁰

**Secondary
Hard Disk
System**

3495⁰⁰

Now you can have immediate access to vast amounts of data — almost 9 million characters! With the Radio Shack Hard Disk System, you can set up a powerful data base management system. And you can expand with up to three "secondary" Hard Disk Drives for a total storage capacity of over 33 megabytes. Best of all, most Model II and Model 16 programs will transfer directly to hard disk.

The TRS-80 Hard Disk System is comprised of two 8" platters, permanently sealed in a dust-free environment. Both surfaces of each platter are accessed by their own read/write head — forming a cylinder of four tracks under the head at any one time. Winchester technology provides reliable, high-speed data transfer. All current TRSDOS library commands are available, plus two new utilities: SAVE and RESTORE. The SAVE utility quickly and efficiently saves data from the Hard Disk onto one or more back-up diskettes. RESTORE reads the data on the diskette and writes it back onto the Hard Disk. To best utilize the Hard Disk System, the Global Search sequence on Models II and 16 will examine the hard disks first, then the floppy disks. Expand the storage capability of your Model II or Model 16 with our incredible Hard Disk System! Installation required.

Primary Hard Disk Unit.

26-4150 4495.00*

Secondary Hard Disk Unit.

26-4151 3495.00*

*Prices do not include required installation.

Fast and Powerful TRS-80 Hard Disk Computer Systems!



**TRS-80 Model 16
Hard Disk System**

Includes
256K Memory **9993⁰⁰**

- New TRS-80 1-Drive Model 16 Computer (26-6001)
With Memory Kit (26-6012)
- 8.4-Megabyte Primary Hard Disk System (26-4150)



**Low-Cost TRS-80
Model II Hard Disk System**

Complete System **8394⁰⁰**

- TRS-80 64K 1-Drive Model II Computer (26-4002)
- 8.4-Megabyte Primary Hard Disk System (26-4150)

Specifications

A 2-platter, 4-surface, 8" disk drive employing sealed media with a self-contained, recirculating filtered air system. *Disk Format:* Each of 4 disk surfaces has one movable read/write head to access 256 data tracks on that surface. A 4-track cylinder is accessible under all 4 heads with a single seek. *Disk Size:* Two non-removable 8" disks. *Data Transfer Rate:* 4.34 megabits/second. *Disk Rotation Speed:* 3125 RPM. *Latency:* 9.6 milliseconds, average. *Track Access Time:* 19 milliseconds (track-to-track). *Power:* 120VAC, 60 Hz, 140W. U.L. listed. *Size:* 5½x18½x19¼."

TRS-80 MODEL II BUSINESS COMPUTER

RADIO SHACK'S VERSATILE MULTI-PURPOSE WORKSTATION

64K System
3899⁰⁰

**Ideal for Business Applications Ranging
From Accounting and Management Planning
to Word Processing**

TRS-80 Model II is Radio Shack's highly acclaimed business microcomputer. It combines high power and low cost to make it the right computer for countless applications.

Radio Shack supports the Model II with a growing line of software and total before-and-after-sale service. And it can quickly go to work for you with no formal operator training using our inexpensive user-oriented, well-documented software programs for payroll, accounting, inventory control, mailing lists, with more to come. Model II features easy expandability, compatibility with external equipment, communications and multi-language programming capabilities, as well as low start-up and operating costs.

In large companies, Model II can do jobs that are too "hot" to wait for shared computer time and those too small for cost-effective handling by your mainframe. Model II can also be used to create diskettes in IBM 3741 single-density format. And Model II can support remote bisynchronous communications in several IBM formats (see page 36). Why not arrange a TRS-80 demonstration soon?

Accounting

Model II has the memory and storage capacity for many accounting applications. It can help



**Improve office efficiency with
electronic filing and data
management.**



you improve your cash flow and establish a more effective budget for accounts receivable. It can also print checks using an optional printer, reduce paperwork for your payroll, simplify inventory control by spotting slow-moving stock items, make invoicing procedures easier and give you up-to-the-minute accounting reports.

Management Planning

With our VisiCalc "electronic spreadsheet" and statistical analysis software, Model II becomes an invaluable planning and modeling tool. By using your company's historical data, Model II can provide managers with valuable insights as to future performance.

Office Efficiency

A Model II system with printer is one of the easiest and most affordable ways to boost office productivity. It can easily become a powerful word processing system, and even an electronic filing system that can search through your records to find just the information you're looking for, in seconds.

Programming Languages

Model II BASIC is an advanced version of this plain English programming language. It is an easy-to-use enhanced version of our Level II

interpretive language. Radio Shack also offers several optional languages for the Model II. Our COBOL, the advanced business language, is an exclusive "minicomputer" version of ANSI '74. For scientific or technological applications, there is FORTRAN. Our advanced BASIC Compiler offers ISAM file capabilities and protected source code. For more advanced programming techniques, our Editor/Assembler lets you program in Assembly Language using either Z-80 or 8080 Mnemonics, with constants specified in octal, hexadecimal, and even binary.

Communications

The TRS-80 Model II is ideal for use in existing data processing environments because it offers the versatility a mere terminal lacks. With our bisynchronous communications packages, Model II provides low-cost access to large mainframe computers. And since it's a complete stand-alone computer, Model II can be used to tackle the tough problems within your department, such as inventory control, billing and forecasting without tying up your mainframe. With our TRS-80 VIDEOTEX package (see page 55) and a modem, you can also access national information sources for up-to-the minute news, weather and financial information.

AN INSIDE LOOK AT THE TRS-80 MODEL II COMPUTER

The basic Model II is contained in one compact, desktop cabinet including a built-in 8" disk drive for storage of programs and data, a high-resolution 12" video display, and a detachable keyboard designed to be similar to the familiar typewriter keyboard. The keyboard is simple to use because "special" keys have been kept to a minimum. For quicker and more accurate numeric input, a calculator-type keypad with its own ENTER key is provided. The high-resolution video screen will display 24 lines of 80 upper and lower case characters. Optionally, double-width characters—40 per line—or reverse characters can be selected by your program. Model II is available with either 32K or 64K of Random Access Memory (RAM). This means you can store 32,000 or 64,000 characters of information in the computer's internal memory. A 32K Model II can be expanded to the full 64K of internal memory at any time with our 32K RAM Add-On option.

Disk Storage

The double-density disk drive provides 416,000 characters of storage for your programs and data on interchangeable "floppy" diskettes. If that's not enough, just plug in a Model II Disk Expansion Unit (page 28) with one, two or three more drives. Each added drive stores another 486,000 characters, bringing the total capacity of a four-drive system to about two-million characters. For the fastest possible access to large amounts of data, Model II can be outfitted with up to four 8.4 million-character hard disk drive systems.

Expand Anytime

TRS-80 Model II is easily expanded to cope with growing or changing requirements. It won't become obsolete in a few years. One standard parallel port and two RS-232C serial ports allow you to add printers, plotters, digitizers, communications with data-bases and other computers. Internal plug-in card slots are also provided for other options such as the hard disk drive inter-

face. Model II includes a comprehensive reference manual and a diskette that contains the very powerful Model II Interpretive BASIC language and "TRSDOS" disk operating system. Additional program packages are described on pages 31 to 37. U.L. listed.

32K, 1 Disk TRS-80 Model II.	
26-4001	3450.00
64K, 1 Disk TRS-80 Model II.	
26-4002	3899.00
32K Memory Add-On. 26-4102	449.00*
Model II RS-232 Cable. 26-4403	39.95

*Installation Required (not included).

For value, versatility, ease of use, and support, you can't beat the Model II. It's all business!

Specifications

Microprocessor: Z-80A 8-Bit Processor. Clock Speed, 4 MHz. Separate Keyboard and Video Processors, Direct Memory Access and Vectored Interrupts for Faster Throughput.

External Connections: One Standard Parallel Port, Two RS-232C Serial Ports, One External Disk Bay Port.

Disk Drive: Built-In Dual-Density 8" Floppy, up to Three More Available in External Bay. Optional 8.4 Meg. Hard Disk Drive (up to 4 may be added). Maximum System May Include 4 Floppy Disk Drives and 4 Hard Disks.

Power Requirement: Built-In Filtered Power Supply for 120VAC, 60 Hz.

Keyboard: 76-Key Professional-Type Including Numeric Entry Keypad. Special Keys include HOLD, ESCape, BREAK, CTRL, CAPS, REPEAT, Up, Down, Right, Left and Two Programmable Special Function Keys, (F1 and F2).

Video Display: High-Resolution 12-Inch Monitor with 80 or 40 Characters Per Line, 24 Lines, Automatic Scrolling. Displays Upper and Lower Case Characters with Descenders. Partial Screen Scroll Protect Available. 32 "Business Graphics" Characters.

Memory: 32K or 64K RAM. "Bootstrap" ROM is Bank-switched Out After "Boot" Startup. Includes Power-Up Diagnostics.

Internal Expansion: Four Plug-In Card Slots for Future Expansion or Converting 32K RAM to 64K.

Overall Dimensions: 14x21 1/4x23 1/2"



TRS-80 MODEL II PERIPHERALS AND ACCESSORIES



Units may vary slightly from photo.

DISK EXPANSION UNITS FOR MORE ON-LINE STORAGE

Expand TRS-80 Model II Disk Storage Capacity Up to 2 Megabytes

From **1150⁰⁰**

For more disk storage, just plug in an external Disk Expansion Unit—available with one, two or three 8-inch disk drives. Each individual drive adds about 486,000 characters of on-line storage. And, if you start with a one or two-drive system, you can add Disk Drive Kits at any time to expand to a two or three-drive system. The added drives let you use our SCRIPSIT™ Word Processing program to print form letters with names and addresses from our Mailing List or Profile II programs. With two external drives you can use any of our 3-Disk COBOL Business Packages for sophisticated accounting capabilities.

1-Drive Expansion System. 26-4160	1150.00
2-Drive Expansion System. 26-4161	1750.00
3-Drive Expansion System. 26-4162	2350.00
Disk Drive Kit (Drive Only). 26-4163*	600.00

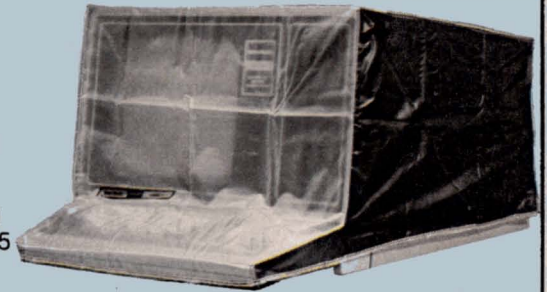
Specifications

Number of Drives: 1 to 3. *Disk Format:* Track 0, System information; Tracks 1 through 76, 26 sectors, 256 bytes per sector (double density). *Disk size:* 8" diskette. *Data Transfer Rate:* Double Density, 500 kilobits per second. *Disk Speed:* 360 RPM. *Latency:* 83 ms. average. *Track Access Time:* 260 ms average, 10 ms track-to-track. *Power:* 120 VAC, 60 Hz, 150 watts. U.L. listed. *Size:* 11½ x 18½ x 21"

*Computer Upgrade Kit Prices Do Not Include Required Installation Charges

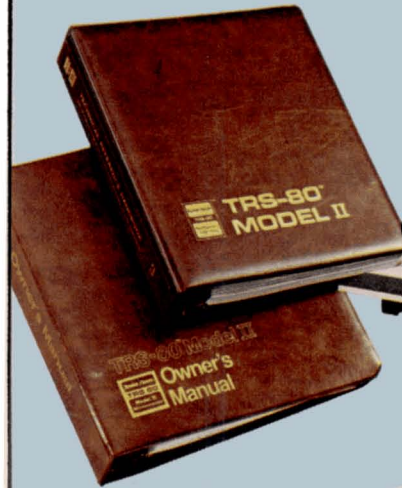
Protect Your Model II/16 With a System Cover

Add a professional touch and help keep your investment looking and performing like new. Durable one-piece cover with stitched edges fits the Model II keyboard and display. 26-4051



Model II Technical Manual. Includes theory of operation, schematics, parts list, component specifications and general checkout procedures. 26-4921

Model II Owner's Manual. Comprehensive, fully illustrated reference guide in a heavy-duty 3-ring binder. (Included with all Model II systems.) 26-4920



Deluxe System Desk And Printer Stand

Desk. Large storage drawer mounts on the right or left. Mount low and place a Disk Expansion Unit above it. Heavy-duty construction with wiring cut-outs in top. 28 x 48 x 29." 26-4301

Stand. Slotted top allows use with virtually all printers and permits bottom paper feed. 27 x 23½ x 19." 26-4302



Inset Shows Alternate Setup with Disk Bay

TRSDOS® — THE TRS-80 MODEL II DISK OPERATING SYSTEM

TRSDOS ("Triss-Doss") is the system that manages disk operations of the TRS-80 Model II. It is a comprehensive system with many powerful features for the programmer, yet it is very easy to use and virtually "transparent" to the non-programmer using pre-written software. TRSDOS occupies space on the System diskette and is automatically loaded for use after system power-up. The Supervisor program, input/output drivers and other essentials are always in memory. However, only a small portion of TRSDOS is actually in memory at any one time. Auxiliary code is loaded as needed into an "overlay area."

TRSDOS provides a full set of library commands, utility programs and many useful system routines that can be called directly by user programs.

Some of the 37 Library Commands include: ATTRIB — to change a file's password. CREATE — to preallocate data file space for faster execution. COPY and MOVE — to transfer files. DEBUG — to isolate errors in machine language

programs. DO — for automatic powerup execution of a sequence of commands. FORMS — to set printer page length and width, line width, top of forms and to toggle parallel or serial printer drivers. HELP — to help clarify TRSDOS commands. PATCH — to modify the code in our system's software so you can implement updates we provide. RENAME — to change the name of a file. SPOOL — to save printer output in a disk file for later printing, and also to allow printing while other operations are being entered.

The Utility Programs are: BACKUP — to copy a diskette. FORMAT — to organize a diskette. MEMTEST — to check out RAM.

You also get a complete set of Communication commands: ECHO — to begin echo of keyboard input to display. HOST — to allow keyboard input from and video output to a remote terminal. RECEIVE — to input data into RAM from serial interface. SETCOM — to set RS-232 port parameters. TERMINAL — a versatile menu-driven ASCII communication program.

Machine language programmers can use Supervisor Calls which are Operating System routines. They can be used without worrying about hard address changes which could occur in later software releases. The routines alter certain System functions and conditions; provide file access; perform I/O to the keyboard, video display and printer; plus perform various computations. TRSDOS allows keyheads of up to 80 characters — you can type in the next command while previous ones are being executed.

Model II TRSDOS responds to commands with positive feedback. For example, if you type "KILL 'file name,'" TRSDOS will respond with "'file name' KILLED" or "'file name' NOT FOUND." You also get numbered error messages with detailed explanations available on the display, and a password system that can be used to prevent unauthorized use or duplication of your programs and data. The System diskette and comprehensive TRSDOS User's Guide is housed in a deluxe 3-ring binder, included with each TRS-80 Model II.

MODEL II BASIC — OUR USER-ORIENTED LANGUAGE

All of Model II's operating software is loaded into Random Access Memory from the System diskette every time you power-up the computer. So whatever language you choose, it leaves the maximum available user memory. No addressable memory space is committed to Read-Only Memory (ROM). The Model II contains just a small amount of ROM that merely loads the operating software, then is switched out.

TRS-80 Model II BASIC is an easy to use, expanded version of our Level II interpretive language. It's a 17K disk-based interpreter, and features detailed error flagging and quick editing that make it especially easy to use for program development and debugging. If you can program in Level II BASIC, you'll find Model II

BASIC very familiar, with more versatility and power. Some of its outstanding features are —

- Advanced string handling • Full editing
- Multidimensional arrays • Error trapping
- Program line renumbering
- Hex and octal conversion
- Direct and sequential access to data in disk files
- Ability to execute most TRSDOS commands and return to BASIC with program and variables intact
- Special functions to allow BASIC programs to call machine language subroutines
- Recovery from operator errors

Command compatibility has been maintained to the greatest possible extent for the convenience of Model I and III owners who decide to move up to the additional speed and capability of the Model II. And Model II BASIC does offer quite an improvement for the machine language programmer.

Model II BASIC is designed to run under our TRSDOS Disk Operating System, and both are included with every new Model II.

Model II BASIC is also supplied on a Replacement TRSDOS Diskette.

Replacement Diskette Only.
26-4910 24.95

**TRS-80 MODEL 16
ENHANCEMENT
OPTION
1499⁰⁰**



Good News for Model II Owners! Get a 16-Bit Microprocessor and Up to 256K Memory!

Now you can have the advantages of our latest micro-computer technology. This Enhancement Option includes installation of two boards: one containing the MC68000 16-bit microprocessor and a 128 thousand character memory board which can be upgraded to 256K. That's one-quarter-million characters of on-line memory directly available for use by the MC68000. Your Model II will be just like a Model 16, but using your existing disk drive, and having a maximum of 256K internal memory.

Compatible With Model II Software!

Your system is still a "full-function" Model II, and you can use all of your present Model II software without modification. You may also use the software Radio Shack is developing to take advantage of the MC68000's 16-bit processing power.

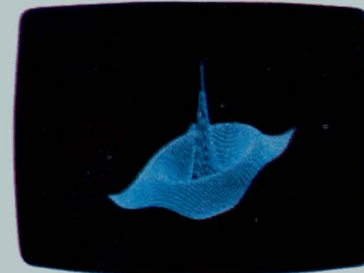
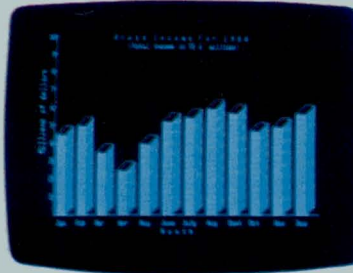
Dual-Processor Architecture

With the Enhancement Option your Model II will actually contain two microprocessors, because the Z-80A processor and its support circuits are retained for Input/Output. This frees the 16-bit processor to bring its full power to bear upon data processing problems and memory management functions.

Multi-User Capability

By mid-1982 your enhanced Model II, operating as a Model 16, will be able to support three users simultaneously! Thus two workstations in your office can be low-cost remote terminals like our new DT-1s. It's like having three computers in your office at a much lower price!

Upgrade Kit. 26-6010 1499.00*



- **Easy-to-Use** — Graphics BASIC Included
- **Has Library of Assembly Language Sub-Routines** for Use With Other Languages
- **153,600 Picture Elements (640x240)**
- **Unlimited Uses** — Turns the Model II Video Display Into a "Graphic Blackboard"

- **Paint Styling** — Fills in Spaces Between Lines With a Variety of Patterns
- **Line Styling** — Draws Lines in Variety of Styles With One BASIC Statement
- **Independent Graphics Memory Can Overlay Text** in Regular Video Memory

Added Model II Versatility

Now Radio Shack's TRS-80 Model II Graphics Option with our new Graphics BASIC language lets you use your Model II's video display screen as a "sketch pad" for the creation of whatever designs you may need. The result can be sophisticated tables, charts, graphs, illustrations, geometric patterns, maps and more.

High Resolution

Your designs will be executed with fine detail, since the screen is composed of 153,600 picture elements, or "pixels"! That's 640 points horizontally by 240 points vertically.

Simple to Use

Using the "paint styling" mode you can easily and rapidly fill in broad areas of the screen and you can use a variety of patterns. With the "line styling" mode, you have "point-to-point" graphics options that let you draw any line at any angle with just one BASIC statement!

Easy to Learn

If you already know TRS-80 Model II BASIC, Graphics BASIC will be a snap because you need to learn only eleven new commands! Their power is incredible. For example, by incorporating them into a BASIC program, you can create animation and motion!

Summary of Graphics BASIC Commands

- CIRCLE** — Draws a circle, arc, or ellipse.
- CLS** — Clears a character or display screen.
- GET** — Reads the bit-pattern in a block on the display screen into an array for alteration and future use. Used in animation.
- LINE** — Draws a line between points.
- PAINT** — Paints an area in a specified style.
- POINT** — Checks a point for being turned on or off.
- PRESET** — Turns pixel on or off.
- PUT** — Puts contents (bit pattern) of an array onto the screen. Altering these before they are put is part of creating animation.
- SCREEN** — Screen Command/Flash mode. Useful in speeding up the display in painting and motion. Turns graphics screen on or off.
- VIEW** — Defines the coordinates of a specified block (called the "viewport") on the screen.
- VIEWPORT** — Draws a viewport, which then becomes the current graphics screen.

Installation is Fast

The Graphics BASIC memory board contains 32,000 characters of dedicated memory to store graphics data and is installed on the Model II in an unused slot. Includes user's manual, 8" diskette with Graphics BASIC, and subroutine library.

Model II Graphics Option. 26-4104 . . . 499.00*

*Prices do not include required installation.

WORD PROCESSING, FILING AND PLANNING PROGRAMS

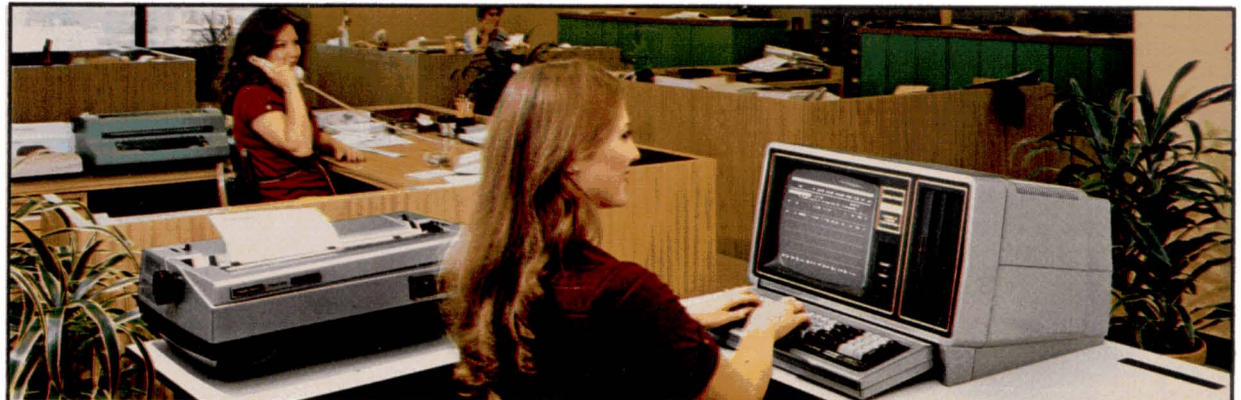


SCRIPSIT 2.0 Word Processing

The latest version of our powerful word processing system for the TRS-80 Model II will speed up any job you are doing now on a typewriter. It's easy to learn and use, with "plain English" prompts and menus that put advanced editing capabilities at your fingertips! Since SCRIPSIT will display up to 22 lines of up to 80 characters on the TRS-80 screen, it's much easier to use than "smart" typewriters

that give you only a one-line display. Letters, reports and manuscripts can be written and edited right on the display screen. Then, with an optional printer, you can print as many "letter perfect" copies as you want, at an incredible 500-plus words per minute. Frequently used reports, forms or paragraphs can be stored for use again and again — and updated at any time. SCRIPSIT has many "extra" features including automatic block moving and duplication, easy page numbering and renumbering, plus an information line that keeps track of cursor position, margins, line spacing and page number. SCRIPSIT's Global Search mode will locate a specific word wherever it occurs in your text for selective editing. Floating format and reverse indentation make it easy to set up tables and special formats. You can define up to 20 keys for individualized use — to reprint words and phrases or to access special functions. You can also store up to 11 formats that you use often and select the one you want with just a few keystrokes — a real timesaver for the busy typist! SCRIPSIT offers full headers and footers, as well as underlining, subscripts, superscripts and bold-face, depending on the printer you choose. Allows loading and storing of ASCII text files. Stores up to 320,000 characters on each diskette with a one-disk Model II system — plus up to 400,000 characters on each external drive you add to your Model II system. SCRIPSIT's "background" feature even lets you print one document while you're typing or editing a different one. Add a second drive to use the SCRIPSIT Spelling and Hyphenation Dictionary — and you can even "merge" names, addresses and information from our Mailing List II or Profile II (electronic filing) programs for fast, automatic printout of form-type letters. Includes a superb manual as well as a self-paced training course on audio cassette tape. Requires 64K TRS-80 Model II. See pages 38 to 41 for printers 26-4531 399.00

SCRIPSIT Dictionary. Automatic "proofreading" for SCRIPSIT! Contains over 100,000 words, abbreviations, proper names, contractions and foreign words with hyphenation points. Checks and displays your text on the screen with misspelled words highlighted. You can add up to 2000 words that are used in your profession — medical, legal, engineering, scientific terms, etc. Requires SCRIPSIT 2.0, one external disk drive. 26-4534 199.00



This complete TRS-80 system costs less than most dedicated word processors, yet gives you more — the 64K TRS-80 Model II Computer (26-4002) will handle a variety of business and technical jobs in addition to word processing! Includes our "electric typewriter quality" Daisy Wheel II Printer (26-1158), Cable (26-4401), Printer Stand (26-4302) and TRS-80 System Desk (26-4301).

**Complete Word
Processing System**
6416⁰⁰

Profile II

One of our most popular programs — an electronic filing system that can search through your records to find just the files you want — in seconds! Keep track of names and addresses, accounts, bills owed and paid, personnel or customer records and more. You specify the way your files are set up and how information appears on the screen and printed reports. Profile II even includes options that restrict unauthorized users from accessing confidential files. Store up to 99 data fields in a single record, and print up to five different reports for each file. Reports can include automatic page numbers, current date and column totals. With two or more disk drives, Profile II can merge with SCRIPSIT to provide names, addresses and other data to be included in your letters and reports. Stores up to 3000 records with a one-disk 64K Model II system, up to 20,000 with external disk drives. 26-4512 179.00

Profile Plus. An expanded version of Profile II with a number of sensational "extras." Allows arithmetic operations — up to 16 equations of 63 characters each — and lets you switch between any of your five screens. Create customized menus. Index your file in logical order for high speed access to records. Selectable record lengths prevent wasted disk space and increase the maximum number of multi-segment records. 26-4515 299.00

Profile Upgrade. For owners of Profile II. Adds all of the features of Profile Plus. 26-4517 120.00

Profile Training. Gives you a working knowledge of the endless capabilities of Profile II by taking you through a carefully sequenced, step-by-step learning experience. Four audio cassettes with an excellent 96-page manual. 26-4516 69.00

VisiCalc™

Designed for the decision-maker, VisiCalc is an amazingly efficient management planning tool that can be used for everything from corporate finances to engineering work and family budgets. Computer experience is not required. With VisiCalc, the TRS-80 screen becomes a window through which you view a section of an electronic "worksheet" organized in columns and rows. In each "entry position" you can insert a description, number or formula. VisiCalc goes to work when you alter a number previously "written" on your worksheet — the related numbers change before your eyes as the program instantly recalculates every affected item! For example, you can enter the projected cost of a new employee into a VisiCalc worksheet containing current and projected profit and loss figures. VisiCalc will then recalculate every related figure to show the effect of your addition. Quick "What if . . ." studies like this can give you an effective way to predict the results of important decisions. What might take hours with pencil, eraser, calculator and columnar pad is performed in seconds with VisiCalc! Editing is easy and there are built-in math functions for speedy solutions to complex engineering problems. You can also produce simple graphs, and of course save your "worksheets" on disk for future use. Requires one-disk 64K TRS-80 Model II. For printed copies of your worksheets you can add a TRS-80 Line Printer. 26-4511 299.00

Versatile

Permits anyone to create a computerized filing system — no computer experience is needed! Lets you store almost any type of data — you simply type in a sentence. To retrieve information, just type a question containing one or more "key words." Global search function locates any word or phrase. With a TRS-80 printer, you can print all or any portion of the files. 26-4510 69.00

STREAMLINE ACCOUNTING WITH A TRS-80 BUSINESS SYSTEM

A TRS-80 Model II computer system can tighten up receivables, control disbursements, keep a close watch on payroll and budgets, and help you with your inventory control. Your company's operations will be faster, more efficient, and more accurate — and that can help you save money.

Don't know how to program? That's fine. At Radio Shack, we know you have more important things to do than to learn how to program. So we've made sure these software packages are easy to use — and ready to run when you buy them. What's more, with additional disk drives, they form an "economical" interactive system if you add one additional disk drive for only \$1150. Each comes with a very thorough instruction manual that will guide you step-by-step through every important function and will describe day-to-day operation.

Anyone in your office can easily learn to use our powerful Model II business and accounting software. Supplied on 8" diskettes with a comprehensive manual, all programs require a 64K Model II and 15"-wide, 132-column printer.

Payroll

A comprehensive system designed for utmost user flexibility and convenience. Handles up to 200 employees. Nine earning, nine deduction, and seven workman's compensation categories. Calculates state and city, or federal withholding tax, plus earned income credit. Prints Payroll Checks, Payroll Check Register, and W-2 forms, as well as automatic monthly, quarterly, and annual journals. Automatic out-of-balance detection. Easy error correction and recovery. Optional time card calculations with automatic overtime. Multi-drive update to General Ledger (26-4501). 26-4503 399.00

General Ledger

A powerful, labor-saving system that does away with tedious paperwork. Handles up to 504 accounts, up to 11,420 entries per month. Seven optional expense categories and user-defined account numbers. Automatic out-of-balance detection, entry totaling, and document balancing. Automatic well-defined audit trails. Controlled inputs for error prevention and rapid entries. Easy document correction and error recovery.

ery. Reports include: Charts of Accounts, Trial Balance, Document List, Posting Summaries, Ledger Detail Report, Income Statement, and Balance. Full reporting capabilities allow you instant access to your financial status at any time. Multi-drive update from Payroll (26-4503) Accounts Receivable (26-4504) and Accounts Payable (26-4505). 26-4501 199.00

Accounts Payable

Designed for maximum flexibility and ease of operation. Prints checks, cash requirements, aging reports, and totals. Compatible with either Cash or Accrual Accounting methods. Easy maintenance of accounts for up to 500 vendors and 3000 invoices. Reports include: General Ledger Codes, Vendor Listing, Invoice Listing, Posting Report (with GL totals), General Ledger Recap, Cash Requirements (which annotates all invoices which are within five days of losing a Discount), Aging Status, Check Preview, Check Register, Discount Lost Report, GL Totals after Check Printing, End of Period Processing (with GL totals) and Year End Report. Multi-drive update to General Ledger (26-4501). 26-4505 299.00

Accounts Receivable

A complete invoicing and monthly statement system, this comprehensive package lets you tailor its functions to your specific business requirements. Allows "open item" and "balance forward" accounts, and generates both Summary Aging and Detail Aging reports. Generates monthly statements and prints invoices. Flexible open credit reconciliation. Add additional disk drives for increased capacity and automatic update of General Ledger (26-4501). 26-4504 299.00

Mailing List II

Designed to make the secretary's life much easier! Stores names and addresses which can be revised at any time — up to 3000 names or 2000 names with a "comment" line. Each name may be assigned up to eight special categories. Choose alphabetical or Zip Code order. Any number of address labels may be selected and printed. Five different label sizes. With a second disk drive, names and addresses can be MERGED with SCRIPSIT (26-4531) for perfect form letters. 26-4507 119.00

This affordable TRS-80 Model II "Basic Business" system is ideal for many office needs. It includes the 64K Model II (26-4002) with 416,000 free bytes of disk storage, Line Printer VI (26-1166), and Printer Cable (26-4401). Desk not included.

System As Shown

5098⁰⁰



EXPANDED PROGRAMS FOR GREATER BUSINESS CONTROL

3-Disk Business Packages

Each of the programs on this page requires the 64K TRS-80 Model II, 2-Drive Disk Expansion Unit and 15-inch wide tractor-feed printer. Programs are written in COBOL, and source code is available at extra cost after signing a special license agreement. Because of the operation of the ISAM file system, capacities stated here are only approximate. These packages can also be transferred to hard disk, giving them much greater capacities.

General Ledger

A superb "total" system that will interact with 3-Disk Accounts Payable, Payroll and Accounts Receivable programs (below). Features an easy-to-maintain control file that allows you to use multiple profit centers. Reports include: Chart of Accounts, Financial Statements, General Journal Transaction Register, General Ledger Trial Balance for any specified period, General Ledger Worksheet, General Ledger Source Cross Reference (shows entries for each source), Income Statement, Balance Sheet, Supporting Schedules, Statements of Cash Flow, Changes in Financial Position and Changes in Components of Working Capital. Holds up to 400 accounts and 4300 year-to-date detail entries. 26-4601 499.00

Accounts Payable

An accrual system that will interface with the 3-Disk General Ledger system (above). Reports include: Vendor File, Alphabetical Vendor List, Accounts Payable Transaction Register, Accounts Payable Aging, Cash Requirements, Pre-Check Writing Accounts Payable Check Register, General Ledger Distribution, Vendor Analysis, Check Reconciliation and Job Distribution. Holds up to 1500 vendors, 800 open payable items, 5000 General Ledger distributions. 26-4605 499.00

Payroll

A complete, time-saving payroll system that calculates and prints checks and provides distribution to multiple General Ledger accounts (interacts with 3-Disk General Ledger, above). The program gives you efficient handling of hourly and salaried employees and permits seven pay frequencies. Provides a wide variety of special earnings and deductions categories and allows entry of manually prepared checks and adjustments. Lets you track vacation and sick pay and recall up to one year of detailed pay history. Tables for federal, state and local withholding taxes are easy to maintain. Prints federal, state and local

withholding reports; W-2 forms, payroll worksheets, check register and more. Handles up to 200 employees per year. 26-4603 (Avail. 5/30/82) 599.00

Accounts Receivable

An open item and/or balance forward system that will interface with Radio Shack's 3-Disk General Ledger as well as our Order Entry/ICS (26-4607) and Sales Analysis program (26-4608). The program prints Aging Report (with or without detail) for all or selected customers. It provides a General Ledger Distribution Report and allows easy access to frequently used General Ledger accounts for rapid entries. Prints a Cash Application Worksheet, showing balance owing, the valid discount and the net amount due from each customer. Optional user-defined features include: Accumulating revenue and expense by profit center (product line); Calculation and addition of sales tax based on customer tax code; Calculation of commissions and printing commissions due report; and more. Stores up to 800 accounts, 2500 transactions. 26-4604 499.00

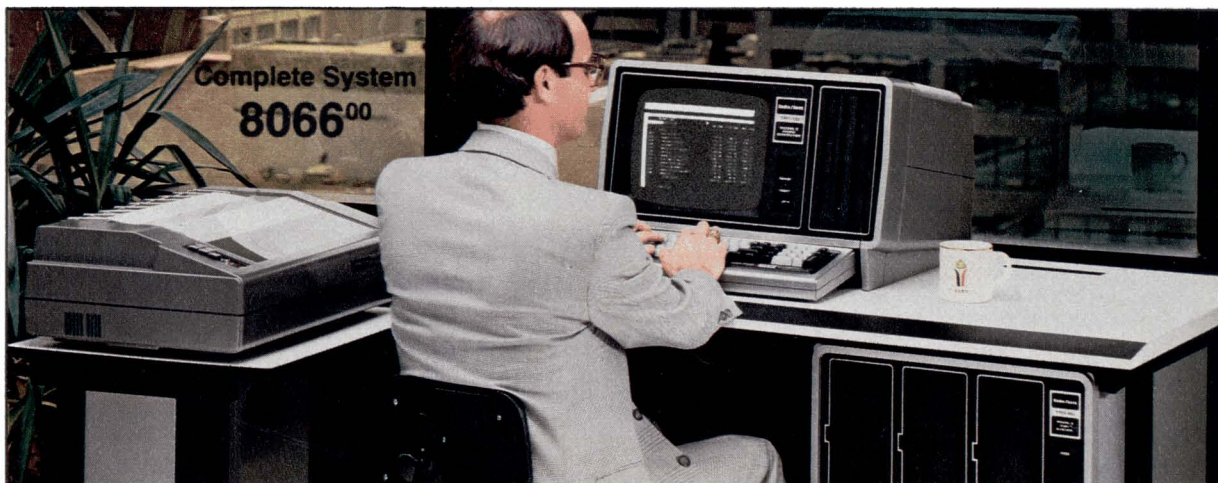
Order Entry/ICS

Allows both single-pass invoicing and two-pass open order entry with separate billing. Will run in conjunction with the 3-Disk Accounts Receivable (26-4604, four disk drives required). Allows maintenance of the

item file and prints a Numeric Item List and an Alphabetic Item List. Orders can be entered and edited on request. The program also provides entry and editing of inventory receiving transactions and prints an Item Receivings Register. Allows selective billing of open orders and prints a Billing Edit List. Also prints: Picking Tickets; Order Edit List; Price List; Item Stock Status Report; Purchasing Advice Report; Sales Analysis by Item, by Product Category and by Item Sales Volume. Has full backorder retention and control, and prints back orders by item and by customer. Maintains 1500 items. 26-4607 499.00

Sales Analysis

Gives you an effective way to examine and evaluate sales information for your company. Data is obtained from the customer file of the Accounts Receivable program (26-4604) or the item file of the Order Entry/ICS program (26-4607). The program prints eight reports, each of which shows sales activity from a different perspective — by customer, by customer type, by customer sales volume, by salesman, by state, by item, by item category or by item sales volume. Reports can show sales, percent of sales, cost of sales, profit and percent of profit. The figures are presented for both period-to-date and year-to-date. 26-4608 299.00



A high performance TRS-80 Model II system that's ideal for these and other business applications. Includes 64K TRS-80 Model II (26-4002), 2-Drive Disk Expansion Unit (26-4161), TRS-80 Line Printer V (26-1165), Cable (26-4401), Stand (26-4302), and TRS-80 System Desk (26-4301).



This TRS-80 system includes: 64K Model II (26-4002), 3-drive external disk system (26-4162) for a total of 1,874,000 free bytes of disk storage, Line Printer V (26-1165), Printer Cable (26-4401).

System As Shown
8148⁰⁰

MEDICAL OFFICE SOFTWARE

The Radio Shack Medical Office System is designed to provide the individual practitioner or group practice with a fast and efficient system for collecting and managing accounts receivable. Handles records and billing for up to 3000 accounts and 9000 transactions per month. Features 450 procedures and diagnoses, 4 recall medications, 2 recall dates, and 2 insurance companies per patient. Produces monthly statements, insurance forms, daily recap, transaction review, aged accounts receivable, procedure and diagnosis reports. The system will provide complete audit trails and detailed reports for you, cutting the amount of time you presently spend on accounting and preparing statistical reports. Requires a minimum of one External Disk Drive. Customized letters and mailing labels using Profile II (26-4512) and SCRIPSIT (26-4531) and extra external disk drive.

26-4508 750.00

SOFTWARE FOR THE LEGAL OFFICE

Time Accounting

Detailed time analysis of jobs performed by up to 14 professionals. A must when exact billing information is needed. Handles up to 1000 clients, 500 jobs, 2950 transactions, and 99 charge code categories. Tracks billable and non-billable time, cost of each individual's time; billable and non-billable expenses, amounts billed, amounts paid, and more. Requires 3 External Disk Drives. 26-4520 499.00

WESTLAW™

This package (and registration with the WESTLAW system) gives you access to WESTLAW's powerful "electronic" legal research library. This interactive system lets you enter words relevant to your case. WESTLAW searches among synopses, headnotes, and the full text of opinions

for a similar case. You also have access to West's Topic and Key Numbers, Shepard's Citations, West's Bankruptcy Reporter, federal court decisions, federal tax files, and the United States Code. Requires 1200-baud modem.

26-4560 249.00

Litigation Support

A versatile filing system for the attorney. Enter client's background, case history, and correspondence. Store up to 350 client records, 12 pleas, 10 memos. Program doubles as a paralegal. Type in a subject, topic, case number or keyword, and matching records are displayed. Store up to 575 records, 144 characters for sources, 255 characters for description. Complete report generation. Merge names and addresses with form letters using SCRIPSIT (26-4531) and extra disk drive.

26-4545 299.00

Contractors Software

Job Costing

Enables small construction companies to accurately track the progress and cost of each job. Expenses are entered as they are incurred and are posted to each task by cost category. Detailed and summary information is available on each job. As jobs are completed, year-to-date profit and loss is maintained on disk for one year. 26-4513 149.00

Important Software Notice

All Radio Shack computer programs are licensed on an "as is" basis, without warranty. Radio Shack shall have no liability or responsibility for any loss or damage caused or alleged to be caused directly or indirectly by computer equipment or programs sold by Radio Shack, including but not limited to any interruption of service, loss of business or anticipatory profits or consequential damages resulting from the use or operation of such computer or computer programs.

SOFTWARE TO HELP STREAMLINE YOUR BUSINESS

Inventory Management System

Handles up to 3000 items, 200 vendors, and 999,999 on-hand quantities. Projects your reorder needs based on analysis of past performance and sales trends. Reports include: Master Inventory List, Vendor Listing, Transaction Posting Report, Suggested Order List, ABC Code Analysis, Physical Inventory Worksheets, Physical Inventory Error Report, and Inventory Performance Report. 26-4502 199.00

Inventory Control System (ICS)

This efficient and easy-to-implement inventory management system has features that allow you to custom-design your own reports. The program posts receipts, prepares labels and gives you complete maintenance of the referenced files — add, delete, inquire/edit and list. Prints purchase orders by P.O. number and six major reports — Master List, Vendor List, Items with a Zero Reorder Point, Price List, Open Purchase Orders and Cost Inventory. Handles up to 3000 inventory items with 2 disk drives, 6000 with 3 disks, and 9000 with a 4-disk system. 26-4602 299.00

Electronic Broker™

Maintains securities transaction records for stockbrokers, investment advisors, accountants, and small bank trust departments. The Electronic Broker organizes your account bookkeeping with flexibility and ease. Builds three libraries of information — a library of up to 500 accounts, a library of up to 500 securities and an ongoing transaction file. The transaction file produces well-organized, mathematically accurate screen and printed reports. Additionally, the programs print a purchase and sell blotter, and a liquidations report as an audit trail. (Requires 1 to 3 External Disk Drives.) 26-4525 995.00

Statistical Analysis

Programs for descriptive statistics, graphic histogram, frequency distribution, one and two-way analysis of variance, one-way analysis of

covariance, correlation matrix, chi-square analysis, time series analysis, multiple regression, random data samples, and item analysis and test/survey scoring. Easily prepare, update, and print your data files. 26-4540 99.00

Personnel Search

Helps match employers with potential employees. Stores up to 246 records, with up to five referral and placement positions and five client contacted companies. Up to 66 characters for employer benefits, 227 characters for employee duties. Prints reports, plus two mailing labels. 26-4621 299.00

Manufacturing Inventory System

Review inventory, establish a cycle counting procedure, process inventory transactions, describe parts and quantities required to produce finished goods, determine the status and dollar value of orders, track work in progress, estimate order completion dates, labor and material requirements, and more. Requires 2 External Disk Drives. 26-4509 750.00

Order Entry With Inventory Control

A unique package that will interface with and become a vital part of the Model II Accounts Receivable program (#26-4504). The program reduces duplication of efforts, and saves time in filling orders, producing invoices and posting sales and adjustments to each customer account. Designed primarily for non-manufacturing distributors that maintain up to 650 accounts in accounts receivable and up to 2000 items in inventory. Requires 3 External Disk Drives. 26-4514 199.00

Mailing List II

Stores names and addresses which can be revised at any time — up to 3000 names or 2000 names with a "comment" line. Each name may be assigned up to eight special categories. Choose alphabetical or Zip Code order. Five different label sizes. With a second disk drive, names and addresses can be "merged" with SCRIPSIT (26-4531) for perfect form letters. 26-4507 119.00



This TRS-80 system includes: 64K Model II (26-4002), 3-drive external disk system (26-4162) for a total of 1,874,000 free bytes of disk storage, Line Printer V (26-1165), Printer Cable (26-4401), System Desk (26-4301), and Printer Stand (26-4302).

System As Shown
8666⁰⁰

Note: These programs require 64K Model II only, except as indicated.

ADVANCED PROGRAMMING AND COMMUNICATIONS SOFTWARE

Assembly Language Development System

A powerful package for developing Assembly Language programs. The features of each module include:

EDITOR — Full-screen editor with global find/change, print on video or printer, execute most TRSDOS commands without exiting editor, and load single file or chain multiple files together.

ASSEMBLER — Supports IX and IY registers, separately-linkable multiple program sections, relocatable/absolute object, macros and sorted cross references list, enhanced mnemonic op codes, conditional assembly with optional assembly time prompting, and support of standard ZILOG® Z-80 and undocumented mnemonics.

LINKER — Indirect command file, optional module cross reference, entry point, and symbol listing.

DEBUGGER — Find/examine/change memory by HEX or ASCII, copy memory to memory or fill memory with constant, two independent memory displays and one register dump on screen. Permanent/temporary break points plus single step, and examine/modify disk files by record or relative sector.

FILE TRANSFER — Automatic multi-file transfers between any TRS-80 models, converts files to target machine's format, automatic SETCOM with default control file, transfers source, data object and program files, automatic synchronization (either end responds first) and file names may be given directly, by "wild card" or by indirect command file.

Requires 64K TRS-80 Model II. Avail. 5/30/82.
26-4712 249.00

Program Editor

This package can be used with any of our TRS-80 Model II languages. It consists of a powerful set of subcommands which simplifies source program editing. When you're editing large programs, the Program Editor is a fast and efficient way to modify your source-code. Editing commands allow you to easily modify, delete and insert characters or lines. Global search locates selected text strings throughout the program and makes changes automatically. Line numbers are optional, and tabs are set automatically for the requirements of each language. File record formats are user selectable. Requires 64K TRS-80 Model II. 26-4710 79.00

Editor/Assembler

The Macro Editor/Assembler allows the advanced programmer to quickly write, edit, test, assemble, and execute programs in Assembly Language. Features include the use of either 8080 or Z-80 mnemonics, plus constants can be specified in octal, hexadecimal or binary. Commands are simple and straight-forward. The text editor is both line-oriented and character-oriented. A utility program will provide a source listing, plus list to the printer or display any text file. Assembly Language programs and subroutines are edited and assembled, a relocatable object code is generated and stored on disk to be recalled later by the linking loader, loaded into memory and executed. Includes User's Manuals and sample program. 26-4702 199.00

Editor/Assembler, Series I

Lets you program in machine language for faster execution and more efficient memory use. Editor features automatic line numbering, line renumbering, single-letter commands, global search, plus the source text may be saved in disk files and source files may be loaded together in memory. Assembler features these options: "wait on error," "no symbol table," "list to printer," and "trial assembly," plus labels up to six characters, and eight pseudo-ops. Requires 64K TRS-80 Model II. 26-4713 49.95

ReformaTter™

Now programs and data for use with IBM equipment can be prepared using the TRS-80 Model II.

ReformaTter handles the transfer of files between TRSDOS and IBM-compatible diskettes. It organizes data to conform to the 3741 single-density IBM format, performs optional EBCDIC/ASCII character conversion, and automatically initializes diskettes to the IBM format, including all necessary fields, eliminating the need for specially pre-formatted diskettes.

You have full control over all aspects of an IBM diskette with ReformaTter. Creation/expiration date, record length, beginning of extent, end of extent, write protect, accessibility, and bypass and verify fields can all be modified. Also, any "data set" label can be renamed, and even deleted data sets can be reactivated. ReformaTter allows you to examine and alter existing data on an IBM diskette directly without transferring the data to a TRSDOS diskette — so you save time and money. And the convenient menu presentation and descriptive prompting messages make it easy to learn and use. Requires 64K TRS-80 Model II with two or more disk drives. 26-4714 249.00

Binary Synchronous Communications 3270

This program lets your TRS-80 Model II emulate an IBM 3270/3271/3275/3277 display station.

The Model II can communicate to a remote computer, using standard IBM Binary Synchronous (BSC) protocol for the IBM 3271 or 3275. Such remote computers include IBM Systems 360/370 and 30-Series Central Processing Units, plus non-IBM devices equipped with BSC-3270 communications capability.

All functions of an IBM 3270 display station are provided for, including screen formatting, polling responses, data link control, time out control, and cyclic redundancy checking.

A TRS-80 Model II equipped with the bisync-3270 program may be used interactively with systems such as IBM's CICS, VM/CMS and IMS, plus with other remote systems that support IBM 3271 or 3275 terminals.

Bisync 3270 communicates in half-duplex mode and may operate at data rates up to 19,200-baud depending on the type of communications connection used. Requires 64K TRS-80 Model II, modification of the "A" serial port (extra charge), and the Editor/Assembler (26-4702) may be used for mode reconfiguration. 26-4715 995.00

IBM/DEC® 3780-Compatible Binary Synchronous Communications

With this communications program, your TRS-80 Model II can function as an IBM-compatible remote terminal or a Remote Job Entry (RJE) terminal connected to a mainframe computer.

Bisync-3780 allows the selection of IBM 2770, 2780, 3741, or 3780 terminal protocols for communicating with the IBM Systems 360/370 and 30-Series computers, IBM 2780 and 3780 terminals, DEC PDP-11 or VAX-11 computers, and other devices equipped with bisynchronous communications ability.

Commands and options are provided which permit you to: send one or a series of files to a remote, receive data from the remote onto a printer or disk files, automatically convert between EBCDIC and ASCII codes, transmit or receive character coded data in transparent or non-transparent modes, automatically pad or truncate records to match transmitted data to required protocol, and decode printer forms-control commands.

Bisync-3780 communicates in half-duplex mode and may operate at data rates up to 19,200-baud depending on the type of communications connection used. Requires 64K TRS-80 Model II, modification of the "A" serial port (extra charge). The Editor/Assembler (26-4702) may be required if mode reconfiguration is needed. 26-4716 995.00

CHOOSE THE MODEL II LANGUAGES YOU NEED FOR PROGRAM DEVELOPMENT

Language Versatility! That's what you get with TRS-80 Model II. Radio Shack has developed several languages — each with a particular need in mind — for the Model II computer system. These reasonably-priced languages enable you to purchase our complete package at a fraction of the cost you'd expect to pay just to lease from others!

The TRS-80 Model II adapts easily to your choice of languages because the system has no primary language stored in Read Only Memory. You simply choose your language, load the disk, and you're all set!

Now, just look at what's available to you! For practically any business application, there's our Model II COBOL Development System. For scientific and technical problems, we have Model II FORTRAN. And for general purpose use and ease of programming, there's Model II Compiler BASIC.

Complete program documentation is included with each language package.

COBOL Development System

COMmon Business Oriented Language is specifically designed for business and accounting applications. TRS-80 Model II COBOL is a high-level implementation of the ANSI-74 COBOL standard for mini-computers. Its features include multi-keyed ISAM for quick access of data, interactive DEBUG for program development and testing with address stop, single step and variable display, CRT control with extended ACCEPT/DISPLAY commands for attractive screen formatting, and full level-2 Input/Output commands. It has an Editor for creating and changing source programs, and a single-pass Compiler which generates an object code for fast execution by the Run-Time Diskette. Supplied on a single diskette with deluxe binder and includes User's Guide, COBOL Language Manual, Run Time package, and sample programs. Requires 64K TRS-80 Model II. 26-4703 299.00

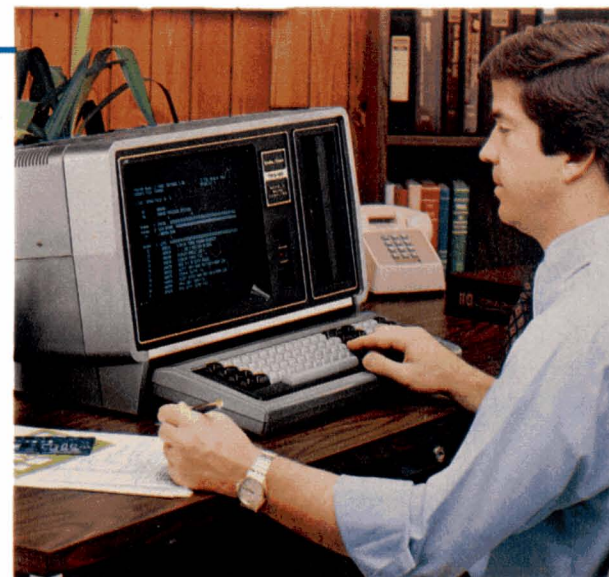
***COBOL Run-Time Diskette.** For distribution of the COBOL programs you write yourself. 26-4704 40.00

COBOL Generator

Reduce your COBOL development time. The Radio Shack COBOL Generator allows a programmer to define a complete software package and then generates a COBOL Source Program automatically. This Source Code may then be compiled using Radio Shack's COBOL Development System (26-4703) on the TRS-80 Model II. Without writing a single line of code, you have a software system up and running about as fast as you can visualize it. Using a dictionary facility, you supply information on files, data fields, validation rules and editing formats. Then define data entry screen formats, simple query screens and printed reports. An easy-to-use COBOL editor allows the modification of COBOL source code if you desire to add customized logic. Requires a 64K TRS-80 Model II with one additional disk drive and the COBOL Development System. 26-4707 995.00

Compiler BASIC

Beginner's All-purpose Symbolic Instruction Code is designed for the development and fast execution of applications programs. It lets you program in the familiar BASIC language, then once compiled, most programs execute several times faster than an interpreter like Model II BASIC. If you're developing programs to sell, compiled programs protect your code against modifications. Compiler BASIC is similar to Model II BASIC but with some powerful extensions. It features a single-key ISAM to help organize and retrieve data, a cross reference and interactive DEBUG to speed program development, easy calls to assembly language or other object programs, 14-digit floating point decimal format for extra accuracy, full error control, complete CRT control, and a single-pass compiler that generates object programs for fast, efficient execution by the Run-Time Diskette. (Note: Compiler BASIC is intended for program development and not for conversion of existing software.) Includes Editor, Compiler, Run Time package, and a detailed reference manual showing the steps of operating, compiling, running and saving programs. Requires 64K TRS-80 Model II. 26-4705 199.00



***Compiler BASIC Run-Time Diskette.** For distribution of the Compiled BASIC programs you write yourself. 26-4706 30.00

FORTRAN

FORmula TRANslator is a universal, problem-oriented programming language designed primarily for scientific or technical problems expressible in algebraic notation. It requires the programmer to fully define the characteristics of a problem in a series of precise statements, and is designed to simplify the preparation and checkout of computational computer programs. The TRS-80 Model II FORTRAN is based on the ANSI-66 standard and features complete error documentation in compiler, and hex and octal addresses for compiler listing. The program has five modules consisting of the Editor, Compiler, Linking Loader, Subroutine Library, and a Source and Listing File Print Utility. Supplied on a single diskette with deluxe binder and includes the User's Manual, along with language, linking loader and editor guides, and sample programs. Requires 64K TRS-80 Model II. 26-4701 299.00

***NOTE:** Run-Time Diskettes are available separately for those who intend to sell software developed on our compilers. You don't need to purchase a separate Run-Time Diskette for your own use.

TRS-80 LINE PRINTERS & ACCESSORIES

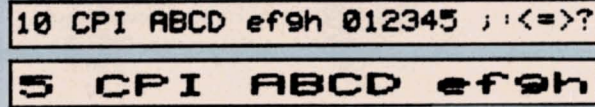


Low-Cost, Full-Performance Printer With Dot-Addressable Graphics

399⁰⁰

Line Printer VII

The benefits of a much higher-priced printer! Serial interface works directly with Color Computer. Bit Image mode allows printing of high-density graphic information, similar to that on the Color Computer screen. (See screen print software below.) Prints 80 upper and lower case 5x7 matrix characters on an 8" line. Provides parallel interface for use with Models I, II, III. Adjustable tractor, 4½ to 9½". Uses standard 9½" fanfold paper. Includes re-inking ribbon cassette. U.L. listed. 26-1167 399.00



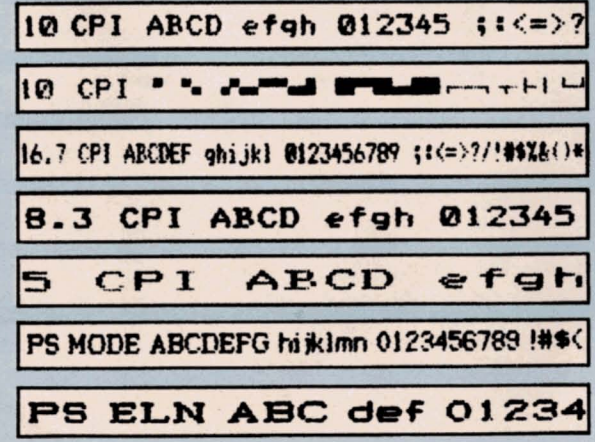
Specifications. *Print Density:* 5 or 10 characters per inch. *Graphic Density:* 3780 dots/sq. in. *Print Speed:* 30 characters per second, 16 lines per minute. *Character Set:* 96 ASCII. *Bit Image:* 480 addressable 7-dot cols. *Dimensions:* 5.32x16x8.25" *Weight:* 8.6 lbs. *Power:* 120VAC, 60 Hz, 85W.

Our Newest Printer Offers a Variety of Features

A compact, high-density dot-matrix impact printer! The 9-wire head prints near letter-quality, proportionally-spaced characters. Good-looking 9x8 monospaced characters, normally at 10 cpi (80 char. per line), can be elongated or condensed. Proportional characters and bit image dot information can be elongated — offering a wide range of character styles. Features full or half-line forward and reverse; underline capability; superscript, subscript capability; upper and lower case English letters, European symbols, and block graphic characters; selectable parallel or serial interface. Uses 9½" fanfold, single sheet and roll paper. On-Line/Off-Line, Restart/Reset controls. Power LED. U.L. listed. 26-1168 799.00

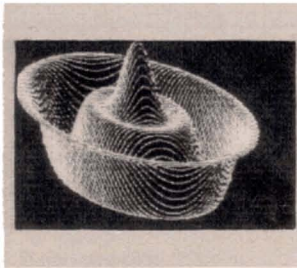
Specifications. *Print Density:* 4.35 to 22.2 characters per inch. *Graphic Density:* 4320 dots/sq. in. *Print Speed:* 40 to 100 characters per second, 23 80-col. lines per minute. *Character Set:* 96 ASCII + 32 international and 30 graphic. *Bit Image:* 480 addressable double 7-dot cols. per line. *Fixed Pin Feed:* for Standard 9½" fanfold paper. *Dimensions:* 4.7x15.4x11" *Weight:* 16.5 lbs. *Power:* 120VAC, 60 Hz, 85W.

799⁰⁰ Line Printer VIII



Cassette Screen Print Program

Designed to print (in black-and-white) contents of the TRS-80 Color Computer display memory if you're in one of the three two-color high resolution modes. For use with above printers. 16K Extended BASIC, cassette recorder req'd. 26-3021 4.95



Paper Supplies

- 9½" Green Bar Fanfold. 3100 Sheets. 26-1403 37.95
- 14½" Green Bar Fanfold. 3200 Sheets. 26-1417 49.95
- 9½" White Fanfold. 500 Sheets. 26-1423 7.95
- 8½" White Roll Paper. 2 Rolls. 26-1402 19.95
- 2400 Dry Gum Labels. 2 up, 9½" Fanfold Sheets. 26-1456 9.95
- 4000 Mailing Labels. 26-1404 19.95

See pages 14-16 for complete listing of printer accessories

PROFESSIONAL-QUALITY LINE PRINTERS

Our Best! For Heavy Business Use

1860⁰⁰ Line Printer V

A high-speed, bidirectional, logic-seeking dot-matrix printer! A 9-wire head prints quality upper and lower case characters, with descenders, 132 columns wide. Tractor mechanism handles fanfold computer paper up to 15" wide, up to 5 sheets. Paper advance in fine-line increments for aligning preprinted forms. Features underlining, 26 European characters, 30 graphic patterns. Includes standard parallel interface. Automatic Paper-Out sensor stops printer when paper runs out. Has manual controls for LINE-FEED, 1/8 LINE (FWD/REV), SELF-TEST. On-Line/Off-Line switch. U.L. listed. 26-1165 1860.00

Specifications. *Print Density:* 5, 7.5, 10, 15 plus Bold 10 cpi, software selectable. *Line Length:* 13.2" *Print Speed:* 160 characters per second, 60 lines per minute, 100 80-col. lines per minute. *Dimensions:* 7 7/8" x 24 3/4" x 15 9/16" *Weight:* 42 lbs. *Power:* 120VAC, 60 Hz, 85W.



Great Low Price! Full 132-Column Capacity

1160⁰⁰ Line Printer VI

Low price on a full-feature 15-inch wide impact printer! Compact, low-profile styling makes it an ideal printer for Model III. A 7-wire head prints up to 132 upper and lower case characters in 4 sizes, plus many graphic characters and symbols. Has bidirectional logic-seeking carriage. Removable, adjustable tractor feed allows use of friction feed. Uses 4" to 14 7/8" fanfold or single-sheet paper. Handles single to 3-part forms. Automatic Paper-Out sensor stops printer if paper runs out. Prints 40 80-col. lines per minute. Has standard parallel interface for connection to printer ports on TRS-80 Models I, II or III. Manual controls for LINE FEED, 1/2 LINE FEED, SELF-TEST, RESET. On-Line/Off-Line switch. Built exclusively to Radio Shack's demanding specifications. U.L. listed. 26-1166 1160.00

10 CPI ABCD efgh 01234 ;:;<=>?

10 CPI " ' & # \$ % & # \$ % & # \$ % & # \$ %

5 CPI ABCD efgh

15 CPI ABCD efgh 0123456789 ;:;<=>?!#%&'()*

7.5 CPI ABCD efgh 0123

Specifications. *Print Density:* 10 characters per inch; 5, 7.5, 15 characters per inch optional. *Print Speed:* 100 characters per second, 33 132-col. lines per minute. *Dimensions:* 24 1/2" x 6 3/4" x 13 3/16" *Weight:* 28 lbs. *Power:* 120VAC, 60 Hz, 85W.

10 CPI ABCD efgh 012345 ;:;<=>?

10 CPI " ' & # \$ % & # \$ % & # \$ % & # \$ %

10 CPI BOLD ABC def 012 ;:;<=>?

5 CPI ABC def ?

15 CPI ABCDEFGH ijklmno 0123456789 ;:;<=>?!#%\$

7.5 CPI ABC def 0123 ?

**7x9 Matrix for Good-Looking Copy
Plus Lower Case Descenders**

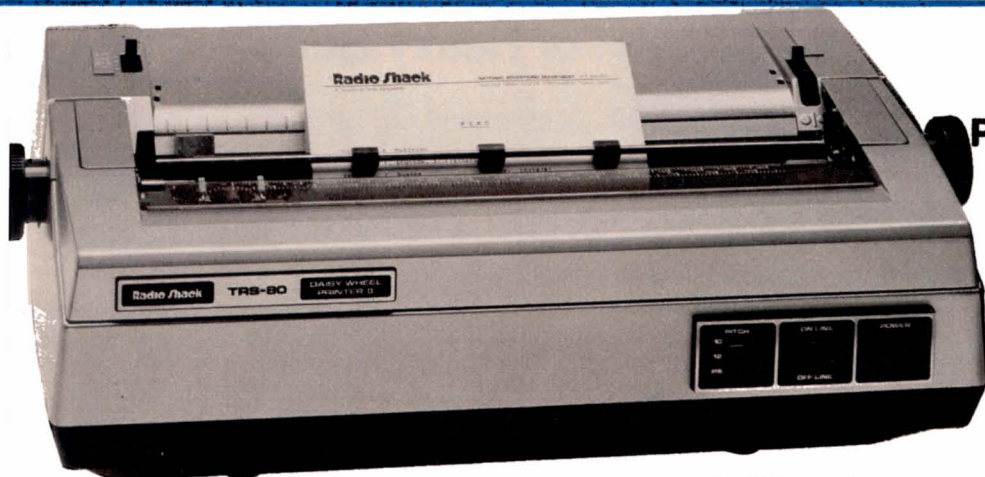
Replacement Ribbons

- Ribbon Cartridge for LP V.** 2 million characters. 26-1414 13.95
- Ribbon Cartridge for LP VI & VIII.** 1 million characters. 26-1418 11.95
- Ribbon for LP VII.** 1 million characters. 26-1424 8.95
- Model I, III Printer Cable.** 26-1401 39.00
- Model II Printer Cable.** 26-4401 39.00
- Color Computer Serial Interface Cable.** 26-3020 4.95

See pages 14-16 for complete listing of printer accessories.



DAISY-WHEEL II "LETTER-QUALITY" PRINTER



**Our Finest Quality
Word Processing
Printer Has "Electric
Typewriter Look"**

Prints Over
500 Words per Minute

1960⁰⁰

High-speed printer produces that crisp, clean "electric typewriter look" you want for your important documents. Interchangeable 124-character print wheels snap-in easily for different type faces. Each wheel prints up to 40-million characters. Printer features forward and reverse paper feed and 1/2-line feeds, underline, boldface, backspace. Friction-feed mechanism adjustable for up to five carbons. Switch selectable print densities (10 or 12 cpi, or proportional pitch). Includes "External Program Mode" to allow use of wheels with different pitch or special characters. Prints an average of 43 characters per second (500-plus words per minute). With Courier 10 print wheel and carbon ribbon cartridge.

Specifications

Print Density: 13.6" line; Switch selectable 10 cpi (136 characters per line) 12 cpi (163 cpl); or proportional spacing. *Appropriate print wheels required for proper appearance.* *Print Speed:* 43 cps nominal; 19.5 LPM at 10 cpi, 132-col. (Over 500 wpm minimum). *Carriage Motion:* Unidirectional, optimal motion seeking. *Character Set:* 124

(96 ASCII + special and international), 21 control codes. *Paper:* Up to 16" paper, original plus 5 copies. Friction feed. *Ribbon:* Multi-strike carbon cartridge — 250,000 nominal characters — may vary with text used. Nylon cartridge — 1.6 million characters. *Interface:* Standard 8 data bit parallel; 36-pin Amphenol connector. *Power:* 120 VAC, 50/60 Hz, 141 watts. U.L. listed. *Size:* 8x24 1/2 x 15 1/2". *Weight:* 28 lbs.

Printer Cable and Ribbon Cartridges

Printer Cables. For Models I, III. 26-1401 39.00
For Model II. 26-4401 39.00

Carbon Ribbon. Highest quality. 26-1419 ... 3/24.95

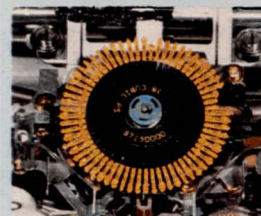
Nylon Ribbon. Long life. 26-1449 10.95

Acoustic Cover for Quiet Printing



Lid lifts for easy access. 14x28x21 1/2". Works with 26-1446, 1447. Not for 26-1448 or 26-1260. U.L. listed. 26-1455 399.00

Interchangeable Print Wheels Let You Print with Style



Snap-in print wheels make the TRS-80 Daisy Wheel II the right printer for a variety of applications. Each wheel features upper and lower case characters, punctuation marks and special characters.



Choose From a Variety of Wheels

A	ABCDEFGH abcdefg 01234 ;;<=>?
B	ABCDEFGHI abcdefgh 012345 ;;<=>?@
C	ABCDEFG abcdefghi 012345 ;;<=>?@
D	ABCDEFG abcdefghi 012345 ;;<=>?@
E	ABCDEFGHI abcdefgh 012345 ;;<=>?@
F	ABCDEFG abcdef 01234 !@#\$%
G	ABCDEFGH abcdefg 012345 !@#\$%^
H	ABCDEFGH abcdefg 012345 !@#\$%^

Pick the perfect print wheel for your use

A	Courier 10 pitch. 26-1420	29.95
B	Prestige Elite, 12 pitch. 26-1421	29.95
C	Madeleine PS. 26-1422	29.95
D	Cubic PS. 26-1425	29.95
E	Title Italic 12 pitch. 26-1426	29.95
F	OCR B. 26-1484	39.95
G	Letter Gothic, 12 pitch. 26-1485	39.95
H	Cubic 15. 26-1487	39.95

Accessories to Make Your Daisy Wheel II Even More Versatile and Efficient

Automatic Envelope Feeder for Daisy Wheel II

1195⁰⁰

Printer not included
Requires installation — not included

Holds up to 200 envelopes — sizes 6 to 10 — automatically feeds them into aligned typing position at a rate of up to 1200 per hour. Easily removed when not in use. 26-1260 ... 1195.00

Bi-Directional Tractor Feed for Your Printer

Adjustable Guides for Up to 15" Wide Paper **289⁹⁵**

Quick, easy installation and removal. Bi-directional control prevents jams when you move paper forward or backward. Sprocket control keeps paper perfectly aligned. Upper and lower paper separators. 26-1447 289.95



Printer not included

Automatic Sheet Feeder — The Ultimate in Convenience

Requires installation — not included
Printer not included

1495⁰⁰

Ideal for printing hundreds of letters on your own letterhead. Feeds and stacks up to 200 sheets. Removes for single sheet or tractor use. 8"x20 1/2 x 10 1/2". 26-1448 1495.00



TRS-80 PLOTTERS—FOR OUTSTANDING GRAPHICS

TRS-80 Plotter/Printer Uses Roll Paper for Graphs of Almost Unlimited Length



1460⁰⁰

Responds To Simple BASIC Commands

Program the TRS-80 Plotter/Printer with simple BASIC LPRINT statements, and it

will draw a wide assortment of straight or curved lines and geometric figures, as well as the standard ASCII text characters. Lets you create charts and graphs precisely the way you need them. An easily replaceable ballpoint pen serves as the writing device. Features include four character sizes and rotations, front panel control of pen and paper motion and simple vector commands for drawing varied straight lines, arcs, circles, triangles and rectangles. Standard parallel interface. U.L. listed.

26-1190 1460.00

Specifications

Printing Speed: Average 10 char/sec. Step Speed: 667 steps/sec. Step Size: 0.095525 mm, X&Y axes. Characters/Line: 80 char./7.3" Paper Size: 9" roll paper. Life of Ballpoint Pen: Approx. 500,000 characters. Power Requirements: 120 VAC, 60 Hz. Dimensions: 6¾x16x12¾" Weight: 13.2 lbs. without paper.

Now Get Single Sheet Graphics in Six Colors!



1995⁰⁰

Six Colors Add a Vivid New Dimension of Clarity To Charts and Graphs

Create color charts and graphs with the affordable TRS-80 Multi-Pen Plotter. With six standard ballpoint color pens — red, black, blue, green, violet and orange. RS-232 serial interface. Automatic pen selection, chart

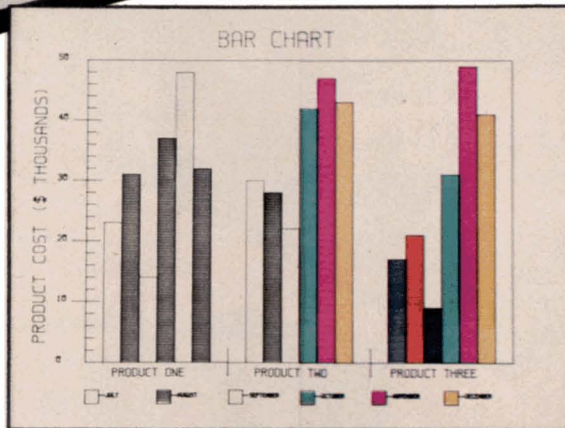
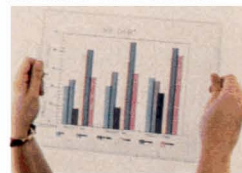
hold down, touch panel pen motion controls. Simple BASIC commands draw varied straight lines, arcs and circles. Exclusive software for disk systems to draw charts, save and recall, graphs, more. U.L. listed. 26-1191 1995.00

Specifications

Paper Size: 8.5x11" Plot Size: 7x10" Step Speed: 600 steps/sec. Step Size: 200/in. Power Requirements: 115VAC 50/60 Hz. Dimensions: 6x13½x10½" Weight: 20 pounds.

New! Clear Plastic Film for Multi-Pen Plotter

Use with felt tip pens to make transparencies for overhead projection, animation and overlays. 50 8½x11" sheets of 3 mil polyester film that resists tearing, yellowing and curling. 26-1479 13.95



New! TRS-80 Digitizer Offers Unique Data Input Capabilities

Works with Any TRS-80 with RS-232 Serial Port



Ideal for Engineering, Architectural Work, Drafting, Medical or Other Chart Analyses, and Much More

449⁰⁰

Place this unique instrument on a map, chart, or plan of any size. Works with an 11x17" area. Swivel head allows operation in vertical plane. Input coordinates quickly, easily to your computer. Measure areas, lengths, distances and more. Point and continuous modes. Includes software for basic applications. U.L. listed. 26-1195 449.00

Specifications

Resolution: 100 lines per in. Repeatability: ± 2 LSD. Repetition Rate: Up to 100 points/sec. Size: 2½x15½x4¼" Power: 120 VAC, 60 Hz. Operation: Point or continuous mode.

Pens for Your Color Plotter . . . \$3.95 Each

Color	Ball Point (For Paper)	Felt Tip (For Transparencies)
Red	26-1460	26-1470
Blue	26-1461	26-1471
Green	26-1462	26-1472
Violet	26-1463	26-1473
Brown	26-1464	26-1474
Orange	26-1465	26-1475
Black	26-1466	26-1476

TRS-80 COLOR COMPUTER

TRS-80 — THE MOST COLORFUL IDEA IN COMPUTING ANYWHERE!

- Vivid Color Graphics • Exciting Sound Effects
- Ready-to-Run Instant-Loading Program Paks™
- Learn to Write Your Own Color BASIC Programs

TRS-80 Color Computer
4K RAM Color BASIC **399⁰⁰**

Enter the exciting world of computers with Radio Shack's versatile TRS-80 Color Computer! It's incredibly affordable and so easy to use. Just plug-in a handy, instant-loading Program Pak™ and you're set for thrilling electronic fun. Battle starships in outer space, play football with the pros, even challenge the computer at chess, backgammon or checkers. It's great fun for the whole family!

But playing games is only the beginning. You can set up a budget and keep track of expenses, create an inventory file of household items, even teach your kids math or typing. Everyone will love discovering the many fascinating, helpful, and educational ways they can put their very own personal computer to work or play.

Want to learn to program? Our simple, entertaining "from the ground up" instruction manual will have you writing your own programs with vivid color graphics displays and exciting sound in no time. Simple commands let you quickly produce drawings, diagrams, charts, and more. Add a choice of eight brilliant colors, plus tones for music and sound effects. Save your programs and data on cassettes with an optional extra recorder.

Compare the TRS-80 Color Computer to others selling for twice our price. You get a 4000-character internal memory that's expandable to 32,000 characters, and a Color BASIC language that includes data and string handling, dimensioned arrays, math functions, 9-digit



Attaches Easily to Your Color TV, or Use Our TRS-80 13" Color Video Receiver (not included)

numeric accuracy, and it's even expandable to a professional-featured BASIC.

Expand with a printer, disk drives, and joysticks. There's a built-in RS-232 serial interface for easy telephone communications, too—just add a modem. You'll have access to a wealth of news and data by phone using TRS-80 VIDEOTEX software (see page 55.)

The TRS-80 Color Computer, ready to attach to any TV, comes complete with instruction manuals. Program Paks sold separately. U.L. listed.
4K Color Computer. 26-3001 399.00

TRS-80 13"-Diagonal Color Video Receiver

The high resolution makes it a perfect match for your TRS-80 Color Computer. Also receives regular TV stations. 13x18x15⁷/₈". U.L. listed.
 26-3010 399.00



CTR-80A Cassette Recorder
Saves Your Data
And Programs

59⁹⁵

Save programs you've written and data on audio cassettes. When needed again, simply play the tape back. Features automatic recording level. Includes connecting cable. U.L. listed AC operation or 4 "C" batteries (not incl.). 26-1206 59.95

Joystick Controls for Added Versatility

24⁹⁵
 Pair



Give faster, more realistic action to some games! Use joystick instructions in your own programs, too! On-screen objects can be made to simulate 360° movement. Each has a "single-shot" button. 26-3008 Pair/24.95

TRS-80 MAKES HIGH RESOLUTION COLOR GRAPHICS AFFORDABLE



Now Extended Color BASIC Brings Affordable High-Resolution Color Graphics to the TRS-80 Color Computer!

Kits to Upgrade Your Color Computer System

- 16K RAM Upgrade Kit.** Converts a 4K Color Computer to 16K. 26-3015 99.00
- 32K RAM Kit.** Converts a 4K or 16K Color Computer to 32K. 26-3017 149.00
- Extended Color BASIC ROM Kit.** Upgrades a Color Computer with standard BASIC for advanced graphic capabilities. Requires a minimum of 16K RAM. 26-3018 99.00

Computer upgrade kit prices do not include required installation charges

Color Computer/VIDEOTEK Carrying Case

Heavy-duty leather-grain vinyl case with padded interior to carry and protect your TRS-80 Color Computer or VIDEOTEK keyboard. Features durable reinforced stitched construction with reinforced carrying handle and rustproof nylon zipper. Interior dimensions: 3½x13¾x14¾." Fits 26-3001, 26-3002, 26-3003, 26-5000 and 26-5001. 26-3007 19.95

Now you can create spectacular color graphics at an amazingly low price! Extended BASIC TRS-80 Color Computers are available in 16K or 32K models, or upgrade your existing TRS-80 color system. Get all the features of our standard model, plus more memory and the capability to produce highly detailed graphics with color and sound! It's a snap to create incredible drawings, charts, diagrams, even simple animation.

Just a few one-line commands make the creation of sophisticated shapes easy. For example, with the LINE command, you can draw a line between two specified sets of screen coordinates, make it the foreground or background color, draw a diagonal of a box, and fill in the box with either the foreground or background color. All that with just one command! Other commands include: CIRCLE — for drawing a full or partial circle with a specified radius at a specified coordinate. You can even change its shape! DRAW — produces a line or series of lines, and lets you specify the direction and angle. And PAINT fills a specified area with the color you pick.

Extended Color BASIC's fast execution time lets you quickly draw and connect fine lines, circles, rectangles, boxes, and much more. Four graphic modes with two color sets give you a screen resolution of up to 49,152 programmable screen pixel points (256x192). And you can choose from eight brilliant colors.

It's easy to add music and sound effects to your programs, too. The TRS-80 Color Computer can produce 255 separate tones using the powerful PLAY command. You can also put instructions for joystick functions into your programs with the JOYSTK command (requires joysticks). Use the joysticks like "paintbrushes" — one for the color, the other for movement — in addition to maneuvering objects on the screen. Plus, you can save programs and data on cassettes (recorder required).

The TRS-80 Color Computer with Extended BASIC is loaded with the dynamic features a serious programmer demands. You get a

screen format of 32 characters per line x 16 lines, multi-character variable names (two significant), string arrays up to 255 characters, full-featured editing, tracing, floating point 9-digit accuracy, trigonometric functions, user definable keys, specific error messages, and PEEK, POKE and USR commands to call machine-language subroutines. Extended BASIC computers come complete with an operator's manual, a 300-page tutorial manual on Standard Color BASIC, and a 214-page tutorial manual on Extended Color BASIC.

You can add accessories at any time! Connect a printer for a copy of programs and data — even a non-color printout of screen displays. Add disk drives for increased storage capacity and quick access to data. And the built-in RS-232 serial interface lets you connect a telephone modem and access news and information by phone using TRS-80 VIDEOTEK software (see page 55).

The Extended BASIC TRS-80 Color Computer is for entertaining, educational and personal uses, too. Just plug-in a Program Pak and you're ready to go — it couldn't be easier! Attaches to any television set. Includes manuals. U.L. listed.

- 16K Extended BASIC Color Computer.**
26-3002 599.00
- 32K Extended BASIC Color Computer.**
26-3003 699.00

Specifications

Microprocessor: 6809E 8-bit processor. *Clock speed:* 0.894 MHz. *Keyboard:* 53-keys including up, down, right, left arrows, BREAK and CLEAR. *Video Display:* 16 lines of 32 upper case characters. Color graphics capabilities range from 32x64, 8 colors to 192x256, 1 color and background color with 3 intermediate formats. Higher resolutions available through machine language, Extended Color BASIC, or Program Paks. (Some modes require 16K RAM.) Output connects directly to any standard color TV set (300 ohms) and includes video and sound. *Memory:* 4K, 16K, or 32K internal dynamic RAM. Color BASIC is in 8K ROM, 16K for Extended Color BASIC. Program Paks may contain up to 16K of additional ROM. *Input/Output:* 1500 Baud cassette (recorder optional). Connectors for two 2-dimensional joysticks with a pushbutton switch on each (optional). RS-232 serial I/O port. *Real Time Clock:* Accessible from Extended Color BASIC or machine language only. *Power:* 120VAC, 60 Hz. less than 50W. *Dimensions:* 3½x13¾x14¾."

NOW IT'S EASY TO ADD EXTENDED STORAGE CAPACITY

- Full 156,672 Character Storage Per Disk
- Quick and Easy Access to Data
- Add Up to 4 Drives for Over 626,000 Characters of Storage

First Drive
Complete with Controller
And Cable

599⁰⁰

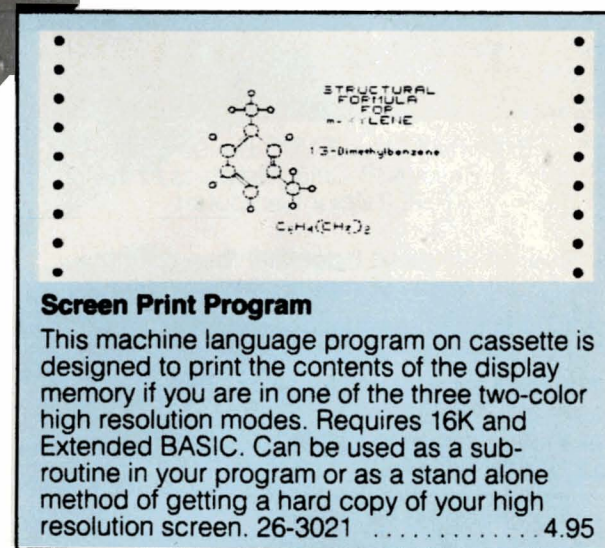
Now you can have increased capacity to store and quickly access complete programs and large amounts of data with your TRS-80 Color Computer—just add one or more Color Disk drives with Disk Color BASIC. Check the many advantages: plug-in Program Pak controller allows quick and easy attachment of disk drives to your Color Computer; does not require the user to understand an "operating system" or learn an alternate operation mode. Color Disk programming has been greatly simplified and some Model I disk commands have been retained (LSET, RSET, MKN\$ and CVN) to allow some Model I programs to be typed in without rewriting all disk routines. It's simply an enhancement of Extended BASIC (required). All standard Extended Color commands remain intact. Additional commands added by Color Disk BASIC include: CLOSE, DIR, FIELD, GET, INPUT, KILL, LOAD, LOADM, LSET, MERGE, OPEN, PRINT #, PUT, RENAME, RSET, RUN, SAVE, SAVEM, SYSTEM, WRITE, CVN, EOF, FREE, LOC, LOF and MKN\$. System utilities included for backup, copy and



Plugs Into Cartridge Port
Operating System in ROM
Uses Only About 2K of Memory

format. Your first drive kit includes one 5¼" double-density, 35-track floppy disk drive, direct-connecting cable for up to two drives, plug-in Program Pak cartridge containing Color Disk BASIC, one blank 5¼" diskette, reference manual and operator's instructions. The Disk Operating System is completely contained in the Program Pak, so the full 156K-byte capacity is available for on-line storage. Included cable allows up to two drives on a system—an optional cable allows up to four drives. Requires a minimum of 16K memory and Extended BASIC. U.L. listed. Color Disk #0 Kit. 26-3022 599.00

Increase your storage capacity even further by adding up to three more drives. These are additional drives only, and must be used with 26-3022, above. The cable with 26-3022 allows one more drive—an optional cable is available to add up to three drives. For use as Color Disk #1, 2, or 3. U.L. listed. (Requires Disk #0). 26-3023 Each 399.00



Screen Print Program

This machine language program on cassette is designed to print the contents of the display memory if you are in one of the three two-color high resolution modes. Requires 16K and Extended BASIC. Can be used as a sub-routine in your program or as a stand alone method of getting a hard copy of your high resolution screen. 26-3021 4.95

Color Disk Drive Specifications

Drive: 5¼" mini floppy disk. 35 tracks, 18 sectors per track. 256 bytes per sector. double-density
 Disk Speed: 300 rpm
 Seek Time: 30 milliseconds, track to track.
 Data Transfer Rate: 250K bits/sec.
 Capacity: 156,672 bytes available to user per diskette
 Weight: 8.4 pounds.
 Size: 6½x37/16x11½"
 Power Requirement: 120VAC, 60Hz, 36 V-A
 Color: TRS-80 Silver/Black.

COMPLETE TRS-80 COLOR COMPUTER SYSTEMS



Home Entertainment And Control System

702⁸⁰
Without TV

Here's a system the whole family can enjoy! Subscribe to Dow Jones and CompuServe and get the latest news. Control lights and appliances, too. Includes 4K Color Computer (26-3001), Joysticks (26-3008), Plug-'n-Power controller (26-1182) (control modules extra), TRS-80 Videotex Program Pak (26-2222), Direct-Connect Modem (26-1172), Cassette Recorder (26-1206). (Above system with 13" Color TV Receiver #26-3010, Only \$1101.80)



Student System With Printer

1002⁹⁵
Without TV

An ideal educational computer system. There are hundreds of uses — from learning computer programming to solving complex equations. We've included a 16K Extended BASIC Color Computer (26-3002), Line Printer VII (26-1167) and Cable (26-3020). (Above System with 13" Color TV Receiver #26-3010, Only \$1401.95)



Home Disk System And Printer

1601⁹⁵
Without TV

A versatile, high-capability system. It's ready for high-volume home financial applications or entertainment with a wide range of stimulating electronic games for everyone. Includes a 16K Color Computer (26-3002), Color Disk Drive (26-3022), Line Printer VII (26-1167) and Cable (26-3020). (Above System with 13" Color TV Receiver #26-3010, Only \$2000.95)



32K 2-Disk Professional Color System

2500⁹⁵
Without TV

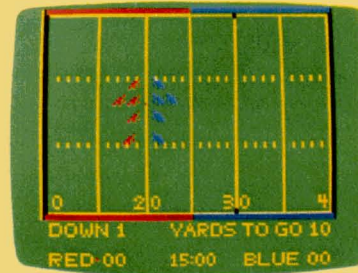
A system that does it all — demanding technical programs, home and family financial planning, sophisticated color graphics. Included are a 32K Extended BASIC Color Computer (26-3003), two Color Disks (26-3022 and 26-3023), Line Printer VIII (26-1168) and Cable (26-3020). (Above System with 13" Color TV Receiver #26-3010, Only \$2899.95)

GREAT SELECTION—THRILLING GAMES FOR KIDS & GROWN-UPS



Chess

Sharpen your skills with eight levels of difficulty! You're playing against a worthy opponent—the computer! "Castling" allowed. The computer is always ready for a quick blitz or a slow, thoughtful game. Minimum system, 4K RAM. (Joysticks optional.) With sound. 26-3050 39.95



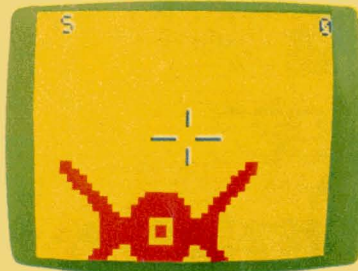
Football

Join the pros! You quarterback the offense with a choice of five plays, your opponent calls the defense to protect against the run or pass, or to blitz the quarterback. Cross the end zone for seven points. Minimum system, 4K RAM. (Requires Joysticks.) 26-3053 39.95



Dino Wars

An entertaining game for two players! Each player controls a dinosaur. If you aren't quick, you'll find yourself ruthlessly attacked by your opponent. Only the strongest can take command. Minimum system, 4K RAM (16K RAM recommended for best results.) (Requires Joysticks.) 26-3057 39.95



Quasar Commander

You're at the controls of a starship! Journey through space, seeking and destroying alien vessels. Set auto-pilot and the computer finds the enemy. Action sound. Minimum system, 4K RAM. (16K RAM recommended for best animation.) (Requires Joysticks.) 26-3051 39.95



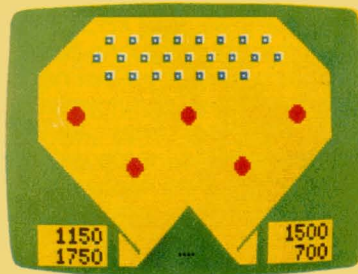
Checkers

The old game will never be the same because now it's you vs. the computer! Features eight skill levels—beginner to expert—and get ready to concentrate because at the "expert" level, the computer searches three moves ahead. Minimum system, 4K RAM. (Joysticks optional.) 26-3055 29.95



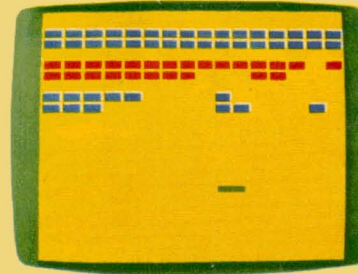
Skiing

Race against time through slalom gates to the "finish banner." Joysticks control direction and speed. You'll enjoy this three-dimensional "sport," complete with sound effects! Minimum system, 4K RAM (16K RAM recommended.) (Requires Joysticks.) 26-3058 39.95



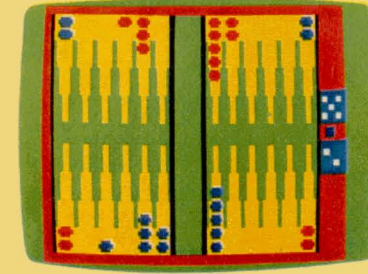
Pinball

The classic arcade game! Allows up to four players to compete—five balls per player. Every 10,000 points wins a bonus ball. Design your own board for easier or tougher games. Features "Bumping the Table" and "Tilt." Action sound. Minimum system, 4K RAM. (Requires Joysticks.) 26-3052 29.95



Super Bustout

Unique fun for one to four people. Break down a wall on the screen by knocking out individual bricks, gaining points for each one you destroy. Special Gravity lets bricks appear running across the top or down the side of the screen. Minimum system 4K RAM. (Requires Joysticks.) 26-3056 29.95



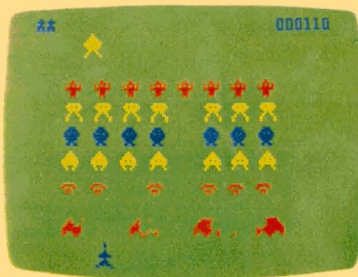
Color Backgammon

Backgammon combines strategy and luck (plus a little blood lust). Allows for vengeance, triumph, cold-hearted assaults and total reversals of the game's flow. And, it won't let you cheat, either! Minimum system, 4K RAM. (Joysticks optional.) 26-3059 29.95

TRS-80 COLOR COMPUTER PROGRAMS FOR WORK AND PLAY

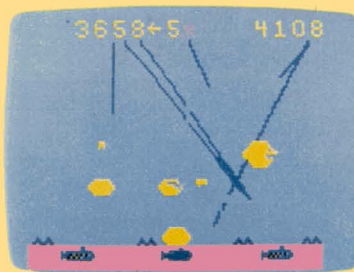
Space Assault

The object — get the highest possible score by eliminating invaders before they eliminate you! If you survive long enough, you'll be aided by other defenders for a final stand against the foe. Difficulty levels from beginner to expert. Minimum system, 4K RAM. (Requires Joysticks.) 26-3060 29.95



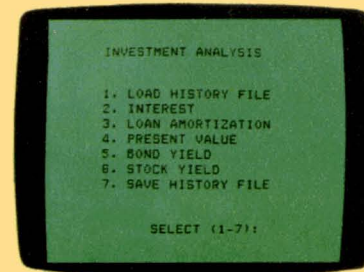
Polaris

Use missiles to intercept computer-controlled missiles and protect your islands with three submarines. For one or two players. Bonus points for islands and missiles left after each attack. As speed increases, excitement mounts. Minimum system, 4K RAM. (Requires Joysticks.) 26-3065 29.95



Investment Analysis

Wide range of calculations to determine interest, loan payments, present values, stock and bond yields. A great help in making financial decisions. A full accounting can be recorded on cassette (optional) for later use. Minimum system, 4K RAM. 26-3102 Available 4/30/82 39.95



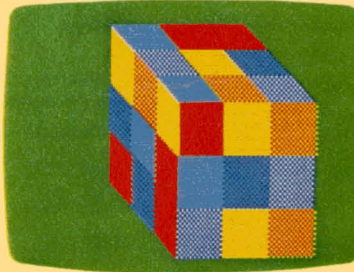
Art Gallery

Draw pictures using high-resolution color graphics. Results can be saved on a cassette recorder (optional.) Includes keyboard overlay and sample pictures. Minimum system, 4K RAM for limited features. 16K RAM for all features. (Joysticks optional.) 26-3061 39.95



Color Cubes

Lets you play that maddening cube puzzle on your computer! This program will record up to 255 moves — un-do and re-do them. This allows you to retrace and analyze your moves. Save your current position on tape and "continue" later. Minimum system, 4K RAM. 26-3075 Available 3/30/82 29.95



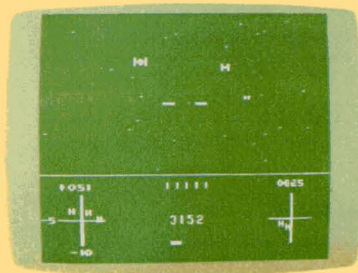
Color File

Helps you store, retrieve and use data. Easily alphabetize, select, examine, print, change, save your info. Standard files like names, addresses, inventories, etc. — or create your own. Requires CTR-80A cassette recorder. Minimum system, 4K RAM. 26-3103 29.95



Project Nebula

Get ready for thrilling "dog fights" as you travel through space seeking out and doing battle with enemy vessels. Features four increasingly difficult play modes. Each mode contains ten difficulty levels. Minimum system, 4K RAM. (Requires Joysticks.) 26-3063 39.95



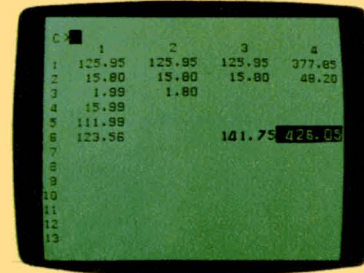
Personal Finance

"How many dollars can I spend? "How much should I save?" "Where does all my money go?" Answer these and other important questions about your finances. Features 26 major expense categories: auto, gas, clothing, food, retirement, more. Minimum system, 4K RAM. 26-3101 39.95

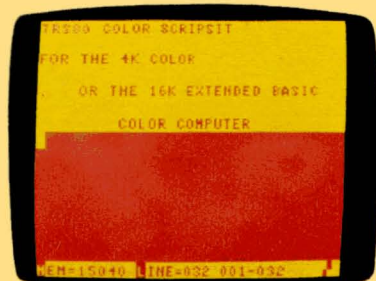


Spectaculator

Do planning, forecasting, or problem-solving with this "electronic worksheet!" Up to 99 columns of up to 99 items (dependent on available memory). Columns contain user-entered numbers or formulas for calculation. Minimum system, 4K RAM. Recorder recommended. 26-3104 39.95



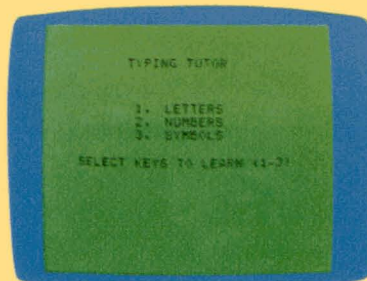
TRS-80 COLOR COMPUTER PROGRAMS—THE PROBLEM SOLVERS



Color SCRIPTIT™

A color word processing system with editing features like string search, replace, block move, copy, variable line widths, much

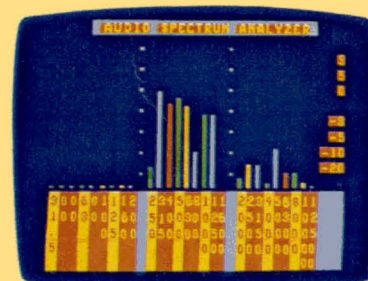
more. Easy to learn. Text can be saved on tape (recorder optional — extra) or printed on optional printer. Minimum system, 4K RAM. 26-3105 39.95



Typing Tutor

Helps you learn to type the alphabet, numbers and symbols. Whether you're a novice or experienced typist, you'll build

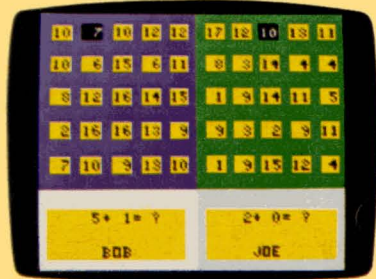
speed and increase accuracy. Program monitors your progress and creates new letter drills for practice on those areas where you need help. Minimum system, 4K RAM. 26-3152 29.95



Audio Spectrum Analyzer

Test your stereo equipment for maximum performance! Color bar graphs show power distribution over nine octaves. Or enjoy visual,

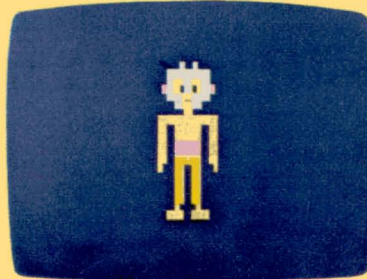
changing patterns. Requires 26-1207 cable, which attaches to cassette output of amplifier. Minimum system, 4K RAM. 26-3156 Available 3/30/82 19.95



Bingo Math

Helps to improve basic math skills with stimulating exercises in addition, subtraction, multiplication, division and number recognition. Solve problems and score a Bingo. For one or two players. Also includes Speed Math and Number Hunt. Minimum system, 4K RAM. (Requires Joysticks.) 26-3150 29.95

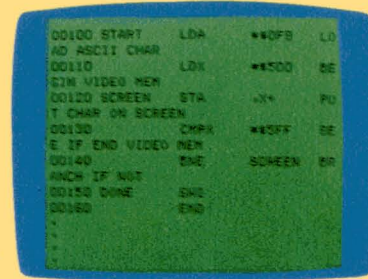
26-3150 29.95



Color Computer Learning Lab

The best hands-on, self-teaching programming course we've ever seen! Learn Standard Color BASIC programming for your computer. Contains 200-

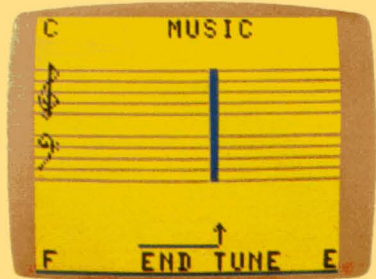
page manual, 8 cassette tapes, with 30 lessons. Also teaches you how to apply what you've learned. Minimum system, 4K RAM. 26-3153 49.95



Editor/Assembler

Program in machine language! Allows efficient development of 6809 software for storing on audio cassettes.

In-memory assembly allows object code to be assembled directly into memory. Debug lets programs be assembled and debugged quickly. Minimum system, 16K RAM. 26-3250 Available 3/30/82 39.95



Music

Compose your own music! Learn musical notation while hearing what you type. Great for accomplished musicians, too. Write melody lines and harmony, experiment with timing, key signatures and tone. Save compositions on a cassette recorder (optional). Minimum system, 4K RAM. 26-3151 29.95

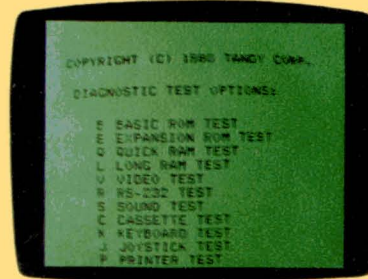
26-3151 29.95



Handyman

Makes a do-it-yourselfer's work easier! Program asks essential questions — dimensions, specifications, etc. — for a particular

job. You just answer with appropriate input to learn how much lumber, insulation or paint is required. Includes comparison shopping feature. Minimum system, 4K RAM. 26-3154 29.95



Diagnostic ROM

Performs a thorough test of your computer hardware. Eleven separate test routines, including RS-232, cassette, key-

board, joystick and printer tests. Menu-driven, easy to use. Graphics and interactive routines make it fun, too. Minimum system, 4K RAM. 26-3019 29.95

TRS-80 PC-1 POCKET COMPUTER

NEW LOW PRICE ON THE TRS-80 THAT FITS IN YOUR POCKET!

- Programmable in BASIC
- Retains Programs and Data When Power is Off
- Standard Typewriter-Format Alphabetic Keyboard
- 10-Digit Numeric Accuracy



**ACTUAL SIZE: ONLY 1 1/16x6 7/8x2 3/4"
WEIGHT: ONLY 6 OZ. LIGHT**



Includes Slip Case

Only
159⁹⁵
Was 229.95
In Cat. RSC-6

Radio Shack puts big computing power in the palm of your hand! Program the TRS-80 Pocket Computer in BASIC to solve problems, process data, and assist in your decision-making.

You Don't Have to be an Expert

If you've never operated a computer, don't worry, because calculations on this "pocketable" TRS-80 are as simple as using a common calculator — or you can use our convenient cassette software that's ready to run. The Pocket Computer has 15 built-in arithmetic functions you can put to work as soon as you press the "ON" key. You can work with large numbers — up to 10 digits (mantissa) and 2-digit exponents. Using trig and angular functions is just as easy because they're also built-in.

Advantages of BASIC Programming

The real power of the TRS-80 Pocket Computer comes from its ability to run programs, either yours or ours. It accepts your instructions on "how to do the job" in BASIC — an English-based computer language used by experts and beginners alike for a wide range of jobs. In

fact, Pocket Computer BASIC is very similar to TRS-80 Level I BASIC.

You can program the Pocket Computer to do almost any of the smaller jobs (without graphics) that other TRS-80 microcomputers can do. Program it to file a stock portfolio, or to calculate business, engineering or scientific problems. Programs can be saved on cassettes (with the optional cassette interface and recorder), or left in memory for as long as needed. You can even get printed copies with our optional printer.

Multiple programs stored in memory can be identified with a single key label and run simply by pressing the specified key. Programs can accept words and names as data (strings of up to 7 characters) for storage in memory. The 1424 step memory is automatically partitioned for program and data storage, and there is a 26 data element memory and a 48-step reservable memory for storing frequently used functions.

Your programs can display prompts in plain English for inputs and display answers with explanations. An Edit and Debug mode make programming much easier than any program-

mable calculator. The keyboard includes 35 keys for alphabetic input and special functions, most having a dual function when used with the Shift key, plus a 20-key section for numeric input, numeric functions mode and editing.

Powered by 4 easy-to-replace, long-life mercury batteries (available at Radio Shack). Automatic power-off saves battery life if no entry is made after 7 minutes. Optional cassette interface holds the Pocket Computer, allows you to store or enter multiple programs and data.
26-3501 159.95

Specifications

Microprocessors: Two 4-bit CMOS (one for arithmetic operation, one for BASIC interpreter and key-in).
Keyboard: 57 keys alphanumeric. *Display:* LCD 24-character 7x5 dot matrix plus 8 symbols (SHIFT, DEG, RAD, GRAD, DEF, RUN, PRO, RESERVE). Automatic scrolling plus manual playback of line longer than 24 characters. 80-character input buffer. *Memory:* ROM, 11K bytes total (7K for BASIC interpreter, 4K for monitor, approx.) RAM, CMOS approx. 1.9K bytes total with automatic BASIC abbreviation for maximum memory conservation. *Subroutines and FOR-NEXT Stacks:* 4 levels each, up to 15 levels of parentheses. *Power Supply:* Four type 675 mercury batteries, available at Radio Shack. Cat. No. 23-1521. Nominal battery life 300 hours.

PC-1 ACCESSORIES

COMBINATION PRINTER AND CASSETTE INTERFACE—NOW AT A NEW LOW PRICE

Was 149.95
in Cat. RSC-6

127⁹⁵

- Prints Highly-Legible Type on Regular Paper
- Load and Store Programs on Cassette Tape
- Fits Easily in a Corner of Your Briefcase
- Comes Complete with Batteries and Charger

Now you can get a hard copy printout from your TRS-80 Pocket Computer! This affordable, dot-matrix impact printer is so compact, you can take it with you wherever you go, whether you're travelling, attending meetings, working out in the field—anywhere you need on-the-spot data. Just slip your Pocket Computer into the recessed port, and you're ready to print or list 16 characters per line at one line per second. Long program lines automatically "wrap around" to the next line.

If you write your own programs, a printed listing of the program is a real help in developing and debugging software. The printer uses inexpensive rolls of 1 $\frac{3}{4}$ "-wide cash-register-type paper and an inexpensive long-life ribbon. Printing is approximately one line per second, and you can print about 8,000 lines on one battery charge.

But that's not all. We've combined a cassette interface in the same portable unit! The cable is provided to connect a standard audio cassette recorder like our recommended Minisette-9. The recorder lets you save and load Pocket Computer programs and data on inexpensive cassette tapes.

With the Printer/Cassette Interface and a cassette recorder, your Pocket Computer becomes



Shown With
Pocket Computer
(not included)

a complete, portable, and highly versatile computer system.

Controls include paper advance, power on/off, print on/off, and remote (for keying recorder "remote" jack). Also a "low battery" indicator.

Comes complete with rechargeable batteries and a U.L. Listed AC adapter/charger—Prints about 8,000 lines per battery charge. Also includes three rolls of paper, easily replaceable ribbon cartridge, cassette cable and manual.

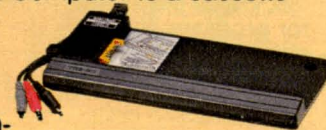
Pocket Computer Carrying Case

Take your Pocket Computer and accessories anywhere in this padded vinyl case. For complete system portability, use one for the Pocket Computer and interface and one for the Minisette-9 cassette recorder. Pockets hold extra paper, pen, reference cards. 26-3508 14.95



New Low Price on Cassette Interface

Connects your Pocket Computer to a cassette recorder for program or data storage. Includes cable with plugs for the Minisette-9 and other compatible recorders. Requires 3 "AA" batteries. $\frac{7}{8}$ x8 $\frac{1}{4}$ x3 $\frac{1}{2}$ ". 26-3503. Was 49.00 in RSC-6 29.95



1 $\frac{3}{4}$ x11 $\frac{1}{8}$ x3 $\frac{3}{4}$ " (with Pocket Computer installed).
26-3505 127.95

Specifications

Printer: 5x7 Dot-Matrix Impact Printing. *Printing Capacity:* 16 Columns Per Line with Automatic Wraparound. *Print (and Paper Advance) Speed:* Approximately One Line Per Second. *Paper:* Radio Shack Catalog No. 26-3506. 1 $\frac{29}{32}$ " Wide, $\frac{3}{16}$ " Diameter (Maximum). *Power Source:* Built-In Rechargeable Ni-Cad Battery. *Battery Capacity:* Approx. 8,000 Printed Lines—Charging Time Approx. 15 Hours. *Power Consumption:* 4.8V, 1.84W (DC) Charger/Adapter Included. U.L. Listed. *Weight:* 0.90 Pounds. *Accessories:* 3 Rolls of Paper, Ribbon Cartridge, Cassette Connection Cable.

Our Recommended Compact Minisette-9 Recorder

Save and load your own programs on cassette with the portable Minisette-9 recorder. Features Auto-Stop, tape counter, LED record mode/battery condition indicator, AC and DC adapter jacks, more.

Requires 4 "AA" batteries. 1 $\frac{5}{16}$ x7 $\frac{3}{16}$ x4 $\frac{9}{16}$ ".
14-812 79.95
AC Adapter. U.L. listed.
273-1454 5.95



Extra Printer Paper
For Pocket Computer Printer.
26-3506 6-Pak/1.75

**Replacement Printer
Ribbon**
Spare fits easily in printer
case. 26-3507 2.75



READY-TO-RUN PC-1 POCKET COMPUTER SOFTWARE



Real Estate. For the real estate investor and agent. Includes annuities, compound interest, depreciation calculations, cash flow analysis, residential purchase analysis. 26-3510 24.95



Business Finance. Helps make decisions! Includes loans, annuities, bond price, yield, compound interest, depreciation, days and dates, internal rate of return, much more. 26-3517 19.95



Business Statistics. Ideal for business, marketing and sales decisions. Includes seasonal variation, normal T/F distributions, forecasting, multiple regression, more. 26-3516 19.95

Statistical Analysis. An invaluable aid in research and data analysis! Includes six programs — Descriptive Statistics, Correlation and Regression, Analysis of Variance, Chi Square Analysis, Distributions (normal, t, F, χ^2), and Multiple Regression. Keyboard templates for each program are included to guide you in running the programs. 26-3522 Avail. 4/30/82 24.95



Personal Finance. A real timesaver that helps you manage the financial details of your household. Includes Budget Management, Electronic Checkbook, Interest/Annuities, Metric/English Converter. 26-3518 19.95



Aviation. A complete flight management system! Calculates altitude, air-speed, headings, Mach number, off-course correction and drift angles, more. Ideal as replacement or double check of sliderule computers. 26-3513 24.95



Electrical Engineering I. Includes low and high pass, active and passive filter design, complex impedance calculator, LF transistor amplifier designs, linear equations solutions, more. 26-3520 24.95



Surveying. Enables the surveyor to convert field measurements into final property boundaries. Includes leveling, volume, irregular area, closure, more. Modules include TAPE LEVEL, TRAP, CLOSE, CONVERT, DISP. 26-3512 29.95



Civil Engineering. A valuable "on-site assistant." Includes Simple Beam Computations, Column Buckling, ASIC Column Formulas, Stress in Cylinders and Bolt Torque, Vector Computations, more. 26-3511 24.95

Engineering Math Series. Ideal for students and accomplished professionals alike! The four packages consist of nine programs designed to handle various algebraic and elementary calculus problems.

Engineering Math I. Performs Gaussian matrix reduction, matrix multiplication, matrix inversion. 26-3525 14.95

Engineering Math II. Performs all common vector operations in three dimensions, complex number arithmetic, trigonometry and exponential functions. 26-3526 14.95

Engineering Math III. Solves systems of linear simultaneous equations, performs polynomial math and calculus. 26-3527 10.95

Engineering Math IV. Solves variety of triangle problems. 26-3528 7.95

Horse Race Analyst. For both amateur and experienced horse race enthusiasts! Uses the past performances of horses to determine the predicted winner, regardless of the odds. Data entry is identical to the Daily Racing Form format. Basic factors used are speed, class, pace, track condition, horse condition and consistency. 26-3530 Avail. 4/30/82 19.95



Math Drill. Designed for children in the primary grades. Teaches basic math skills through examples and repetition. Four levels of difficulty. Includes math table display and test. 26-3514 14.95

Banners. Create eye-catching window messages, labels and signs! Prints oversized horizontal or vertical characters using the PC-1 Printer/Cassette Interface. Prints all upper and lower case letters, numerals one through nine and many common typewriter symbols. Also allows printing of user-defined symbols. 26-3531 9.95



Games I. Fast-paced fun you can enjoy just about anywhere! Includes Cannibals and Missionaries, NIM for two players, Space Ship Landing, Treasure Hunt, Craps, more. 26-3515 14.95

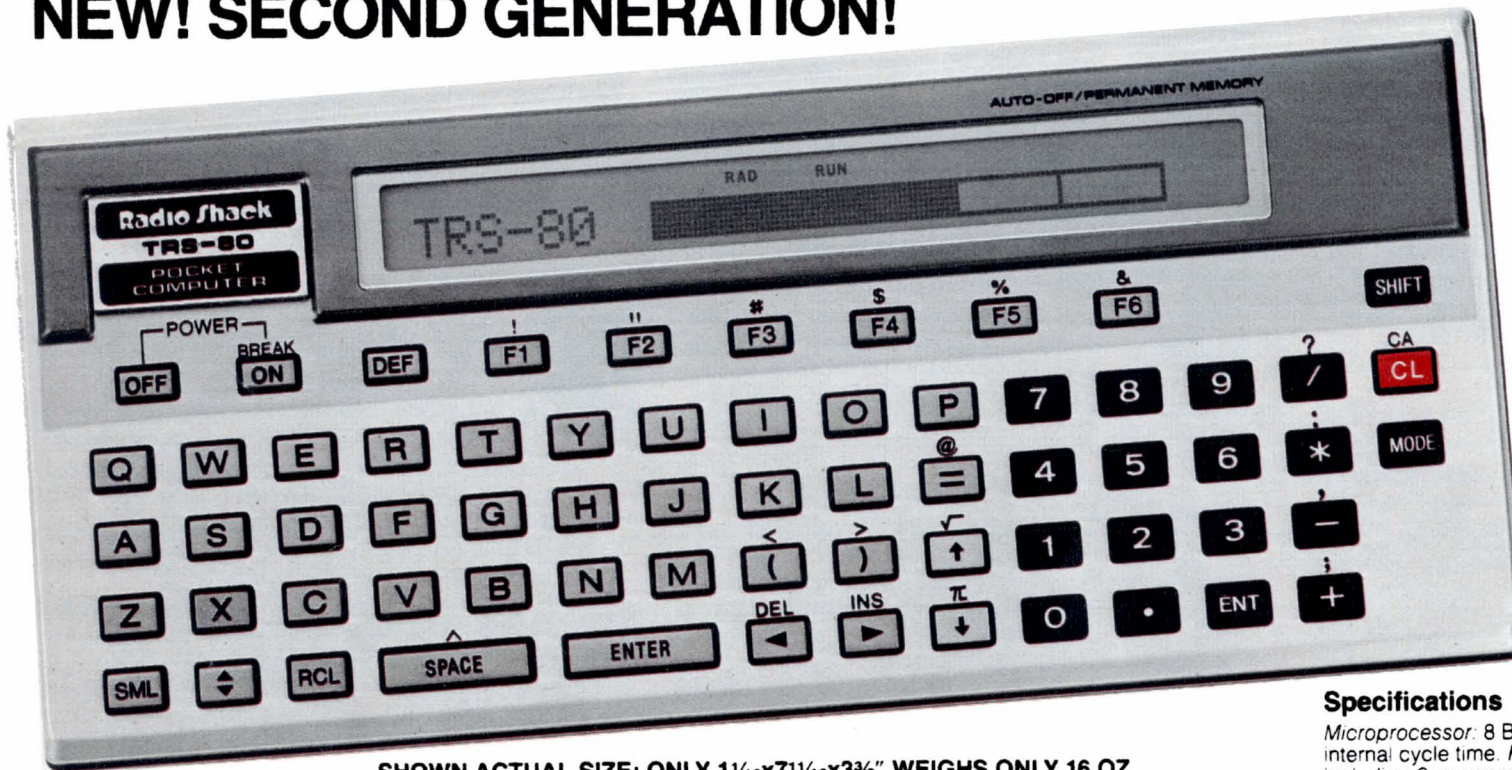


Games II. More fun for the family! Missile, Blackjack, Baccarat, Bandit (Las Vegas slot machine game), Aceyducey, Numguess, Pokeslot (Poker Slot Machine Game), Craps. 26-3523 14.95

Note: All of the software tapes on this page are designed for the Model PC-1 Pocket Computer (26-3501).

TRS-80 POCKET COMPUTER MODEL PC-2

NEW! SECOND GENERATION!



SHOWN ACTUAL SIZE: ONLY 1 $\frac{1}{16}$ x7 $\frac{1}{16}$ x3 $\frac{3}{8}$ "; WEIGHS ONLY 16 OZ.

The term "personal" computer now takes on new meaning! Here is a system that's so compact you can take it anywhere, yet it's as powerful as many full-size microcomputers! It's ideal for engineers, students, businessmen . . . anyone with problems to solve on-the-go.

What Extended BASIC Means to You

This exceptionally powerful programming language has 42 different statements, with 34 built-in functions. It permits two-dimension arrays for both numeric and character data. It can process character strings of variable length to a maximum size of 80 characters.

Its Speed Will Surprise You

The Model PC-2 has a microprocessor that's as fast as many desktop computers.

It's Expandable!

A recessed port on the back of the PC-2 accepts plug-in memory modules for up to 16K of RAM, ROM or ROM/RAM combination. Radio Shack will also introduce an RS-232C Interface and software to allow the PC-2 to function as a terminal.

Deluxe Features

The Liquid Crystal Display (LCD) can be programmed to produce any symbol within a matrix of seven dots high by 156 dots long. A built-in quartz clock is accessible from BASIC or the keyboard and provides month, day, hour, minute, and second. The 65-key keyboard features a typewriter-like layout and 10-key numeric pad. 18 programmable key functions and 18 user-definable label keys allow incredible flexibility. There's even a programmable beeper.

26-3601 279.95

Model PC-2 **279⁹⁵**

- **Extended BASIC** — Faster, More Versatile Version of Pocket BASIC
- **2640-Character Program and Data Memory**
- **Plug-In Slot for Memory Expansion (ROM or RAM)**
- **Upper and Lower Case Alphanumeric Liquid Crystal Display**
- **Graphics! Fully Addressable 7x156 Dot Matrix**
- **Built-In Quartz Clock**
- **60-Pin Input/Output Interface Connector**

Specifications

Microprocessor: 8 Bit custom CMOS processor, 1.3 MHz internal cycle time. *Keyboard:* 65 keys alphanumeric, including 6 programmable function keys for each of 3 Reserve modes, 18 "softkeys" and 10 pre-programmed command keys. *Display:* 26-character alphanumeric Liquid Crystal Display (LCD). Automatic scrolling plus manual playback of lines longer than 26 characters. 80-character input buffer. *Character Style:* Full 7x5 dot matrix ASCII upper and lower case character set. *Graphics:* Fully-addressable 7x156 dot matrix LCD graphics permits generation of special characters. *Memory:* 16K bytes of system ROM, 1850 bytes BASIC program and data RAM, 600 bytes of fixed data memory, and 190 bytes reserve memory. *Memory Expansion:* Single plug-in slot accepts up to 16K of RAM or ROM or ROM/RAM combination. *String Handling Ability:* LEFT\$, MID\$, RIGHT\$, LEN, VAL, CHR\$, and STR\$. Strings dimensionable to 80 characters in 2-dimension arrays. *Clock:* Real-time, quartz-controlled. *Input/Output:* All address and data lines, power, timing, and control signals accessible via 60-pin connector. *Power Requirements:* 4 "AA" batteries (not included) or AC adapter. *Battery Life:* Approx. 75 hours with "AA" Alkaline batteries.

4K Byte RAM Module

More than triples the amount of memory in your PC-2. Just plug it into the back. Individual memory modules are non-expandable.



26-3615 69.95

NEW! GET 4-COLOR PRINTOUTS AND CONTROL 2 CASSETTES

Printer Cassette Interface for PC-2 **239⁹⁵**

- Prints Graphics and Alphanumerics in Green, Red, Blue, and Black
- Full XYZ-Axes Graphics With Special BASIC Statements for Easy Drawing and Plotting
- Prints Nine Character Sizes
- Store and Load Programs and Data Using One or Two Cassette Recorders
- Built-In Rechargeable Batteries Also Power Your Pocket Computer
- Auxiliary Input/Output Connector

The perfect companion for your Pocket Computer Model PC-2. Get four-color graphics and alphanumeric printouts and control two cassette recorders! The PC-2 Printer/Plotter adds twenty-five commands and statements to Pocket Computer BASIC, including special statements that make plotting easy. Print 256x4096 graphics with easily replaceable ball point pens in green, red, blue, and black.

Dual-cassette control allows reading, updating and writing of data under program control, without the need to change tape cassettes. Makes automatic data logging and program overlays easy.

The PC-2 Printer/Interface is ready to use when you slide in your Pocket Computer Model PC-2. There's a built-in 60-pin I/O connector for use while your PC-2 is connected. Uses inexpensive 2 1/4" cash-register type paper, and includes a U.L. listed AC adapter/charger that also powers the PC-2.

26-3605 239.95

Specifications

Alphanumeric Printing: Upper and lower case characters in four colors. Height and width of characters depend upon the number of characters per line. Nine different column widths (from 4 to 36 characters per line) with automatic wraparound.

Print Speed: Average 11 characters per second.

Graphics/Plotter Printing: 256x4096 color graphics. Controlled by BASIC statements and exploiting full 3-dimension axes.

Colors: Black, Red, Green, and Blue.

Paper: 2 1/4" wide.

Power Source: Built-in rechargeable nickel cadmium battery also will power computer. U.L. listed AC Adapter/Charger, included, also powers computer.

Battery Capacity: Approx. 1100 printed lines. Charging time approx. 15 hours.

Physical: Weighs 28 oz. with batteries and measures 2 1/16x12 1/16x4 1/2"

Shown With Pocket Computer (not included)



TRS-80 VIDEOTEX

TRS-80 VIDEOTEX TURNS ANY TV INTO A 2-WAY INFORMATION RETRIEVAL SYSTEM

Radio Shack's exclusive TRS-80 VIDEOTEX Terminal works with your telephone and TV set to give you instant access to national information networks like Dow Jones and CompuServe (see next page). In fact, we include a free hour on each of these networks — manuals and your own password are included for immediate use. TRS-80 VIDEOTEX Terminals may also be used with the growing number of information networks set up specifically for farmers, employees, and other special interest groups.

To use your TRS-80 VIDEOTEX Terminal, simply plug in a telephone cord and connect to the antenna terminals of your TV. Now the information you want is just a phone call (usually local) away. In many cases, you'll see important headlines displayed on your TV screen before you'll read them in your newspaper! In fact, many top newspapers already have special "electronic editions" that you can access on your TRS-80 VIDEOTEX Terminal.

4K TRS-80 VIDEOTEX Terminal

399⁰⁰

(TV not included)



A 53-key alphanumeric keyboard allows for fully interactive communications. You "talk" to the information service's computer, or "data base," using simple, plain-English commands. To save time you can often request information using abbreviated codes

TRS-80 VIDEOTEX Terminals feature an internal

memory that stores information for later viewing and cuts "on line" time to a minimum.

TRS-80 VIDEOTEX Terminal with 4K Memory.

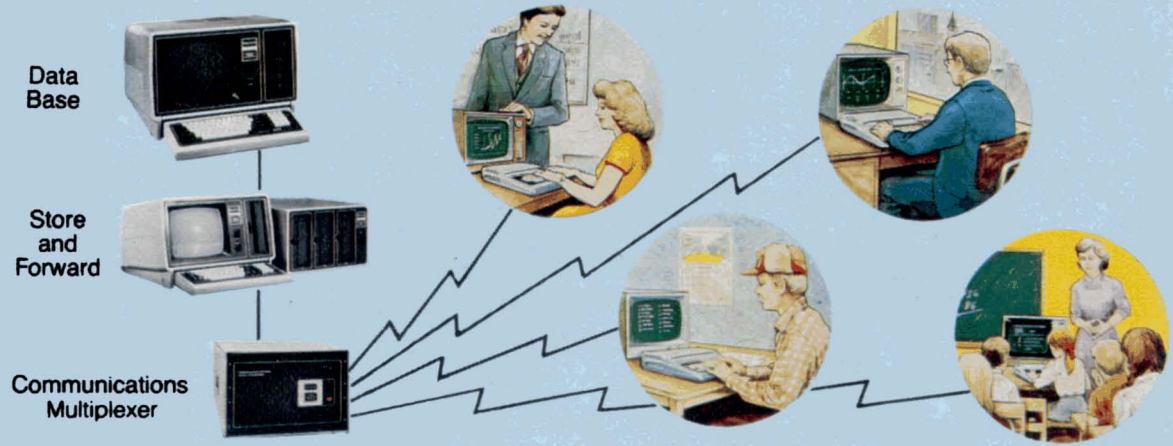
Stores up to 8 pages of information in memory. 3½x13¾x14¾" U.L. listed. 26-5000 . . . 399.00

TRS-80 VIDEOTEX Terminal with 16K Memory.

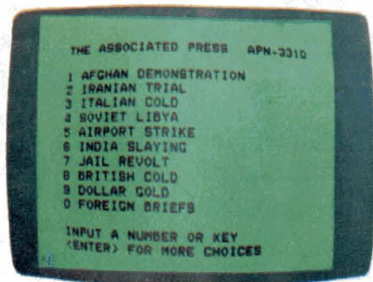
Stores up to 32 pages of information in memory. U.L. listed. 26-5001 499.00

TRS-80 VIDEOTEX Network System Lets Any Organization Establish an Information Network

A Radio Shack breakthrough! The TRS-80 VIDEOTEX Network System is a complete, low-cost data communications network designed for commercial, corporate and private-interest applications. Now any organization can provide newsletters, industry news, medical or agricultural reports — virtually any information that requires up-to-the-minute status — to any member (or customer) equipped with our inexpensive TRS-80 VIDEOTEX Terminal. The System includes a Data Base to input and update information, a Store and Forward System to retrieve and forward desired information, and a Multiplexer that allows the System to handle up to 16 phone calls simultaneously. For complete information, contact our Director of Special Marketing, Radio Shack, 1600 One Tandy Center, Fort Worth, Texas 76102.



TRS-80 VIDEOTEX BRINGS YOU INSTANT INFORMATION



- Up to the Minute News
- AP Wire Service
- Financial Information
- Electronic Mail
- TRS-80 News Bulletin



Low Cost TRS-80 VIDEOTEX Packages for Computers

TRS-80 software allows access to VIDEOTEX information using your computer and an optional-extra telephone interface. Simply dial a phone number (usually local), press a few keys and the desired information will appear on your screen. Each package includes a TRS-80 VIDEOTEX software manual, CompuServe manual, ID number and password, and a Dow Jones manual and password. All CompuServe ID numbers and passwords are separate and different from those of Dow Jones. You also get one free hour on both the Dow Jones and CompuServe networks. After that, you'll be billed at their low hourly rates.

TRS-80 Model I/III Package. 26-2220 ... 29.95

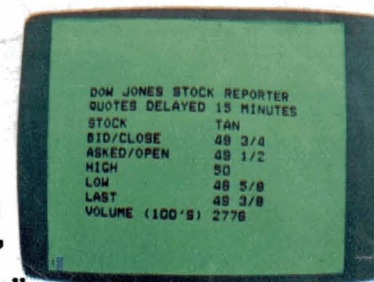
TRS-80 Model II Package. 26-2221 29.95

TRS-80 Color Computer Package.
26-2222 29.95

Apple® II Package. Includes VIDEOTEX software for Apple II and Apple II+.
26-2223 29.95

"Dumb" Terminal Package. No software included. Intended for use with existing standard terminal software. 26-2224 19.95

- Current Stock Quotes
- Detailed Financial Statistics
- Latest News From The Wall Street Journal, Barron's, and the "Broadtape"



Dow Jones News/Retrieval®

TRS-80 VIDEOTEX provides your "direct line" to Wall Street... including one FREE hour on this outstanding financial service!

Get Quotes in Your Home or Office

Dow Jones brings you current market quotes (with the minimum 15-minute delay required by the exchanges) on over 6,000 common and preferred stocks and warrants, corporate bonds, and options traded on the four major U.S. stock exchanges. NASDAQ Over-The-Counter stocks are updated hourly, and selected U.S. Treasury notes, bonds and mutual funds are updated daily.

Complete Historical Information

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