Radio Shack® The Premier Name In Microcomputers

MORE COMPUTERS, SOFTWARE AND SUPPORT THAN ANY OTHER MICROCOMPUTER COMPANY IN THE WORLD

#1

1983 TRS-80® MICROCOMPUTER CATALOG NO. RSC-8

Why Radio Shack is the Place to Shop for Your Computer

Radio Shack started a microcomputer revolution with the introduction of the first TRS-80 microcomputer. Today, we continue as the industry leader by bringing you the broadest line of microcomputers available. We have over 300 Radio Shack Computer Centers nationwide, staffed by professionals who can help you select just the system you need.

High Performance, Yet Low Cost

Each computer in our line starts at much less than you would expect to pay for its powerful capabilities and features. The reason is simple: economies of scale and our own manufacturing facilities make every TRS-80 model a tremendous value.

It's Easy to Expand a TRS-80 Computer

You can enjoy the TRS-80 computer system you need right now, without having to pay for "more computer" than you will use. Later, as your needs grow or change, you can add more capacity through accessories and expansion options. You can purchase a TRS-80 with full confidence that it can expand to meet tomorrow's requirements.

Wide Selection of Software

We offer more ready-to-run software than any other microcomputer manufacturer. Choose from a variety of personal programs and problem-solvers. Professionals can use our software for accounting, forecasting, engineering and word processing. Educators appreciate our full line of courseware. And there's much, much more!

Complete Line of Accessories

We have a full line of peripherals and accessories to complement your TRS-80 computer: quality dot-matrix and formed-character printers, color plotters and a digitizer, external floppy disk and hard disk drives for increased capacity, modems for telephone communications, plus accessories and supplies that help you get the most from your TRS-80 system.

Leasing Plans

We offer a 39-month lease plan for any system valued over $1500. And since it is a true lease, payments may be fully tax deductible as a business expense.

Service Agreements

Over 200 company-operated repair centers nationwide service only our computers. We also offer "Carry-In" and "On-Site" service. And our Customer Service Representatives will help you with any after-the-sale questions or problems.

Technical Hotline

Help is just a phone call away. The experts in our Computer Services Department will assist you with any TRS-80-related question you might have.

TRS-80 Newsletter

This monthly publication is packed with operating tips, product news and tutorials, plus programs and ideas from TRS-80 users.

The Best Support

Over 8500 outlets worldwide stock our TRS-80 equipment. So stop by your nearest Radio Shack store, Computer Center, or participating dealer for a hands-on demonstration today!

THE RADIO SHACK TRS-80® LINE FOR 1983
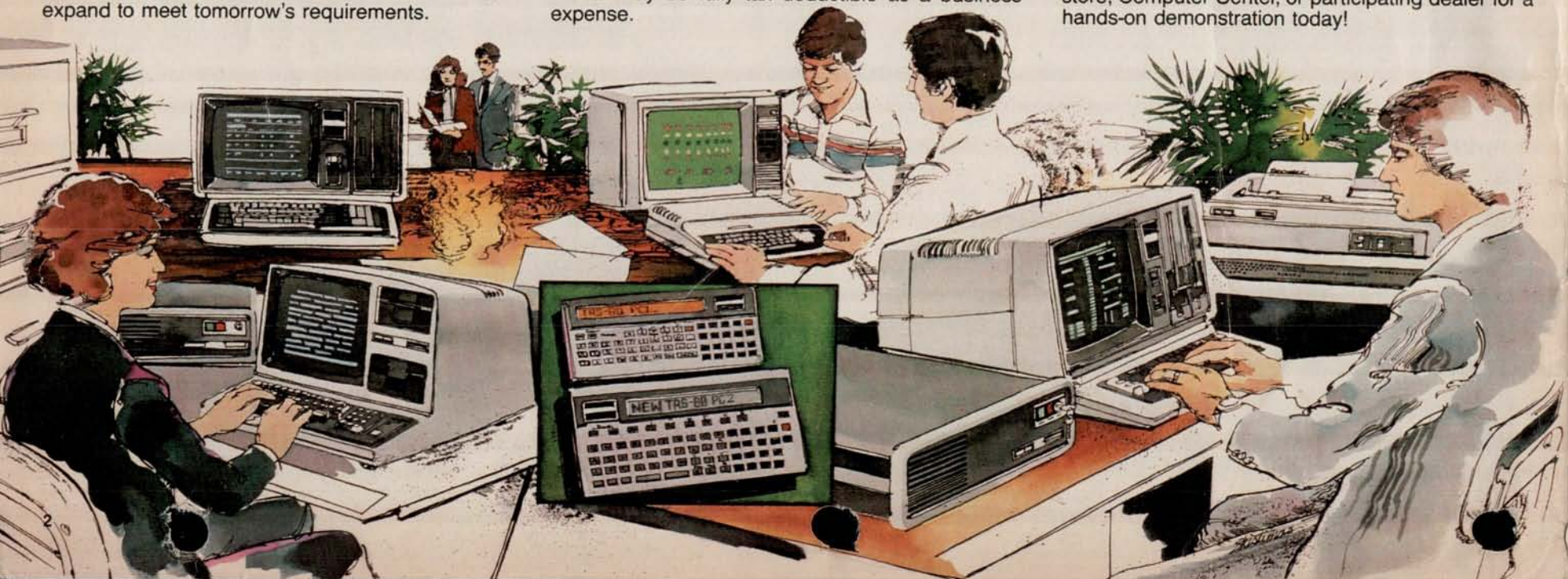
Choosing the Right TRS-80 Computer

Ours is the broadest line of small computers in the world. Most contain BASIC language in ROM (permanent Read-Only Memory). Models II and 16 load their languages from disk. Random Access Memory (RAM) is temporary storage for programs and data, and can vary from 1.9K (1,900) to over 35M (35 million) bytes. One byte can be considered one typewritten character. You will see reference to the video screens as 64 × 16, 80 × 24 or 32 × 16. This means 16 lines of 64 characters per line, 24 lines of 80 characters, and so on. So with those explanations, here's an overview of our computer line.

TRS-80 Model 16—The Most Powerful TRS-80 Ever

Our top-of-the-line single or multi-user computer. Attach two inexpensive terminals and you can run three jobs (such as billing, inventory, and order entry) simultaneously using common data files on hard disk. Expanded memory allows very large spreadsheet-oriented planning and forecasting. Loads language from disk in seconds—an advantage when using various languages. 80 × 24 screen, memory 128K to 512K. Disk storage 2Mb to over 35Mb.

TRS-80 Model II—A Versatile, Multi-Purpose Workstation

Our best single-user multi-purpose workstation for business. Model II can handle accounting, inventory control, management planning, word processing, even bisynchronous communications to your mainframe. It's affordable, and it upgrades easily to most of Model 16's capabilities. 80 × 24 screen, memory 64K to 256K. Disk storage from 416K to over 34Mb.

TRS-80 Model III—The Ideal Personal Computer for Managers

A disk-equipped Model III is the perfect compact system for an executive. Use for planning, filing, communication, time management and more. Choose an economically-priced cassette Model III to learn programming or for education or engineering uses. Cassette Model IIIs upgrade easily to disk. 64 × 16 screen, memory 4K to 48K. Disk storage 175K to over 20Mb.

TRS-80 Color Computer—Hard-Working and Entertaining

Attach it to any TV, and you have a very powerful, expandable computer that can be used for forecasting, word processing, budget management—even to teach and entertain your family. You won't "give up" computing capability with this affordable home computer. 32 × 16 screen, memory 16K to 32K. Storage is cassette, expandable to 626K on disks.

TRS-80 Pocket Computers—Pocket-Sized Problem-Solvers

For the on-the-go business or professional person with problems to solve. We offer two powerful pocket computers. Our store personnel can help you choose. There are printers for each—one even has four-color graphics plotting. Uses BASIC language. Memory 1.9K to 10.6K. Cassette program/data storage optional.

Quantity Discounts

Software, Books, Accessories, Ribbons, Paper	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 28. For quantity discounts on TRS-80 computers, printers and peripherals, write Director of Special Marketing, 1400 One Tandy Center, Fort Worth, Texas 76102.

Our Most Advanced TRS-80 Ever—Model 16 With 16-Bit Processing Power

Priced From **4999⁰⁰** 128K 1-Disk

- 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
- Model II Mode Runs All Model II Programs
- Multi-User Capability Allows Execution of Several Programs Simultaneously

The TRS-80 Model 16 puts superior performance in a compact desktop system! Now complex computing tasks can be accomplished with ease.

Advanced 16/32-Bit Technology

The Model 16 is designed around a state-of-the-art 68000 microprocessor that accepts 16-bit data and processes it internally as 32-bit "words." A second microprocessor— the Z80A—handles input/output and other "housekeeping chores." This permits the 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 steps up to 512K.

Software Compatible with Model II

Dual-processor design permits the Model 16 to operate as a TRS-80 Model II and use existing Model II software. That means a large library of ready-to-run programs is available now. In addition, we're building a new library of software designed to take advantage of Model 16's advanced features.

Expandable

Model 16 features two RS-232C serial communication interfaces and a parallel printer interface which allow expansion with a printer, plotter, digitizer, modem 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 8″ slim-line disk drives.

Multi-User Capability (Available 1st Qtr. 1983)

Model 16 is so advanced it can become the hub of a multi-user office system (see page 5). One or two low-cost terminals, like our TRS-80 DT-1 (see page 43), can simultaneously access different programs on the Model 16—without any perceived loss of performance.

128K 1-Disk TRS-80 Model 16.
26-6001 . . . . 4999.00

128K 2-Disk TRS-80 Model 16.
26-6002 . . . . 5798.00

Who Is the Model 16 for?

Anyone who wants the most advanced microcomputer technology at their disposal needs the TRS-80 Model 16. It's ideally suited for today's offices, providing simultaneous job-handling *without* the expense of multiple computers. It offers the high operating speeds and large memory capacity that many business users require. And it can handle complex, computation-intensive jobs and highly sophisticated programs that only a 16-bit computer can.

Model 16 Operating System

The 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. A utility program can provide a source listing, and it can 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, assembler, linking loader, cross-reference and debugger. Included with every new Model 16.

Replacement Diskette Only.
26-6105 . . . . 39.95

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. 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 two 1.25 Megabyte External Floppy Disk Drives and four 8.4 Megabyte 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.

Dimensions: 14 × 21¼ × 23½".

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

New! Thin-Line Disk Bays

1-Drive
1299⁰⁰

2-Drive
2098⁰⁰

Expand your on-line capacity with one or two External Floppy Disk Expansion Units. Each drive adds 1.25 megabytes of data and program storage. The drives are double-sided, double-density, thin-line 8" floppies resembling those built into the Model 16. You can choose the one drive unit and expand to a second drive at any time by adding the Disk Drive Kit (26-4167) at right.

1-Drive Unit. 26-4165 . . . . 1299.00
2-Drive Unit. 26-4166 . . . . 2098.00

Expansion Options

Internal Memory Expansion. The Radio Shack 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 any time, 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 disk storage for user programs, data files and the Disk Operating System.

Disk Drive Kit. 26-4167 . . . . 799.00*
*Price does not include required installation.

It's Easy to Set Up a Multi-User System Using the DT-1 and the TRS-80 Model 16

Now you can get the efficiency of a multi-user office system with a microcomputer—the powerful Model 16—as the hub. And the TRS-80 DT-1 terminal is the ideal remote workstation for this system. As multi-user software becomes available, you may add one or two DT-1 terminals at remote locations, so up to three different programs can be running simultaneously on the Model 16—without any perceived loss of performance. One remote DT-1 user can be entering inventory figures, and another accessing a data base management system—while the Model 16 operator is running a payroll program!

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

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New Low Price on This Versatile, Multi-Purpose Workstation!

Was $3899.00 in RSC-7 **3499⁰⁰**

- ■ **Big 64K Memory Handles Tough Jobs Easily**
- ■ **Built-In Double-Density 8″ Disk Drive Adds 416K of On-Line Data and Program Storage**
- ■ **Detachable 76-Key Typewriter-Style Keyboard with Numeric Datapad**
- ■ **Built-In 12″ High-Resolution Monitor Displays 24 Lines of 80 Upper/Lower Case Characters**
- ■ **Two RS-232C Serial Interfaces and Parallel Printer Port for Easy Expansion**
- ■ **Choose Ready-to-Run Business Software**
- ■ **Add High-Resolution Graphics and Create Sophisticated Charts, Illustrations and Maps**
- ■ **Upgrade to 16-Bit Power and 256K Memory**

TRS-80 Model II is Radio Shack's highly acclaimed business microcomputer. This versatile stand-alone system forms the heart of a multi-purpose workstation. It combines high power and low cost to make it the right computer for countless applications.

Accounting

Model II has the storage capacity and expandability to streamline general ledger, accounts payable and receivable, inventory control, order entry, payroll and other tasks for increased speed and accuracy. It can prepare P&L statements, speed up collections, improve your cash flow, analyze sales information, and more. Our user-oriented programs make it easy.

Program Development

We offer a choice of Model II languages to meet your specific requirements. In addition to Model II Interpretive BASIC, we have Compiler BASIC, FORTRAN, Assembler, and COBOL.

Management Assistant

Model II is an ideal choice for departmental use in large businesses, too. It lets you do jobs too "hot" for shared computer time or too small for cost-effective handling by your company's mainframe. Model II can help with planning and forecasting, word processing, electronic filing, analysis and more.

Bi-Sync Communications

The Model II is ideal for use in existing data processing environments because it offers the versatility a mere terminal lacks. With our bi-synchronous communications packages, Model II provides low-cost access to mainframe computers.

Easy Expansion

You can use Model II by itself or with a variety of peripherals. Add external disk drives, a printer, plotter, digitizer, modem and more. You can also upgrade to high-resolution graphics, plus the super-fast 16-bit microprocessor and 256K memory just like our TRS-80 Model 16 (see page 8).

Model II includes a comprehensive reference manual and a diskette that contains the powerful Model II interpretive BASIC language and TRSDOS operating system. U.L. listed.

64K TRS-80 Model II. 26-4002 . . . . 3499.00

Who is the Model II for?

The TRS-80 Model II is our best single-user business computer—ideal for professional applications. Its versatility and power in handling word processing, data base filing, planning and accounting tasks make it the logical business machine choice. The Model II is also the ideal workstation for large corporations. It can be used as a management assistant, in program development, even for bisynchronous communications with mainframe computers.

An Inside Look at the TRS-80 Model II Microcomputer

Model II's compact, desktop cabinet includes a built-in 8″ disk drive, high-resolution 12″ video display, and a detachable typewriter-style keyboard. The double-density disk drive provides 416,000 characters of storage for programs and data. The keyboard is easy 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 screen displays 24 lines of 80 upper and lower case characters. Double-width characters—40 per line—and reverse characters can also be program-selected.

Model II 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.

Memory: 64K RAM. "Bootstrap" ROM is bank-switched out after "boot" startup. Includes power-up diagnostics.

Keyboard: 76-key professional-type including numeric entry keypad. Special keys include HOLD, ESCape, BREAK, CTRL, CAPS and REPEAT. Up, Down, Right and Left arrow keys. Two programmable Special Function keys (F1 and F2).

Video Display: High-resolution 12-inch 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: Built-in dual-density 8″ floppy, up to three more available in optional external Disk Expansion Unit. Up to four optional 8.4 megabyte Hard Disk Drives. Maximum system—4 floppy disks and 4 hard disks.

Internal Expansion: Four plug-in card slots for addition of high-resolution graphics and 16-bit microprocessor with up to 256K RAM.

External Connections: One standard parallel port, two RS-232C serial communications ports, one external disk bay port.

Dimensions: $14 \times 21^{1}/_{4} \times 23^{1}/_{2}$″.

Power Requirement: Built-in filtered power supply for 120 VAC, 60 Hz.

Model II System Software

"User-Oriented" Model II BASIC

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 for program development and debugging.

Some of the outstanding features of Model II BASIC are advanced string handling, full editing, multi-dimensional 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 and recovery from operator errors.

Command compatibility with TRS-80 Model I and III has been maintained to the greatest possible extent for those who decide to move up to the addditional speed and capability of Model II. Model II BASIC is designed to run under TRSDOS, both of which are included with Model II.

TRSDOS—TRS-80 Disk Operating System

TRSDOS ("Triss-Doss") is the system that manages disk operations of the TRS-80 Model II. It's a comprehensive system with many powerful features for the programmer, yet is very easy to use and virtually "transparent" to the nonprogrammer using pre-written software. TRSDOS provides a full set of library commands, utility programs and many useful system routines that can be called directly by user programs. It occupies space on the system diskette and is automatically loaded for use after system power-up. The System diskette and comprehensive TRSDOS User's Guide are included in a deluxe 3-ring binder.

TRSDOS 2.0 Replacement Diskette. Also includes Model II BASIC. 26-4910 . . . . 24.95

Model II Disk Expansion Units

From

1150⁰⁰

Gives You More On-Line Storage

For more disk storage, just plug in an external Disk Expansion Unit—available with one, two or three 8-inch disk drives. Each 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.

1-Drive System. 26-4160 . . . . 1150.00
2-Drive System. 26-4161 . . . . 1750.00
3-Drive System. 26-4162 . . . . 2350.00
Disk Drive Kit (Drive Only).
26-4163 . . . . 600.00*
Disk Drive Kit. For 26-4160/26-4161 where first drive has light. 26-4164 . . . . . . 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. *Dimensions:* $11^{1}/_{2} \times 18^{1}/_{2} \times 21$″. *Power:* 120VAC, 60 Hz, 150 watts. U.L. listed.

*Price does not include required installation.

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TRS-80 Model II To Model 16 Upgrade Kit

1499⁰⁰

Get a 16-Bit CPU—Up to 256K Memory

This Enhancement Option includes installation of two boards. One contains the MC68000 16-bit microprocessor. The other is a 128K 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 video and 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 original Z-80A 8-bit processor and its support circuits are retained for Input/Output. This frees the 16-bit processor to bring its full power to bear on data processing problems and memory management functions.

Multi-User Capability

Your Model II, operating as a Model 16, will be able to support three users simultaneously as soon as our multi-user operating system is ready. Thus two workstations in your office can be low-cost remote terminals like our TRS-80 DT-1. It's like having *three* computers at a much lower price!

Upgrade Kit. 26-6010 . . . . 1499.00*
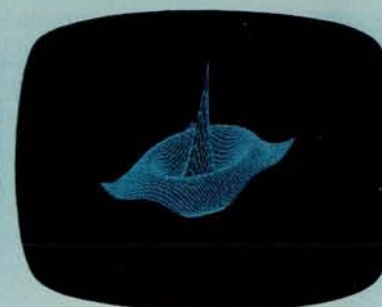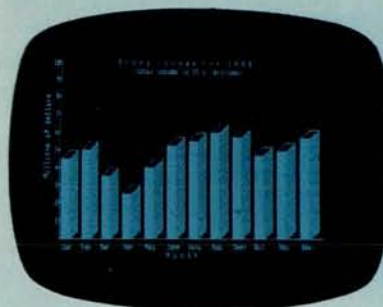
High-Resolution Graphics for Model II and 16

- Easy-to-Use Graphics BASIC
- Assembly Language Subroutines For Use With Other Computer Languages
- 153,600 Picture Elements (640 × 240)
- Unlimited Uses—Turns Your Video Display Into a "Graphic Blackboard"
- Paint Styling—Fills in Spaces Between Lines With a Variety of Patterns
- Line Styling—Draws Lines in a Variety of Styles With One BASIC Statement
- Independent Graphics Memory Can Overlay Text in Regular Video Memory

Added Versatility for Model II and 16

Now Radio Shack's TRS-80 Graphics Option with our Graphics BASIC language lets you use your 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 in between points.
PAINT—Paints an area in a specified style.
POINT—Checks to see if a point is on or off.
PRESET—Turns a 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 in an unused slot of your Model II or 16. Includes user's manual, 8" diskette with Graphics BASIC, and subroutine library.

Graphics Option. For Model II or Model 16.
26-4104 . . . . 499.00*

*Price Does Not Include Required Installation.

Add 8.4 Million Characters Of Storage to Your Model II or Model 16

- **Extremely Fast Access to Programs And Data Through Winchester Technology**
- **Compatible With Most TRS-80 Model II And Model 16 Software**
- **Easily Add Up to Three More Hard Disk Systems for Over 33 Million Bytes 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. You can save all data, a defined list of data, specific file names, or files that have been created or updated since a particular date. 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*

Specifications
A 2-platter, 4-surface, 8" disk drive employing sealed media with a self-contained, recirculating filtered air system. *Formatted Capacity:* Primary drive—8.6 megabytes, secondary drives—8.9 megabytes. *Disk Format:* Each of the 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). *Dimensions:* 5¹/₂ x 18¹/₂ x 19¹/₄". *Power:* 120VAC, 60 Hz, 140W. U.L. listed.

Fast and Powerful TRS-80 Hard Disk Computer Systems!

TRS-80 Model 16 Hard Disk System

Includes 256K Memory **9993⁰⁰***

- **128K 1-Drive TRS-80 Model 16 Computer (26-6001) With 128K Memory Kit (26-6012)**
- **8.4 Megabyte Primary Hard Disk System (26-4150)**

Low-Cost TRS-80 Model II Hard Disk System

Complete System **7994⁰⁰***

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

*Price Does Not Include Required Installation.

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Time-Saving Word Processing and Planning Programs

SCRIPSIT™ 2.0
Word Processing

This powerful word processing system for the TRS-80 Model II will speed up any job you're now doing on a typewriter. It's easy to learn and use, with "plain English" prompts and menus that put advanced editing capabilities at your fingertips! 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 on disk for use again and again—and updated at any time. SCRIPSIT includes automatic block moving and duplication, easy page numbering and renumbering, and an information line that keeps track of cursor position, margins, line spacing and page number. A Global Search mode will locate a specified 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 to reprint words and phrases or to access special functions. Also store up to 11 formats that you use often and select the one you want with just a few keystrokes. SCRIPSIT offers full headers and footers, as well as underlining, subscripts, superscripts and bold face (depending on the printer you choose). SCRIPSIT's "background" feature even lets you print one document while you're typing or editing a different one. 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. Greatly increase storage capacity with a TRS-80 Hard Disk System. Load and store ASCII text files, too. Includes a superb manual and a self-paced training course on audio cassette tape.

Model II Floppy Disk. 26-4531 . . . . 399.00
Model II Hard Disk. 26-4831 . . . . 399.00

SCRIPSIT Spelling and Hyphenation Dictionary

This automatic "proofreader" for SCRIPSIT checks and displays your text on the screen, highlighting misspelled words. Contains over 100,000 words, abbreviations, proper names, contractions and foreign words with hyphenation points. You can add up to 2000 words that are used in your profession—medical, legal, engineering, scientific terms, etc. Requires SCRIPSIT 2.0 and one additional disk drive.

Model II Floppy Disk. 26-4534 . . . . 199.00
Model II Hard Disk. 26-4834 . . . . 199.00

An Ideal Word Processing System

5533⁰⁰

This TRS-80 system costs less than most dedicated word processors, yet lets you do data processing, too. System includes the 64K TRS-80 Model II (26-4002)—ideal for a variety of business and technical jobs in addition to word processing—the Daisy Wheel II Printer (26-1158) and Cable (26-4401). Software extra.

New! SCRIPSIT Plotter Driver

Now you can add a vivid dimension of clarity to your text and overhead projector transparencies. This program lets you use SCRIPSIT 2.0 to output to our TRS-80 Multi-Pen Plotter (see page 24). Print nine character sizes in six colors—red, black, blue, green, violet and orange. Draw boxes around your text, straight lines, underlines, superscripts and subscripts. Simple commands let you easily change character sets, set character size, and switch color pens. Use either a vertical or horizontal format. You can also move one-half space in any direction, or move backward a full space. Supports all plotter text-oriented features, plus character and word-incremental justification. Requires SCRIPSIT 2.0 and TRS-80 Multi-Pen Plotter. 26-4536 Avail. 10/30/82 . . . . 49.00

New! VisiCalc®Enhanced

Expanded version of the original VisiCalc. Designed for the decision-maker, the new VisiCalc is an amazingly efficient management planning tool that can be used for everything from corporate finances to engineering work to sales projections. 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 ●●es 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! The new entry editor speeds worksheet preparation by allowing you to modify formulas and labels without re-entering them. And new logical and comparison operators let you perform testing and branching. Built-in math functions permit speedy solutions to complex engineering problems. You can also produce simple graphs, and of course save your model on disk for future use. Add a printer and you can print your entire worksheet, or any portion of it. With an additional 64K memory board (below), you can produce even larger worksheets. (Memory board is not required for owners of Model 16 computers or Model II computers equipped with Model 16 upgrade). 26-4521 Avail. 10/30/82 . . . . 299.00

New! 64K Memory Expansion Board

Gives your Model II the capacity to generate much larger worksheets for the VisiCalc Enhanced program (above). This memory is not useable by other programs which do not employ special programming techniques required to access it. Installation required (not included). 26-4105 . . . . ●●.00

Simplify Information Handling With Electronic Filing

Profile II

One of our most popular programs! It's an electronic filing system that lets you design your own database and can search through your records to find just the files you want—in seconds! No special computer background or programming knowledge is required—our instruction manual leads you through the various features step by step. Keep track of names and addresses, accounts, bills owed and paid, personnel or customer records and more. Unlike a conventional file, which can be searched in only one order—alphabetically or by account number— Profile II files can be searched by up to 36 user-defined criteria! 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 "personalize" your letters and reports with names, addresses and other important information. 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" for greater flexibility. Allows arithmetic operations between fields—up to 16 equations of 63 characters each. This advanced math pack can be used to perform such functions as extensions, calculating taxes, subtotals and totals. Profile Plus allows you to instantly switch between any of your five screens and display various portions of an individual record. Create customized menus that require only a single keystroke for execution. Index your file in logical order for high speed access to records. When performing a search, Profile Plus will scan all associated fields for the type of information you want. Selectable record lengths prevent wasted disk space and increase the maximum number of multi-segment records. Advanced screen editing lets you insert and delete lines during screen creation or report formatting. Then after you've created your screen, a prompting message will ask you if you want a printout. And a new "type-ahead" feature lets you continue entering keystrokes even while other functions are being executed! 26-4515 . . . 299.00

Profile Upgrade

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

It's Easy to Create and Use a Profile II Filing System

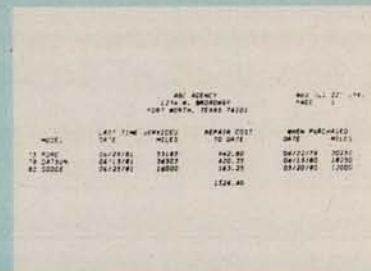**Define a Screen Layout**   **Define a Report Format**   **Get a Printed Report**

Our Profile II program is easy to learn and easy to use. Design your own screen for the data you want stored, enter your data on the screen, and design a report—in virtually any order—in just minutes! Enter your data, and the exact information you want is always just a few simple keystrokes away!

Profile Training

This informative package gives you a working knowledge of the endless capabilities of Profile II. You are guided through a carefully sequenced, step-by-step learning experience. Examples are provided to demonstrate the flexibility of the Profile software. Provides an excellent learning foundation for Profile Plus users, too. Four audio cassettes with an excellent 96-page manual and training disk. 26-4516 . . . . 69.00

New! Profile Prosort

High-speed indexing program for Profile Plus that allows you to sort and select records from any one segment of a file at a time. You can sort on one field with sub-sorts on four additional fields, ascending or descending. Select records using up to 16 selection criteria. Also allows you to print your records using a previously created disk index. You can create up to five indexes for reports and one index for video inquiry.
26-4558 Avail. 10/30/82 . . . . 149.00

New! Profile Forms

This new enhancement program for Profile Plus lets you print one detailed record per sheet on each item in your file, rather than Profile's normal one or two line listing on multi-item reports. Each form can be up to 132 characters wide and up to 66 lines deep. Up to five different formats per file can be maintained. Supports 1/2" line feed and special characters (depending on printer used). Intermix text and Profile data.
26-4556 Avail. 10/30/82 . . . . 125.00

New! Profile Archive

A practical program that lets you purge inactive records from any file in Profile Plus. Deletions can be performed based on up to 16 criteria. You have the option of listing the deleted records to a line printer and/or merging them into a separate archive—or history—file.
26-4557 Avail. 10/30/82 . . . . 49.00

New! Menu Generator

Now you can create custom menus in machine code for BASIC or COBOL programs—or special individual applications. It's perfect for the TRS-80 Hard Disk owner who has numerous applications on line at one time. You can create a "master" program menu, or even a menu of menus. A single key can be set up for a series of TRSDOS commands. You indicate the key to be pressed, the prompt you want to see in the menu, and the command line you want executed. Allows 12 selection items per menu. 26-4555 Avail. 10/30/82 . . . . 39.00

Versafile

Permits anyone to create a simple 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 "plain English" question. Global search function matches keywords in your question to information on file. With a TRS-80 printer, you can print all or any portion of the files. 26-4510 . . . . 69.00

Streamline Your Accounting System With TRS-80 Business Packages

A TRS-80 Model II computer system can prepare profit and loss statements, tighten up receivables, speed up collections, control disbursements, improve cash flow, keep a close watch on payroll and budgets, help you with your inventory control, analyze sales information, and much more. 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. And you won't have to hire a programmer either. In fact, *anyone* in your office can easily and quickly learn to use these powerful TRS-80 Model II business and accounting software packages. That's because each package 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. What's more, with additional disk drives, these packages form an "economical" interactive system. And Model II software will also run on a Model 16 in the Model II mode.

System Requirements

These programs require a Model II microcomputer, a 15"-wide, 132-column printer and printer cable.

General Ledger

A powerful, labor-saving system that eliminates 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 audit trails. Controlled inputs for error prevention and rapid entries. Easy document correction and error recovery. Reports include: Income Statement, Balance Sheet, Charts of Accounts, Trial Balance, Document List, Posting Summaries, and Ledger Detail Report. Full reporting capabilities allow access to your financial status at any time. A second disk drive allows update from Payroll (26-4503), Accounts Receivable (26-4504), and Accounts Payable (26-4505). 26-4501 . . . . 199.00

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 federal, state and city 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

Accounts Receivable

A complete invoicing and monthly statement system that helps reduce and control your receivables. Know where you stand and spot overdue debts early for collection. 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

Accounts Payable

Designed to help you maximize your use of cash. Prints cash requirements, aging reports and totals, and checks. 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

Mailing List II

A good mailing list makes you money! Here's a system that 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 to 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 . . . . 110.00

This affordable TRS-80 Model II "Basic Business" system is ideal for many office needs and will run all software shown on this page. It includes the 64K Model II (26-4002) with 416,000 free bytes of disk storage, DMP-400 Printer (26-1251), and Printer Cable (26-4401). Desk not included.

Complete System
$7330.00

Retail prices shown in this catalog may vary at individual stores and dealers.

Interactive Programs Team Up for Greater Business Control

Multi-Disk Business Packages

Each of these powerful interactive accounting programs is designed for the Model II or Model 16. The Model II version requires a TRS-80 Model II, a 15-inch wide tractor-feed printer and a 2-Drive Disk Expansion Unit, or packages can be transferred to hard disk for much greater capacities. The Model 16 versions require the TRS-80 Model 16, with two floppy disk drives or with a TRS-80 Hard Disk Unit, and 15-inch wide printer with tractor. COBOL source code is available at extra cost after signing a special license agreement. (Note: Because of the operation of COBOL's Indexed Sequential File Access system, limits of these programs will vary with individual installation. For further information, visit any Radio Shack outlet where Model II and Model 16 are sold.)

General Ledger

Superb "total" system that will interact with the Accounts Payable, Payroll and Accounts Receivable programs on this page. An easy-to-maintain control file allows you to use multiple profit centers. Reports include: Income Statement, Balance Sheet, Supporting Schedules, 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), Statements of Cash Flow, Changes in Financial Position, and Changes in Components of Working Capital.

Model II. 26-4601 . . . . 499.00
Model 16. 26-6201 . . . . 599.00

Accounts Receivable

An open item and/or balance forward system that will interface with the 3-Disk General Ledger, Order Entry/ICS and Sales Analysis programs. 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.

Model II. 26-4604 . . . . 499.00
Model 16. 26-6204 . . . . 599.00

Accounts Payable

An accrual system that will interface with the General Ledger program. 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 and Vendor Analysis.

Model II. 26-4605 . . . . 499.00
Model 16. 26-6205 . . . . 599.00

Payroll

A complete, time-saving payroll system that calculates and prints checks and provides distribution to multiple General Ledger accounts (interacts with General Ledger program). 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.

Model II. 26-4603 Avail. 12/30/82 . . . . 599.00
Model 16. 26-6203 Avail. 12/30/82 . . . . 699.00

Order Entry/ICS

Allows both single-pass invoicing and two-pass open order entry with separate billing. Requires and interacts with Accounts Receivable program. 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. Prints: Item Receivings Register, Billing Edit List, Picking Tickets, Order Edit List, Price List, Item Stock Status Report and Purchasing Advice Report. Also prints Sales Analysis by Item, by Product Category and by Item Sales Volume when used with Sales Analysis (below).

Model II. Requires 4 disk drives or hard disk.
26-4607 . . . . 499.00
Model 16. Requires 3 disk drives or hard disk.
26-6207 Avail. 10/30/82 . . . . 599.00

Sales Analysis

Effective way to examine and evaluate sales information. Data is obtained from customer file of A/R or item file of Order Entry/ICS. Shows sales activity by customer, customer type, customer sales volume, salesman, state, item, item category or item sales volume.

Model II. Requires 4 disk drives or hard disk.
26-4608 . . . . 299.00
Model 16. Requires 3 disk drives or hard disk.
26-6208 Avail. 10/30/82 . . . . 399.00

System as Shown

12,345

Our top-of-the-line TRS-80 Model 16 system! Includes 128K 1-Drive TRS-80 Model 16 (26-6001), 128K Memory Kit (26-6012), TRS-80 Hard Disk Unit (26-4150), DMP-500 Printer (26-1252), Cable (26-4401), Printer Stand (26-4302), and System Desk (26-4301). TRS-80 Model II systems, as low as $6483, are also ideal for these business applications.

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Programs for Today's Lawyer, Doctor and Contractor

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. Includes "statement simulation" for final billing adjustments. Requires three external disk drives.
26-4520 . . . . 499.00

WESTLAW™

Turns your Model II into a powerful electronic "law library"! Access the US Code, Code of Federal Regulations, Federal and state case law libraries, Shepard's Citations service and more at a low hourly rate. Requires 1200-baud modem and registration with West Publishing. 26-4560 . . . . 249.00

Litigation Support

A versatile computerized information storage and retrieval system designed for the attorney. This docket control program helps you research articles, organize notes, and keep track of reports and correspondence. Just enter a client's background, case history, and correspondence. At a moment's notice, you can be reviewing the case. Store up to 350 client records, with 12 pleas and 10 memos. Litigation Support also doubles as a paralegal. Just enter documents associated with a case—such as a memo, letter or conversation. Then by simply typing in a subject, topic, case number or keyword, the computer displays any matching records. Store up to 575 records, with 144 characters for sources and 255 characters for description. Litigation Support even prints complete reports and mailing labels. Merge names and addresses with form letters using SCRIPSIT (26-4531) and extra disk drive.
26-4545 . . . . 299.00

Medical Office System

The Radio Shack Medical Office System is designed to provide a fast and efficient system for collecting and managing accounts receivable. It accomodates a large individual practice or a medical clinic with up to ten physicians. 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 provides complete audit trails and detailed reports, cutting the time you presently spend on accounting and preparing statistical reports. Zero-balance double-entry accounting maintained automatically. 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

Job Costing

Designed to aid small construction companies in the preparation of job estimates, and to enable them to accurately track the progress and cost of each job. It keeps up with your two most valuable resources—time and money. Expenses are entered as they are incurred and are posted to each task by cost category. Detailed and summary information available on each job. Job Costing can be used for internal auditing to check invoices and purchase orders, too. As jobs are completed, year-to-date profit and loss is maintained on disk. It's an invaluable tool for estimating work volume and average gross profit.
26-4513 . . . . 149.00

System As Shown
7683⁰⁰
This is an ideal system to run all software on this page, and 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, DMP 500 printer (26-1252), and Printer Cable (26-4401).

Model II Software on This Page Will Run and Model 16 in the Model II Mode

Programs To Streamline Your Business Operations

Inventory Management System

Take stock of your business quickly and easily! Inventory control is an important priority for every company that has to maintain an investment budget, yet meet its consumer demand. Achieving the proper balance requires information about the flow of merchandise through an inventory, and prudent decision making concerning that flow. When used as a management tool, Inventory Management System (IMS) can help make consistent and efficient inventory a reality for your company. It handles up to 3000 inventory line items, 200 vendors, on-hand quantities up to 999,999, with a maximum selling price of any item at $9999.99. IMS goes beyond most "traditional" inventory systems by projecting your reorder needs based on analysis of past performance and sales trends. You can also analyze your stock turnover and calculate the gross margin for each stock item. Reports generated include: Master Inventory List, Vendor Listing, Transaction Posting Report, Suggested Order List, ABC Code Analysis, Physical Inventory Worksheets, Physical Inventory Error Report and an Inventory Performance Report, which includes a Total Inventory Performance Summary, ABC Code Performance Summary and ABC Code History Summary. Our Inventory Management System interfaces with General Ledger program (26-4501). 26-4502 . . . . 199.00

Order Entry With Inventory Control

A unique package with deluxe features that can become a vital part of your business. It can help you simplify your inventory control and get complete reports on stock levels. This program is designed primarily for non-manufacturing distributors that maintain up to 650 accounts in accounts receivable and up to 2000 items in inventory. It reduces duplication of efforts, and saves time in filling orders, producing invoices and posting sales and adjustments to each customer account. For example, it records and processes back orders with automatic filling capability. It can use either the long or short invoice forms. You can even modify the invoice format to meet your specific needs. It prints a Picking List to aid in pulling items from stockroom or warehouse. Our Order Entry with Inventory Control interfaces with the Model II Accounts Receivable program (26-4504). Requires three external disk drives. 26-4514 . . . . . . 199.00

Inventory Control System(ICS)

Periodic inventory counting is a necessity in business. Our Inventory Control System (ICS) will make the task less tedious and save your business money. Inventory control becomes easier and more accurate as the system assists you in cycle counting, ordering from vendors, and numerous other tasks. It can even handle partial receipts. This efficient and easy-to-implement inventory management system has features that allow you to custom-design your own reports. You can create reports that fit your needs exactly. 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. It provides a Sales Journal, prints a Cycle Count Worksheet, and provides a suggested order listing by prime vendor (based on a pre-defined inventory level). Handles up to 3000 inventory items with 2 disk drives, 6000 with 3 disks, and 9000 with a 4-disk system.

Model II. 26-4602 . . . . 299.00

Model II Hard Disk. Allows up to 30,000 items. Uses location-of-item code as a third possible key. Prints additional "Location" report. 26-4802 . . . . 399.00

Model 16 Hard Disk. 26-6302 . . . . 399.00

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. Installed in four stages. First, Inventory holds up to 2100 items and can function as an independent inventory system. Second, Bill of Materials holds up to 600 bills with up to 99 components each. Third, Order Entry and Movement allows entry of up to 200 manufacturing orders and moves them through all phases of production. Fourth, Planning helps with labor scheduling, projects material requirements, and order completion dates. Requires 2 external disk drives. 26-4509 Avail. 10/30/82 . . . . 750.00

Statistical Analysis

A menu-oriented data analysis system ideally suited for applications in business, education, medicine, and other fields. The programs can be run with little formal knowledge of data analysis techniques and no knowledge of computer programming. Each program interacts with you to guide you in conducting statistical research. Statistical Analysis includes programs for descriptive statistics, graphic histogram, frequency distribution, one and two-way analysis of variance, one-way analysis of co-variance, correlation matrix, chi-square analysis, time series analysis, and item analysis, multiple linear 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 are available for employer benefits, and up to 227 characters for employee duties. Prints reports, plus two mailing labels. 26-4621 . . . . 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. Reviews and updates security prices, market averages, split stocks, and adjustments for dividends. Builds and maintains four libraries of information—a library of up to 500 Client Accounts, a library of up to 500 Securities, an ongoing Transactions File, and a matched-off Liquidations File. The Transactions File produces well-organized, accurate screen and printed reports, such as Master List of Accounts, Master List of Securities, Statement of Account, Realized Long and Short Term Gains by period, and Cross Listing of securities. Additionally, the program prints Client Portfolio Statements for Position Summaries as well as Tax Lots, a Buy and Sell Blotter, a Posting Journal and a Liquidations Report as an audit trail. 26-4525 Avail. 10/30/82 . . . . 995.00

Advanced Programming/Communications Software for TRS-80 Versatility

Assembly Language Development System

This powerful five-module package offers the assembly language programmer a number of important features:
EDITOR—Full-screen editor with global find/change, and the ability to output to video or a printer automatically while in the editor mode. You can execute most TRSDOS commands without exiting editor, and load single files 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 and undocumented mnemonics.
LINKER—Indirect command file, optional module cross reference, entry point, and symbol listing.
DEBUGGER—Full trace functions, load and dump programs in file image, and do conversions and simple math commands. 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, 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.
Model II. 26-4712 . . . . 249.00

Program Editor

This package can be used with any of our Model II languages (see page 17). When you're editing large programs, it's 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.
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 and constants can be specified in octal, hexidecimal 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. Includes user's manuals and sample program.
Model II. 26-4702 . . . . 199.00

Editor/Assembler, Series I

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.
Model II. 26-4713 . . . . 49.95

ReformaTTer™

Prepare programs and data for use with IBM® equipment 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, including creation/expiration date, record length, beginning of extent, end of extent, write protect, accessibility, and bypass and verify fields. 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. And the convenient menu presentation and descriptive prompting messages make it easy to learn and use. Requires one additional disk drive.
Model II. 26-4714 . . . . 249.00

Binary Synchronous Communications 3270

This program allows your TRS-80 microcomputer to emulate an IBM 3270/3271/3275/3277 display station. You can communicate to a remote computer using standard IBM Binary Synchronous (BSC) protocol for the 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, including screen formatting, polling responses, data link control, time-out control, and cyclic redundancy checking. A TRS-80 equipped with this on-line standard binary synchronous communications 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. Editor/Assembler (26-4702) may be used for mode reconfiguration. Requires modification of the "A" serial port (extra charge).
Model II. 26-4715 . . . . 995.00

IBM/DEC® 3780-Compatible Binary Synchronous Communications

With this communications program, your TRS-80 microcomputer can function as an IBM-compatible remote terminal or a Remote Job Entry (RJE) terminal connected to a mainframe computer. This batch standard binary synchronous communications 3780 program 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 decide 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. Editor/Assembler (26-4702) may be required if mode reconfiguration is needed. Requires modification of "A" serial port (extra charge).
Model II. 26-4716 . . . . 995.00

Model II Programs Will Run on a Model 16 in Model II Mode. Model 16 Programs Will Run on a Model II with Upgrade Kit.

Choose the Model II/Model 16 Languages You Need for Program Development

Language versatility! That's what you get with TRS-80 Model II and Model 16. Radio Shack offers you several sophisticated programming languages—each developed for a particular type of application.

The TRS-80 adapts easily to your choice of programming languages because the system has no primary language stored in memory. You simply load the disk and you're all set! That makes your TRS-80 system able to meet your growing or changing requirements.

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! And each package includes complete, user-oriented program documentation.

COBOL Development System

COmmon Business Oriented Language is perhaps the most popular programming language for business and accounting applications. That means a wide selection of software is available—much of which can be transferred to the TRS-80 Model II or Model 16 with little or no modification. Radio Shack's COBOL is a high-level implementation of the ANSI-74 COBOL standard for minicomputers. It features multi-keyed ISAM (Indexed Sequential Access Method) 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. Radio Shack's COBOL Development System is supplied on a single diskette with deluxe binder and includes User's Guide, COBOL Language Manual, Run-Time package, and sample programs.

Model II. 26-4703 . . . . 299.00
Model 16. 26-6100 . . . . 299.00

COBOL Run-Time Diskette*

Required for distribution of the COBOL programs you write yourself.

Model II. 26-4704 . . . . 40.00
Model 16. 26-6101 . . . . 40.00

COBOL Generator

Reduce your COBOL development time! It allows a programmer to define a complete software package and then generate a COBOL source program automatically. This source code may then be compiled using Radio Shack's COBOL Development System. Without writing a single line of code, you can 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 one additional disk drive and COBOL Development System (26-4703).

Model II. 26-4707 . . . . 995.00

New! Report Generator

Get printed reports fast! Radio Shack's Report Generator utilizes a dictionary facility to determine the data file(s) you want to report on. The formatted entry screens allow you to easily describe exactly what you want to appear on your report. In addition to reporting data fields, you can include calculated fields, your own report title and column headings, even provide totals. The new Report Generator program is supplied on a single diskette with a deluxe binder and user's guide. Requires one additional disk drive.

Model II. 26-4709 Avail. 10/30/82 . . . . 299.00

New! Programmer-80

Radio Shack's new Programmer-80 is like having your very own custom programmer! It's designed to allow you to quickly and easily create an entire program or a complete series of programs to suit your particular needs. Utilizing a dictionary facility, the formatted screens lead you through the entry of a few key facts about your application. Once you've provided the information, Radio Shack's Programmer-80 automatically produces the program—along with the main menu—that will accomplish your task. It's incredible! Now you can almost effortlessly create data entry or report programs (both simple and complex). Radio Shack's Programmer-80 is supplied on a single diskette with a deluxe binder and includes a user's guide. Requires one additional disk drive.

Model II. 26-4708 Avail. 10/30/82 . . . . 750.00

Compiler BASIC

Allows you to program in BASIC and get the extra accuracy and speed that many applications require. And if you're developing programs to sell, compiled programs protect your code against modifications. Compiler BASIC 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, full error control, complete CRT control, and a single-pass compiler. (Note: Compiler BASIC is intended for program development and not for conversion of existing software.) Includes user's guide and Run-Time package.

Model II. 26-4705 . . . . 199.00

Compiler BASIC Run-Time Diskette*

Required for distribution of the Compiled BASIC programs you write yourself.

Model II. 26-4706 . . . . 30.00

FORTRAN

The original computer language for scientists, mathematicians and engineers. FORmula TRANslator is a universal, statement-oriented programming language designed primarily for scientific, technical or engineering problems expressible in algebraic notation. It requires the programmer to fully define the characteristics of a problem in a series of precise statements—using alphanumerics, mathematical symbols and logical expressions—and is designed to simplify the preparation and checkout of computational computer programs. Radio Shack's 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.
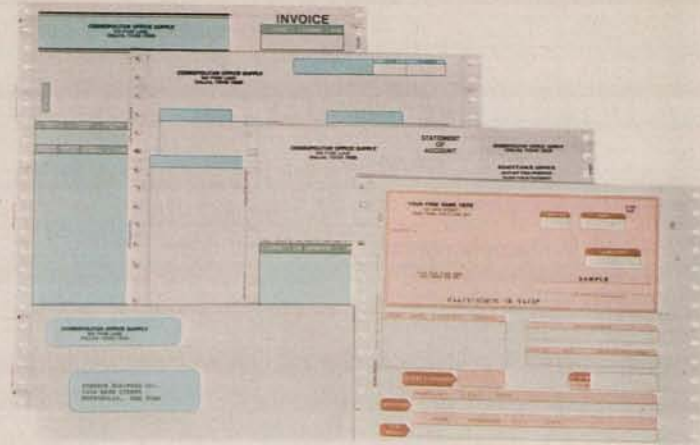
Model II. 26-4701 . . . . 299.00

*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.

Model II Programs Will Run on a Model 16 in Model II Mode. Model 16 Programs Will Run on a Model II with Upgrade Kit.

Complete Your System With Top-Quality Radio Shack Forms

CUSTOM IMPRINTED FORMS AND CHECKS

Form Name	Cross Reference			No. of Parts	Form Catalog No.		Quantity/Prices		
	TRS-80 Mod. No.	Software Cat. No.	Envelope Cat. No.		Brown Forms	Blue Forms	500	1,000	2,000
Accounts Receivable Statement	I & III	26-1555	72-114 72-214 72-250	1	72-101	72-116	65.00	120.00	220.00
				2	72-102	72-117	100.00	180.00	340.00
				3	N/A	72-118	130.00	230.00	435.00
Accounts Payable Check	I & III	26-1554	72-249	1	72-107	72-124	55.00	100.00	195.00
	II	26-4505		2	72-108	72-125	100.00	180.00	340.00
				3	N/A	72-126	120.00	215.00	415.00
Accounts Payable Check	II (3 Disk)	26-4605	72-145 72-245 72-246	1	N/A	72-141	45.00	80.00	155.00
				3	N/A	72-142	110.00	200.00	375.00
General Purpose Form	I & III	26-1568	72-206	1	72-103	72-119	55.00	100.00	195.00
	II	26-4508 26-4504 26-4514 26-4602 26-4802		3	72-104	72-120	110.00	200.00	375.00
	16	26-6302		5	N/A	72-136	160.00	290.00	545.00
General Purpose Form (Long)	II	26-4514 26-4602 26-4802	72-206	1	N/A	72-155	75.00	135.00	255.00
				3	N/A	72-156	150.00	270.00	510.00
	16	26-6302		5	N/A	72-157	220.00	400.00	750.00
Invoice	II (3 Disk)	26-4607	72-135 72-235 72-234	3	N/A	72-151	140.00	250.00	475.00
				5	N/A	72-152	205.00	370.00	700.00
Multi-Purpose Check	III	26-1584	72-145 72-245 72-246	1	N/A	72-153	45.00	80.00	155.00
				2	N/A	72-154	60.00	110.00	210.00
Multi-Purpose Check w/Stub	III	26-1585	72-145 72-245 72-246	1	N/A	72-158	55.00	100.00	195.00
				2	N/A	72-159	100.00	180.00	340.00
				3	N/A	72-160	120.00	215.00	415.00
Payroll Check	I & III	26-1504 26-1556	72-247	1	72-105	72-121	55.00	100.00	195.00
				2	72-106	72-122	100.00	180.00	340.00
				3	N/A	72-123	120.00	215.00	415.00
Payroll Check	II	26-4503	72-248	1	72-137	72-127	60.00	110.00	210.00
				2	72-138	72-128	90.00	165.00	310.00
Payroll Check	II (3 Disk)	26-4603	72-145 72-245 72-246	1	72-143	N/A	45.00	80.00	155.00
				2	72-144	N/A	85.00	150.00	285.00
Statement Of Account	II (3 Disk)	26-4604	72-135 72-235 72-234	1	N/A	72-129	55.00	100.00	195.00
				3	N/A	72-130	110.00	200.00	375.00

IMPRINTED ENVELOPES

Form Cross Reference	Inside Tint	No. of Windows	Envelope Size	Catalog No.	Quantity/Prices		
					500	1,000	2,000
Accounts Receivable Stmt.	No	1	#6¾	72-114	55.00	100.00	195.00
Statement of Account	No	1	#10	72-135	55.00	100.00	195.00
Payroll Check (26-4603), Accts. Payable (26-4605) & Multi-Purpose Checks	Yes	1	8⅝	72-145	55.00	100.00	195.00

Five Great Benefits of Radio Shack Custom Forms

System Support. Radio Shack provides properly designed output forms to enable the TRS-80 user to complete a total business computer system, including hardware, software *and custom forms*.

Proper Design. Our forms are specially designed for use with your TRS-80 software, so you can be sure of compatibility.

Economy. Radio Shack forms are produced in large quantities and sold in small quantities (as few as 500 units), so the tremendous savings are passed on to you.

Quality. All forms are attractively designed and produced to highest printing standards, assuring a positive, "quality" image for your organization.

Convenience. We provide single-source support for the entire TRS-80 business computer system, as well as prompt delivery and resupply. Visit your nearest Radio Shack Computer Center today to place your order!

BLANK ENVELOPES

Form Cross Reference	Catalog Number	Size	No. of Windows	Inside Tint	Qty. Per Carton	Price
Accounts Receivable Statement	72-250	3⅝ x 6½	2	No	1,000	45.00
	72-214	3⅝ x 6½	1	No	1,000	35.00
Accounts Payable Check (26-1554/4505)	72-249	3⅝ x 7¾	2	Yes	1,000	55.00
General Purpose Form (Both)	72-206	3⅞ x 8⅞	2	No	1,000	45.00
Payroll Check for Mod I/III	72-247	3⅝ x 7¾	2	Yes	1,000	55.00
Payroll Check for Mod II	72-248	3⅞ x 7½	2	Yes	1,000	50.00
Statement of Account and Invoice	72-234	4⅛ x 9½	2	No	1,000	45.00
	72-235	4⅛ x 9½	1	No	1,000	40.00
Accounts Payable (3 Disk), Payroll (3-disk), and Multi-Purpose Checks	72-245	3⅝ x 8⅝	1	Yes	1,000	40.00
	72-246	3⅝ x 8⅝	2	Yes	1,000	50.00

Retail prices shown in this catalog may vary at individual stores and dealers.

TRS-80 Computer Accessories for Economy and Convenience
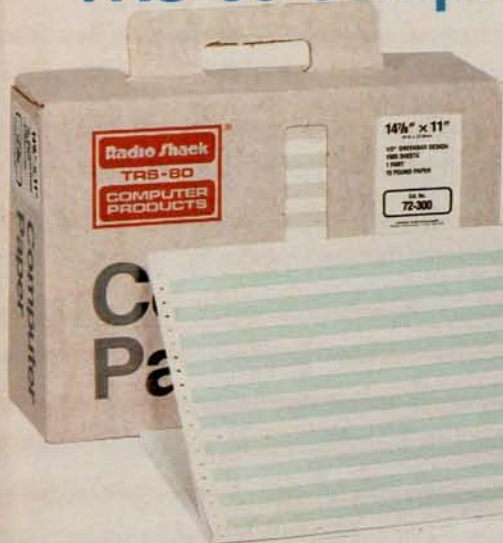
Take Computer Paper Along in These Efficient "Tote" Cartons

Low As 24⁹⁵

- **Buy in Small Quantities and Save**
- **Store Printouts in Reusable Carton**

Feed paper directly into the printer from the reusable carton—when you're finished, it's perfect for storing your printed records. Handy carrying handle lets you take computer paper to another location with a minimum of trouble. Letter-size sheets ($9^1/_2 \times 11$" and $12 \times 8^1/_2$") have detachable, perforated margins. Multi-part sets use clean, carbonless paper, so there's no messy cleanup.

New! Low-Cost Computer Forms Decollator

Separates and Refolds Multi-Part Paper—Either Carbonleaf or Carbonless

249⁹⁵

An affordable manual decollator that's much faster and more reliable than most motor-driven models! Decollates up to 350 ft./min. Adjustable operating speed lets you remain in control at all times. Great for small businesses which require occasional forms decollation. No messy carbon handling, either—a removable bobbin collects them automatically! Includes attachment for carbonless forms. Handles paper up to $16^1/_2$" wide in a full range of weights. 73-1003 . . . . 249.95

Size	Design	Parts	Sheets/Sets	Cat. No.	Price
$14^7/_8 \times 11$"	Greenbar	1	1500 sheets	72-300	34.95
$14^7/_8 \times 11$"	Greenbar	2	750 carbonless sets	72-301	49.95
$14^7/_8 \times 11$"	Greenbar	3	500 carbonless sets	72-302	49.95
$14^7/_8 \times 11$"	Blank White	1	1500 sheets	72-303	34.95
$9^1/_2 \times 11$"	Blank White	1	1250 sheets (20#)	26-1427	24.95
$9^1/_2 \times 11$"	Greenbar	1	1500 sheets	72-304	24.95
$9^1/_2 \times 11$"	Blank White	2	750 carbonless sets	72-305	34.95
$9^1/_2 \times 11$"	Blank White	3	500 carbonless sets	72-306	39.95
$12 \times 8^1/_2$"	Blank White	1	1250 sheets (18#)	72-307	24.95
$14^7/_8 \times 8^1/_2$"	Greenbar	1	1500 sheets	72-308	24.95
$14^7/_8 \times 8^1/_2$"	Greenbar	2	750 carbonless sets	72-309	34.95
$14^7/_8 \times 8^1/_2$"	Greenbar	3	500 carbonless sets	72-310	39.95

Versatile Docu-Rack™ Organizes Your Computer Printouts

59⁹⁵ Trays and binders not included

- **Mobile Roll-Around Frame**
- **Attractive, Sturdy Design**
- **Doubles as Printer Stand**

Docu-Rack Stand. Holds six stackable plastic printout trays (below), hanging post binders (left) or a combination of both. Rolls on casters. $28^1/_4 \times 19^1/_8 \times 13^1/_4$". 74-550 . . . . 59.95
Data Trays. Stackable black plastic trays hold full-size $14^7/_8$" printouts. 26-1309 . . . . 8.49

Fanfold Printout Paper

44⁹⁵ Carton Of 2000

For those long word processing runs, 2000 sheets of economical white $9^1/_2 \times 11$" one-ply, 20-lb. bond.
72-207 . . . . 44.95

Fanfold Mailing Labels

Low As 15⁹⁵

White, pressure-sensitive, $9^1/_2$"-wide carrier.
3-Wide. $2^1/_2 \times {}^{15}/_{16}$". Pkg of 3000. 72-400 . . . . 16.95
2-Wide. $3^{13}/_{16} \times {}^{15}/_{16}$". Pkg. of 2000. 72-401 . . . . 15.95

Hanging Binders

Low As 34⁹⁵ 10 Sets Each

Top Bind. $14^7/_8 \times 11$". 70-505 . . 34.95
Side Bind. $11 \times 14^7/_8$". 70-504 . 39.95
Top Bind. $11 \times 8^1/_2$". 70-506 . . . 34.95

19

New! Low-Cost Printer With Dot-Addressable Graphics

399⁰⁰

- Bit-Image Mode Allows Printing of High-Density Graphics
- Prints 80 Upper/Lower Case 5 × 7 Matrix Characters on 8" Line
- Prints 50 Characters per Second at 10 Characters per Inch
- Underline Capability ■ Use With Any Full-Size TRS-80 CPU

DMP-100. Prints high-density graphic information similar to that on the Color Computer screen (with optional screen print program). Features 480-byte full-line dot buffer, selectable parallel and serial interfaces (600/1200 baud) and adjustable tractor, 4½ to 9½". Uses up to 9½" fanfold paper. With ribbon cassette. U.L. listed. 26-1253 . . . . 399.00

Specifications. *Print Density:* 5 or 10 characters per inch. *Graphic Density:* 60 × 63 dots per sq. in. *Print Speed:* 50 characters per second, 27 lines per minute. *Character Set:* 96 ASCII. *Bit Image:* 480 addressable 7-dot columns. *Dimensions:* 5⁹⁄₁₆ × 16 × 8¼". *Weight:* 8⅜ lbs. *Power:* 120VAC, 60 Hz, 15W.
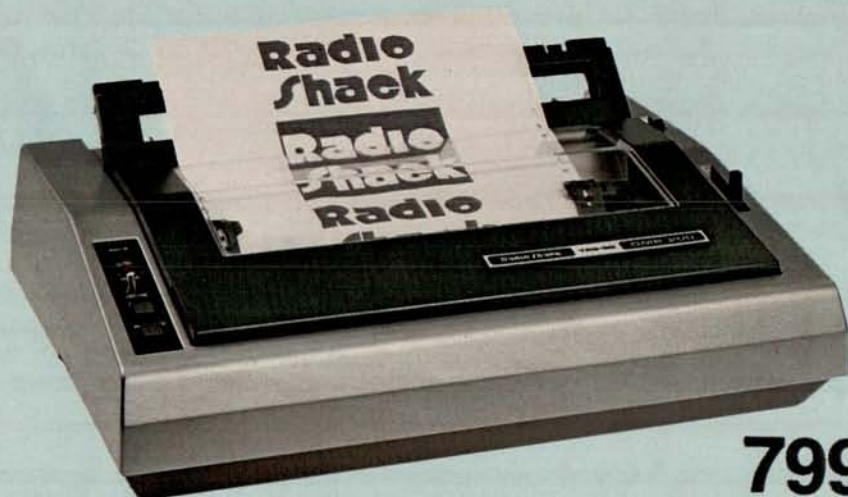
DMP-100 Print Samples

```
10 CPI !"#$%&'()*+,-./0123456789:;<=>?
```

```
10 CPI !"#$%&'()*+,-./0123456789:;<=>?
```

```
5 CPI !"#$%&'()*+,-
```

New! Full-Performance 9½" Printer

799⁰⁰

- Prints 120 Characters per Second at 10 Characters per Inch
- Bi-Directional ■ Prints 55 Full Lines per Minute
- Original, Plus Two Copies ■ Removable Tractor and Friction Platten

DMP-200. A versatile, compact dot-matrix impact printer! Prints 80 characters at 10 pitch, 132 characters at 16.7 on an 8" line. Features selectable parallel and serial interfaces (600/1200 baud). Line feed in ¹⁄₆, ¹⁄₈, ¹⁄₇₂ increments. On/Off Line, Restart and Paper Feed controls. Power-On indicator. U.L. listed. 26-1254 Avail. 10/30/82 . . . . 799.00

Specifications. *Print Speed:* Standard 10 cpi—104 lpm/20 col., 80 lpm/40 col., 55 lpm/80 col.; Correspondence 10 cpi—520 wpm. *Pin Wire Diameter:* 0.35mm. *Horizontal Dot Resolution:* 60-100 dots/inch, 480-800 dots/line. *Dimensions:* 5 × 16½ × 13½". *Weight:* 16½ lbs. *Power:* 120VAC, 60 Hz, 85W.

See Page 23 for Paper & Ribbons. Printer Cables Are on Page 26.

New Family of Feature-Packed Dot-Matrix Impact Printers

- Built-In Graphics Capability at No Extra Cost
- Bi-Directional Logic-Seeking 9-Wire Print Heads
- These Printers Pack a "Triple Mode" Punch

Our three new dot-matrix printers offer incredible versatility and value. Each one includes Word Processing functions to emulate Daisy Wheel features for great looking printouts. This mode gives you proportionally-spaced and mono-spaced correspondence character sets, backspacing, bold face and underlined characters, superscripts and subscripts. A Bit-Image (dot addressable)

New! Superb 15-Inch Wide Printer

New! All-Business Printer

1195⁰⁰

- Full 132-Column Capacity, Yet Compact With Low-Profile Styling
- Prints 140 Characters per Second at 10 Characters per Inch
- 51 Full Lines per Minute ■ Adjustable, Removable Tractor

DMP-400. Cover design aids in noise reduction. Line feed in 1/6, 1/8, 1/72, 1/216 increments. Tractor allows use of 4" to 15" fanfold paper. Friction platten for single-sheet paper. Prints original, plus two copies. Selectable parallel and serial interfaces (600/1200 baud). Paper Feed and Form Feed controls. On-Line indicator. U.L. listed. 26-1251 .... 1195.00
Specifications. *Print Speed:* Standard 10 cpi—181 lpm/20 col., 126 lpm/40 col., 78 lpm/80 col., 51 lpm/132 col. Correspondence 10 cpi—705 wpm. *Pin Wire Diameter:* 0.30mm. *Horizontal Dot Resolution:* 60-100 dots/inch, 792-1320 dots/line. *Dimensions:* 4¹¹/₁₆ × 15³/₈ × 11". *Weight:* 16¹/₂ lbs. *Power:* 120VAC, 60 Hz, 85W.

1795⁰⁰

- Lowest Price Ever for High-Performance, Heavy Duty Design
- High-Speed—Prints 220 Characters per Second
- Prints 76 132-Column Lines per Minute ■ Bi-Directional

DMP-500. This hard worker is ideal for heavy business use. Logic-seeking head gives you fast speed and efficiency. Prints original, plus three copies. Adjustable tractor adjusts from 4" to 15". Line feed in 1/6, 1/8, 1/72, 1/216 increments. Paper advance in fine-line increments for aligning preprinted forms. Paper Feed and Form Feed controls. On-Line indicator. Parallel interface—use with TRS-80 Model I, II, III or 16. U.L. listed. 26-1252 Avail. 10/30/82 .... 1795.00
Specifications. *Print Speed:* Standard 10 cpi—293 lpm/20 col., 201 lpm/40 col., 119 lpm/80 col., 76 lpm/132 col. Correspondence 10 cpi—1043 wpm. *Pin Wire Diameter:* 0.30mm. *Horizontal Dot Resolution:* 60-100 dots/inch, 792-1320 dots/line. *Dimensions:* 7¹¹/₁₆ × 24⅜ × 15⅞". *Weight:* 50 lbs. *Power:* 120VAC, 60 Hz, 180W.

Three Print Modes for Ultimate Versatility

mode allows impressive graphics, and a Data Processing mode provides the most efficient computer output. Each printer has special repeat and column addressing codes to make graphic programming easier. An elongation mode that doubles character size and a bold mode allow a wide range of character styles. Mode and pitch are switch or software selectable. Each printer can use 8½" single-cut sheets or standard fanfold paper with the adjustable tractor feed. These printers are built exclusively to Radio Shack's demanding specifications.
General Specifications. (See each printer description for specific features). *Character Set:* 96 ASCII, 32 special and 30 block graphics characters. *Print Density:* 10, 12 or 16.7 characters per inch (cpi) in either a 9 × 9 or 15 × 9 dot matrix, n-23 matrix proportionally-spaced font. *Line Feed:* Forward, reverse; 1/6, 1/12. *Resolution:* 60 dots/inch at 10 cpi; 72 dots/inch at 12 cpi; 100 dots/inch at 16.7 cpi. *Buffer:* 2K RAM.

```
10 CPI STANDARD  !"#$%&'()*+,-./0
12 CPI ELITE !"#$%&'()*+,-./0123456789
10 CPI CORRESPONDENCE  !"#$%&'()*
PS MODE  ABCDEFGHI  abcdefghi vwxyz{|}~
16.7 CPI CONDENSED !"#$%&'()*+,-./0123456789:;<=>?@AB
10 CPI BLOCK GRAPHICS
All Fonts: Bold & Elongate
```

New! Manual Setting Switches

Handy switches allow "custom-set" modes, pitches, and interface options. For easy operation with your existing software.

Our Finest Word Processing Printer

- Crisp, Clean Electric Typewriter "Look"
- Prints Over 500 Words Per Minute
- Interchangeable 124-Character Print Wheels

1995⁰⁰

Complete with Print Wheel And Ribbon

Our Daisy Wheel II high-speed "letter-quality" printer gives you the "executive" look you want for important documents. Switch selectable print densities—fixed 10 or 12 cpi or proportional spacing. Prints an average of 43 characters per second (500-plus words per minute). Printer features forward and reverse paper feed and 1/2-line feed, underline, bold-face, and backspace. Interchangeable, long-lasting print wheels snap in easily for different type faces. Each one includes many special symbols and characters useful for a wide variety of word processing applications. "External Program Mode" allows use of wheels with different pitch or special characters.

Friction-feed mechanism adjustable for up to five carbons. 15-inch platten. With Courier 10 print wheel and carbon ribbon. U.L. listed.
26-1158 . . . . 1995.00

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). *Carriage Motion:* Unidirectional, optimal motion seeking. 300 ms carriage slew rate. *Character Set:* 124 (96 ASCII, plus special and international), 21 control codes. *Paper:* Up to 16" wide. 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 bit data parallel; 36-pin Amphenol connector. *Dimensions:* 8 x 24 1/2 x 15 1/2". *Weight:* 28 lbs. *Power:* 120VAC, 50/60 Hz, 141 Watts.

Interchangeable Print Wheels

Snap-in print wheels make the Daisy Wheel II and DWP-410 ideal for any application.

Choose from a Variety of Styles

Each wheel has upper and lower case characters, punctuation marks and special characters—124 characters in all. Each prints up to 40 million characters. Select the type style that fits your needs.

Print Wheels for Daisy Wheel II

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 **Tile 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
I **PS Bold.** 26-1488	. . . .	39.95

Acoustic Cover for Quiet Printing

Lid lifts for easy access. Works with tractor feed (12-1446 and 26-1447). Not for use with 26-1448 or 26-1260. 14 x 28 x 21 1/2". U.L. listed.
26-1455 . . . . 399.00

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

Automatic Envelope Feeder

1195⁰⁰ Holds Up to 200 Envelopes

Automatically feeds envelopes into aligned typing position at up to 1200 per hour. Size 6 to 10. Easily removed. Requires installation (not included).
26-1260 . . . . 1195.00

Printer not included

Bi-Directional Tractor Feed

Adjustable To 15" 289⁹⁵

Keeps pin-fed labels, preprinted and multi-part forms in perfect alignment. Bi-directional for accurate printing control. Paper separators. Quick, easy installation and removal. 26-1447 . . . . 289.95

Printer not included

Automatic Sheet Feeder

Holds Up to 200 Sheets 1495⁰⁰

Ideal for printing on your own letterhead. Microprocessor-controlled to give proper alignment every time. Adjusts for paper length and width. Removes easily. Requires installation (not included).
26-1448 . . . . 1495.00

Printer not included

Now You Can Print With Style

A ABCDEFG abcdef 01234 :;<=>?

B ABCDEFGH abcdefg 01234 :;<=>?

C ABCDEFGH abcdefg 01234 :;<=>?

D ABCDEFGH abcdefg 01234 :;<=>?

E *ABCDEFGH abcdefg 01234 :;<=>?*

F ABCDEFG abcdef 01234 :;<=>?

G ABCDEFGH abcdefg 01234 :;<=>?

H ABCDEFGH abcdefg 01234 :;<=>?

I ABCDEFGH abcdefghi 0123456 !#$%&*

Print Wheels for DWP-410
A	Courier, 10 pitch. 26-1430	29.95
B	Prestige Elite, 12 pitch. 26-1431	29.95
C	Madeleine PS. 26-1432	29.95
D	Cubic PS. 26-1433	29.95
E	Tile Italic, 12 pitch. 26-1434	29.95
F	OCR B. 26-1435	39.95
G	Letter Gothic, 12 pitch. 26-1436	39.95
H	Cubic 15. 26-1438	39.95
I	PS Bold. 26-1439	39.95

Bi-Directional Tractor Feed. Just snap into place to use fanfold paper with DWP-410. Ideal for labels, multi-part forms or long DP runs. Requires minimal printer supervision. Removes easily. 6⅜ × 20⅜ × 13". 26-1459 . . . . 239.95

New! Low-Cost, Full-Featured DWP-410

- **Gives Letters That "Professional Look"**
- **Prints Over 300 Words Per Minute**
- **Ideal for Use With SCRIPSIT™ Word Processing**
- **Automatic Paper Set Makes Paper Insertion Easier**
- **Selectable Print Density**
- **Interchangeable Print Wheels for Type Selection**

1495⁰⁰

Our new DWP-410 can produce hundreds of copies— each with that electric-typewriter "look". Select 10 or 12 characters per inch, or proportional pitch. Features forward and reverse paper feed and ½-line feed, underline, boldface and programmable backspace. You also get $1/120$" space and $1/48$" line feed. Automatic Paper Set makes paper insertion a breeze. Just place a sheet at the rear of the 15" platten and pull the Autoset lever. Paper automatically rolls up to the first line position. "External Program Mode" lets you use print wheels with different pitch or special characters. With Courier 10 print wheel and carbon ribbon cartridge. U.L. listed. 26-1250 . . 1495.00

Specifications
Print Density: 13.6" line. Switch selectable 10 cpi (136 characters per line), 12 cpi (163 cpl), or proportional spacing. *Print Speed:* 25 cps nominal; 11.7 lpm at 10 cpi, 132-column (Over 300 wpm). *Carriage Motion:* Unidirectional, optimal motion seeking. 1000 ms slew rate. *Character Set:* 124 (96 ASCII, plus special and international), 23 control codes. *Paper:* Up to 16" wide. Original, plus 5 copies. Friction feed. *Ribbon:* Multi-strike carbon or nylon cartridge. *Interface:* Standard 8 bit data parallel; 36-pin Amphenol connector. *Dimensions:* 7¾ × 23¾ × 13". *Weight:* 35 lbs. *Power:* 120VAC, 50/60 Hz, 141 Watts.

TRS-80 Printer Accessories–Ribbons, Paper and Mailing Labels

Radio Shack continues to support these printers.

Replacement Ribbons
Radio Shack Printer	Ribbon	Character Life	Catalog No.	Price
LP I, II, IV	Fabric Ribbon Pack	1 million	26-1413	3/18.95
LP III, V	Fabric Ribbon Cart.	2 million	26-1414	13.95
LP VI, VIII, DMP-400	Fabric Ribbon Cart.	1 million	26-1418	11.95
LP VII, DMP-100	Re-inking Fabric Cart.	2 million	26-1424	8.95
DMP 500	Fabric Cart.	4 million	26-1482	12.95
DMP-200	Fabric Cart.	4 million	26-1483	15.95
DMP-200	Refill Pack	4 million	26-1489	3/18.95
DW II, DWP-410	Carbon Film Cart. Multi-strike	250,000	26-1419	3/21.00
DW II, DWP-410	Nylon Ribbon Cart. Black	1 million	26-1449	10.95

Paper	Quantity	Cat. No.	Price	LP VII, DMP-100	LP II, IV, VIII, DMP-200	LP III, V, VI, DMP-400, 500	DW II, DWP-410	Printer Plotter 26-1190	LP I 26-1150	Quick Printer 26-1153	QP II 26-1155	Tractor LP 26-1152
8½" Roll.	400' Roll	26-1402	2/19.95		×				×			
9" Roll. 8½" pin-to-pin.	90' Roll	26-1407	4.95					×				
9½" Fanfold White. Perforated margin.	500 Sheets	26-1423	8.95	×	×	×	×*					×
9½" Fanfold White. 20#. Tote Box.	1250 Sheets	26-1427	24.95		×	×	×*					×
9½" Fanfold Green Bar.	3100 Sheets	26-1403	39.95	×	×	×	×*					×
14⅞" Fanfold Green Bar.	3200 Sheets	26-1417	49.95			×	×*					
Mailing Labels. 15/16 × 4¼", 5" carrier.	4000 Labels	26-1404	19.95		DMP-200	×	×*					×
Dry Gum Labels. 9½" Fanfold. 1 × 4¼", 2-up.	2400 Labels	26-1456	9.95	×	×	×	×*					×
Electrostatic. 2⅜" Roll.		26-1412	3.95								×	
Electrostatic. 4¾" Roll.		26-1405	3/16.95							×		

*With optional tractor feed.

Get Incredible Color Graphics With These Affordable Multi-Pen Plotters

1995.00

- Color Adds a Vivid New Dimension of Depth and Clarity To All Kinds of Charts and Graphs
- High-Level Graphics Software for All TRS-80 Disk Systems
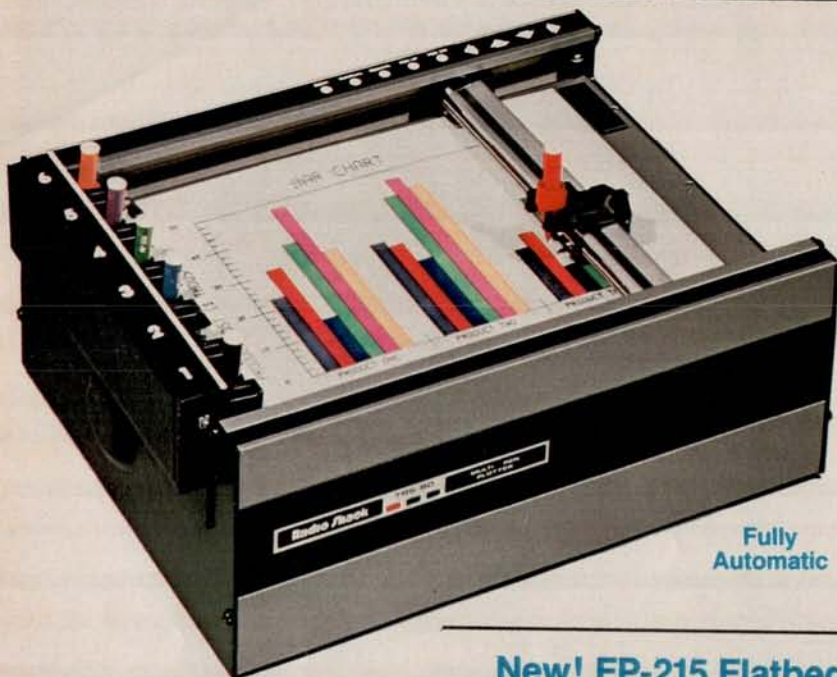
TRS-80 Multi-Pen Plotter. Our best! Create sophisticated charts and graphs in up to six colors. This "intelligent" plotter uses simple ASCII commands to allow you to generate points, lines, circles, arcs and identification markers. Draws 93 upper and lower case alphanumeric characters in nine sizes and four rotations, too. Draws on paper with replaceable hard-nib pens or film sheets with felt-tip markers. Features include automatic pen selection, chart hold down, and touch panel pen motion controls. RS-232C serial interface. Disk software supplied is menu-driven—no programming necessary—so anyone can draw, save and recall "professional" line and pie charts, complex bar graphs, designs and more. Includes six hard-nib pens. U.L. listed. 26-1191 .... 1995.00

Fully Automatic

Specifications. *Paper Size:* 8¹/2 × 11". *Plot Size:* 7 × 9¹/4". *Speed:* 2.8" per second. *Step Size:* 200 per inch. *Dimensions:* 6 × 13¹/2 × 10¹/2". *Weight:* 20 pounds. *Power Requirements:* 115VAC, 50/60 Hz.

Multi-Pen Plotter Clear Plastic Film

13.95
For Use With Felt-Tip Pens

Polyester Film Resists Tearing and Curling

Make high-quality transparencies for overhead projection, animation, overlays and slides. Fifty 8¹/2 × 11" sheets. 26-1479 .... 13.95

New! FP-215 Flatbed Plotter/Printer

995.00

Get High-Speed Plotting and High-Quality Four-Color Graphics at an Affordable Price!

Draws using BASIC ASCII command codes and parameters. Prints text horizontally or vertically using BASIC LPRINT command. Single pen plotting—pens can be changed easily to make multi-color plots. Red, blue, green and black pens included. Features self-test and automatic print functions. Includes parallel and RS-232C serial interfaces. U.L. listed. 26-1193 Avail. 12/15/82 .... 995.00

Specifications. *Paper Size:* 10¹/8 × 14⁵/16" or 8 × 11¹/2". *Plot Size:* 7.32 × 10.63" or 8.5 × 11.73". *Plot Speed:* 100 mm per second (3.93 ips). *Step Size:* 1 mm. *Dimensions:* 4⁵/8 × 16¹/8 × 14⁵/8". *Weight:* 22 pounds. *Power Requirements:* 105-135VAC, 50/60 Hz, 90 Watts.

New! CGP-115 Color Graphics Printer

You Must See To Believe Its Ultra-Compact Size!

249.95

- Uses Easily Replaceable Ink Cartridges
- Includes Serial and Parallel Interfaces

Creates beautiful graphics in red, blue, green and black, plus prints alphanumerics. Built-in commands simplify drawing and plotting. Text mode prints 40 or 80 characters per line at 12 characters/sec. Software controls additional character sizes and rotation. U.L. listed. 26-1192 .... 249.95

Specifications. *Paper Size:* Standard 4¹/2" roll. *Effective Plotting Range:* X-axis—3.8 inches (480 steps), Y-axis—no limit. *Plot Speed:* 2.05 inches per second. *Print Speed:* 12 characters per second. *Characters per Line:* 80 or 40 (text mode). Any size from 1 to 80 per line (graphics mode). *Dimensions:* 2¹⁵/16 × 8¹/4 × 8¹/2". *Weight:* 1³/4 pounds. *Power Requirements:* 120VAC, 60Hz, 23 Watts.

Replacement Paper and Pens for TRS-80 Color Plotters
Keep Extra Supplies Handy

A **Pens for TRS-80 Multi-Pen Plotter** 3.95 Each

B **Pens for CGP-115 Graphics Printer** 2.95 Per Set

C **Pens for FP-215 Plotter** 3.95 Each

D **Roll Paper For CGP-115 Graphics Printer** 4.95 Pkg. Of 3

A Pens for TRS-80 Multi-Pen Plotter—$3.95 ea.

Color	Hard Nib (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

B Pens for CGP-115—$2.95 set

Color	Cat. No.
Black (Set of 3)	26-1480
Red, Green, Blue (Set of 3, one each)	26-1481

C Hard-Nib Pens for FP-215 (for paper)—$3.95 ea.

Black	26-1343
Red	26-1344
Green	26-1345
Blue	26-1346

D **Roll Paper for CGP-115.** 4½" wide, 150-ft. long. 26-1428 .... Pkg. of 3/4.95

# Graphics Systems for Special Applications

New! TRS-80 Color Computer Graphics Input Tablet

349⁹⁵ Plugs Directly Into Program Pak™ Slot

- Captures Up to 100 Points per Second
- Compatible with Computer Graphics Capability

GT-116 "X-PAD." Instant graphics at the touch of a pen! Reads your drawn or traced design into your TRS-80 Color Computer. Ideal for medical, simple CAD/CAM, architectural, educational, business, and other graphic applications. Tablet contains all necessary electronics and is combined with a special passive surface for easy drawing—scaled to be directly compatible with display screen size. Comes with pen equipped with a pressurized leakproof standard ink cartridge that is easily changed or replaced with a stylus for tracing. Menus and other options simplify data input, so keyboarding is minimized. Compatible with machine language routines for high-speed drawing. Easily accessed by Extended BASIC graphics commands. 26-1196 .... 349.95
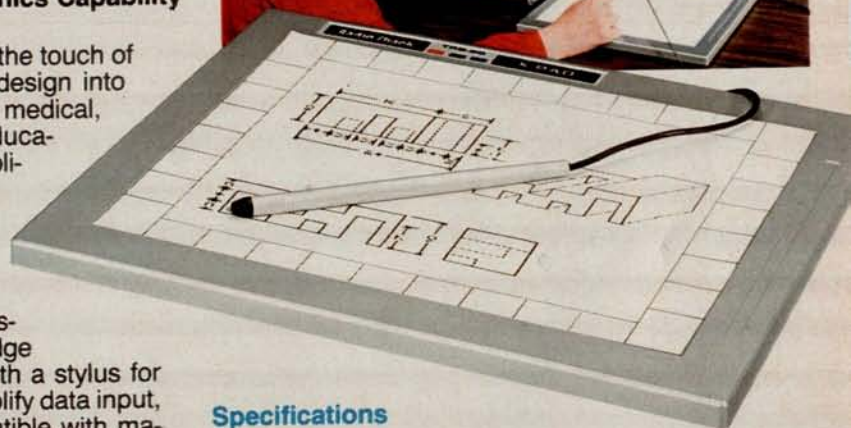
Specifications

Writing Area: 7 × 9″—scaled to be directly compatible with screen size. *Menu Area:* Active to full 8½ × 11″ size. *Pad Size:* 11 × 13″. *Power Requirements:* Supplied by Color Computer.

Input Precise Data Coordinates!

449⁰⁰ Works With Any TRS-80 With RS-232C Serial Port

Ideal for Engineering, Architectural Work, Map and Photo Interpretation, and Much More

TRS-80 Digitizer. Input x/y coordinates from a drawing, map, chart, even photo to your TRS-80. Use this data to calculate length, perimeter, area, volume, and more. 11 × 17″ active area. Includes software listings for basic set-up and use. U.L. listed. 26-1195 .... 449.00

Specifications. *Resolution:* 100 lines per in. *Accuracy:* 0.005″. *Repeatability:* ± 2 LSD. *Operation:* Point or continuous mode. *Dimensions:* 2¼ × 15½ × 4¼″. *Power:* 120 VAC, 60 Hz.

25

Radio Shack Has Cables and Accessories for Your Every Need

We support the TRS-80 with a complete selection of user-proven cables and accessories for almost any application. That makes it easy to choose the right cable for your TRS-80 computer system. These cables are quality-crafted for reliability—so you're assured of outstanding performance. Get the one you need at a Radio Shack Computer Center, store or participating dealer.

Quality Printer Cables

Fig.	Function	Description	Cat. No.	Each
A	Model I/III to std. parallel printer	34-pin edge card to 36-pin plug	26-1401	39.00
B	Model II/16 to std. parallel printer	34-pin header to 36-pin plug	26-4401	39.00
C	Model I bus to std. parallel printer	Active parallel interface, edge card to plug	26-1411	59.00

Cassette Interface Cable

Fig.	Function	Description	Cat. No.	Each
D	Model I, III, Color Computer CPU to audio cassette	5-pin DIN to Audio (3 plugs)	26-1207	5.95

Color Computer Cables

Fig.	Function	Description	Cat. No.	Each
E	Color Computer serial interface	4-pin DIN to 4-pin DIN	26-3020	4.95
F	Model I special serial interface	5-pin DIN to 4-pin DIN	26-3009	4.95
G	Color Computer to Network 3	4-pin DIN to DB25	26-1494	19.95
H	Color Computer to RS-232C interface	4-pin DIN to DB25	26-3014	19.95

Universal RS-232C Accessories

Industry-standard accessories for serial communications. Compact, round cables with molded plugs are quality-crafted for reliability. Pins 1-8, 15, 17, 20, 24 extended.

A Male DB25 to DB25 5-Foot Cable With Terminator. For Model II/16 RS-232C serial interface. 26-4403 . . . . 39.95

B Extended RS-232C Cables. Allow longer cable runs for even more flexibility.
10-Ft. 26-1490 . . . . 29.95
25-Ft. 26-1491 . . . . 39.95
50-Ft. 26-1492 . . . . 54.95
100-Ft. 26-1493 . . . . 89.95

C RS-232C Cable Extender. Connects cables together for longer runs.
26-1495 . . . . 29.95

D Null Modem Adapter. Allows two CPUs to communicate directly using "modem" software. 26-1496 . . . . 29.95
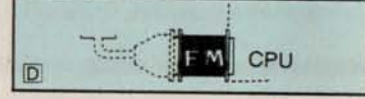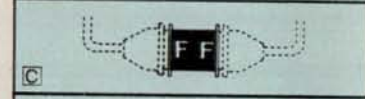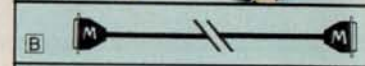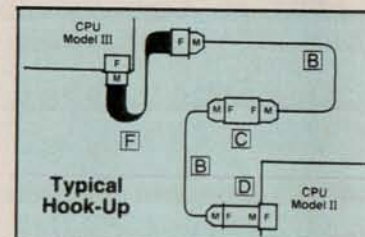
RS-232C Cable and Extender

Fig.	Function	Description	Cat. No.	Each
E	Model III RS-232C serial interface	Male DB25 to DB25 5-ft. flat cable	26-1408	19.95
F	Allows use of round RS-232C cables with Model III	8-inch extender	26-1497	17.95

Typical Hook-Up
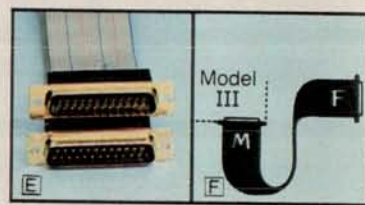
New! Computer Printer and Peripheral Switches Give You Maximum Flexibility

SW-302 Parallel Printer Switch. Dual parallel ports for easy printer switching without changing cables. For any TRS-80 or data terminal with parallel interface capabilities. With power-on LED. 5 × 7½ × 4". U.L. listed AC power module. Cables not included. 26-1498 . . . . 119.95

Connect Two Printers to One Computer—or Two Computers to One Printer
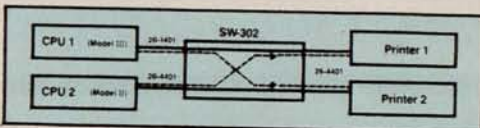
SW-303 RS-232C Selector Switch. Two switched ports for modems, digitizers, plotters and more. The other port is configurable, allowing communication between two computers. For any TRS-80 with RS-232C. 5 × 7½ × 4". U.L. listed AC power module. Cables not included. 26-1499 . . . 149.95
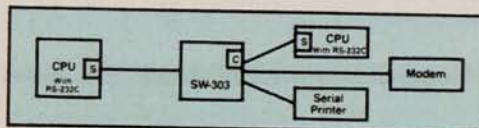
Connect Any Three RS-232C Devices to Your TRS-80 Computer

Supplies to Help You Get Organized and Increase Efficiency

Protect Disks With Flip Files

Keep Disks Handy — Find the One You Need in Seconds

Ideal storage system. Black suede vinyl binder protects 20 diskettes. Files away on shelf when closed, displays a disk at a time when open.

For 8" Diskettes. 70-502 . . . . 39.95
For 5¼" Diskettes. 70-503 . . . 34.95

Diskette Looseleaf Files

- **Low-Cost Storage Protection**
- **Fits Universal Data Binder**

Ⓐ **8" Looseleaf File.** Holds two disks and an index card.
70-513 . . . . Pkg. of 10/12.00

Ⓑ **5¼" Housing Frame.** Holds eight mini disks. With movable index tab for easy filing.
70-514 . . . . Pkg. of 4/14.95

Data Drawer Printout Files

Low As
99⁹⁵

Drawers Have Built-In Handle

- **Binds Heavily-Used Printouts**
- **Each Drawer Holds One Full Inch of Printouts**

Organize and store reports. Six locking, removable drawers. Modular design lets you stack cabinets. With sheet protectors. Baked enamel on metal with plastic drawers.

Standard Printout Size. (for 14⅞ × 11" sheets). 70-507 . . . 109.95
Letter Size. (Up to 8½ × 14" sheets). 70-508 . . . . 99.95
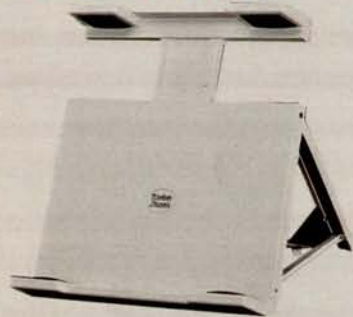
Matching Laminated Teakwood Vinyl Veneer Tops (as shown).
Standard Size. 70-510 . . . . . 22.50
Letter Size. 70-509 . . . . 22.50

Cassette Drawer Holder Insert.
70-511 . . . . 7.50

Printwheel Holder Drawer Insert.
70-512 . . . . 7.50

New! Handy Typing Easel

Keeps Pages in Place

15⁹⁵ Use as a Book Holder, A Lecturn or Display Easel

Holds publications securely by means of adjustable T-bar (8¾ to 13⅞" high) and friction pads. Cushioned base prevents slippage and protects furniture surface. Folding legs for compact storage. 73-2003 . . . . 15.95

Protective Disk Rings

Strengthens Disks

- **Prevents Data Loss**
- **Simple Installation**

Low As **12⁹⁵**

5¼" Disk Saver. 50 rings and installation tool. 70-515 . . . . 12.95
Refill. 50 rings. 70-516 . . . . . . 6.95
8" Disk Saver. 50 rings and installation tool. 70-517 . . . . 14.95
Refill. 50 rings. 70-518 . . . . . . 7.95

New! Accessories for Daisy Wheel II Printer

Ⓐ **9⁹⁵**
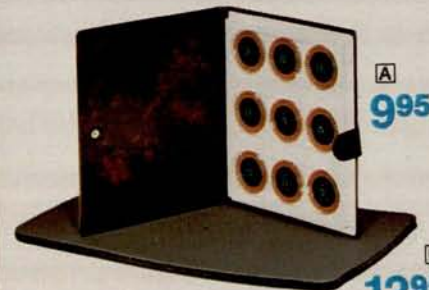
Ⓑ **12⁹⁵**

Protect Your Valuable Investment

Ⓐ **Printwheel Binder.** Protects printwheels from loss or damage. Holds nine wheels. 73-2004 . . . 9.95

Ⓑ **Printer Pad.** Non-skid sponge rubber protects furniture. 20 × 12", ½" thick. 73-2001 . . . . 12.95

Protective Anti-Static Mat

A "Must" for Your System

79⁹⁵
Chair not included

Drains Static Charges That Can Harm Your Computer System

Static electricity can "crash" your system. This mat drains the static charges carried by anyone walking across a carpet. High-impact ⅛" Polyethylene. 36" wide by 48" long overall.
70-500 . . . . 79.95

TRS-80 Computer Diskettes Are Certified for Excellence and Compatibility

- **QUALITY**—Manufactured to the Highest Standards of Excellence
- **RELIABILITY**—You're Assured That Your Programs and Data Are Safe
- **COMPATIBILITY**—Our TRS-80 Diskettes Will Operate in Any Appropriate TRS-80 Disk Drive

Your programs and data are valuable to you—and so is your time. To guard against possible loss of diskette information, and the time needed to re-input it, you need the highest quality diskettes available. Ours are made to the most rigid standards in the industry. They're double-coated with an advanced ferric oxide blend that produces maximum lubrication and resistance to diffusion. Then they're thoroughly tested to insure freedom from defects before being certified and offered to you—our customer.

5¼" Unformatted Diskettes

- Single-Sided
- 40-Track, Soft-Sector
- Double-Density

Single Diskette.
26-305 . . . . 4.95
Diskette 3-Pack.
26-405 . . . . 13.95
Diskette 10-Pack.
26-406 . . . . 39.95

Buy in Quantity and Save!

Quantity (10 Packs)	Per 10 Pack
1-4	39.95
5-9	34.95
10-Up	33.95

8" Unformatted Diskettes

- Double-Density
- 77-Track, Soft-Sector

Single-Sided.
Single Diskette.
26-4905 . . . . 7.50
Diskette 10-Pack.
26-4906 . . . . 59.95

NEW! Double-Sided.
Diskette 10-Pack. Model 16 only. 26-4960 . . 69.95

Buy in Quantity and Save!

Quantity (10 Packs)	Single-Sided Per 10 Pack	Double-Sided Per 10 Pack
1-4	59.95	69.95
5-9	53.95	63.95
10-Up	49.95	59.95

For Best Results Use Only Genuine TRS-80 Computer Accessories

Cleans Drives In Seconds

Universal Disk Drive Head Cleaning Kit

Clean drive heads easily, safely. Includes two special cleaning disks, one bottle cleaning solution.
5¼" Drive Kit.
26-407 . . . . 29.95
8" Drive Kit.
26-4909 . . . . 29.95

Diskette Mailers

NEW! Easy-to-use mailers let you send your disk programs with confidence. Specially designed to prevent bending. Includes inner envelope for dust protection.
5¼". Pkg. of 5.
26-1317 . . . . 5.95
8". Pkg. of 5.
26-4954 . . . . 7.95

High-Quality TRS-80 Computer Cassette Tapes

C-20. Leaderless.
26-301 . . . . 3.79
C-10. Standard leader.
26-302 . . . . 1.79

Quantity	C-20 Each	C-10 Each
1-11	3.79	1.79
12-23	3.29	1.59
24-47	2.89	1.40
48-Up	2.49	1.25

Daisy Wheel Printwheel Cleaning Kit

Keep your Daisy Wheel II or DWP-410 "making a good impression". Cleans clogged recessed type areas. Easy-to-use without mess. 26-1320 . . 16.95
Refill Fluid and Pads.
26-1322 . . . . 5.95

Reduce Harmful Static

Anti-Static Spray. Use on carpet, screen, equipment to eliminate problem-causing static. Lasts until washed off.
26-515 . . . 5.95

Screen Cleaner

NEW! Anti-Stat Kit. Cleaning action adds anti-static protection.
26-1318 . . . 2.95

Replacement Labels

Peelable, non-smear, color-coded labels.
5¼" Diskette Labels.
Pkg. of 50.
26-307 . . . . 1.95
8" Diskette Labels.
Pkg. of 50.
26-4955 . . . . 1.95
Cassette Labels.
Pkg. of 100.
26-303 . . . . 1.95

Your Equipment and Data Storage Media Last Longer if Properly Protected

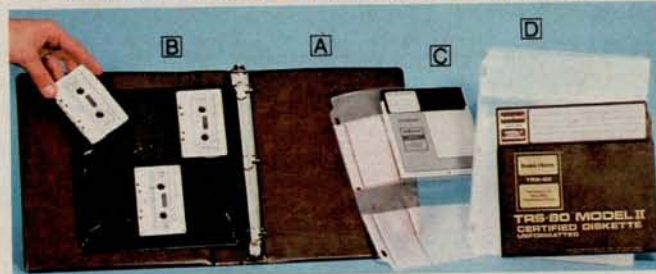## Binder Stores Disks and Cassettes

Pop-Out Easel Front

Diskette Storage Boxes
Flip through up to ten diskettes. Index is visible when open or closed. Polystyrene.

NEW! 5¹/₄" Diskette Storage Box. Black. 26-1321 .... 4.95
**NEW! 8" Diskette Storage Box.** Tan. 26-4956 .... 5.95

A **Universal Data Binder.** 3-ring binder for cassette holders and diskette envelopes. 26-1310 .... 5.95
B **Cassette Holder.** Stores six. 26-1311 ... Pkg. of 2/4.95

Disk Envelopes. Convenient, safe storage.
C **5¹/₄".** 26-510 .... Pkg. of 10/7.95
D **8".** 26-4907 .... Pkg. of 10/7.95

Large File Boxes with Index Dividers

Diskette file boxes each hold 50 diskettes.
A **8" Diskette File Box.** 26-4953 .... 39.95
B **5¹/₄" Diskette File Box.** 26-1453 .... 29.95
C **NEW! Program Pak™ File Box.** Holds 16 Program Paks or cassette boxes. 26-1314 .... 34.95
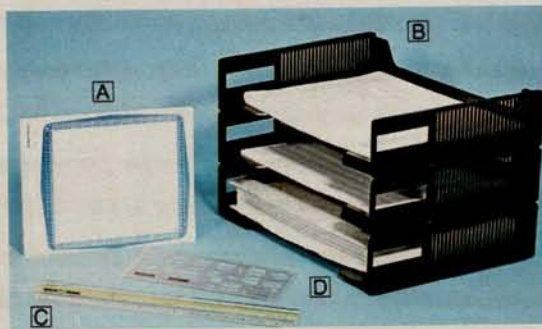
TRS-80 Programming Aids
A **Video/Program Worksheets.** Layout sheets for Model I/III graphics.
26-2105 .... 100 sheets/3.95
B **Stacking Data Tray.** Holds 14⁷/₈" printouts in neat stacks. 26-1309 .... Each/8.49
C **Printview Ruler.** Yellow highlight and magnifying strip. 10, 12 cpi scales.
26-1313 .... 2.95
D **Logic Flowchart Template.** ANSI symbols. ¹/₁₀" layout grid. 26-1312 .... 3.95

Dust Covers 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 durable vinyl with reinforced stitching on all seams.

For Model II/16 Computers. 26-4051	9.95
For Model III Computer. 26-506	7.95
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 CCR-81 Computer Recorder. 26-517	4.95
For LP III or V or DMP-500. 26-505	5.95
For LP VI or DMP-400. 26-507	5.95
For Daisy Wheel II. 26-508	5.95
For Daisy Wheel II and Tractor. 26-516	7.95
For LP VII or DMP-100. 26-512	4.95
For LP VIII. 26-514	4.95
For CGP-115. 26-518	4.95
For DWP-410. 26-520	5.95
For DMP-200. 26-522	5.95

New! Anti-Glare Panel Reduces Reflections

- **Special Optically-Coated Panel Reduces Glare by 94 Per Cent**
- **Maximizes Contrast and Readability**

Mirror-like specular reflection from the surface of computer display screens can cause eyestrain, fatigue, and headaches. Our best anti-glare panel ends these problems. It cuts ambient light reflection without affecting resolution. Easy to clean. Scratch resistant. Attaches quickly to Model I, II, III or 16.
26-1457 .... 29.95
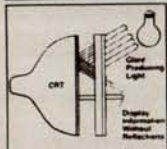
Cuts Glare For a Clear, Sharp Image

Anti-Glare Mask
Nylon mesh reduces glare and improves contrast. Installs easily in seconds on Model I, II, III and 16.
26-511 ...... 16.95

A New Standard in Home Computers! Now Get Our Color Computer With 16K Memory

It's Now $98 Less Than Last Year's Equivalent **399⁹⁵**

- Create Vivid Color Graphics With Exciting Sound Effects and Music
- Uses Instant-Loading Program Paks
- Learn to Write Your Own Color BASIC Programs With the Entertaining Manual
- Upgrade With Extended BASIC Kit
- Expand With a Printer or Disk Drives
- Attaches to Any TV Set

Enter the exciting world of computers with Radio Shack's versatile TRS-80 Standard Color Computer—now with four times the memory! That means more space for programs and data, and better game animation. A TRS-80 Color Computer is incredibly affordable, and great for fun and games, personal uses, education, learning to program and much more. It's an excellent family computer!

Action-Packed Video Games

Ready for fun? Just pop in an instant-loading Program Pak™ and you'll be set to battle starships in outer space, ski an exciting slalom course, repel invading aliens, or challenge the computer at chess, Roman checkers or backgammon. It's like having an arcade right in your own home!

Household and Educational Uses

But playing games is only the beginning. You can set up a budget and keep track of expenses, or create an inventory of household items. Your kids can learn math or typing, enjoy literary classics or make glorious computer "paintings."

Want to Learn to Program?

Our entertaining, "from the ground up" instruction manual will have you writing programs with vivid color displays and exciting sound in no time.

Programming is Fun

Developing your own programs for home or school is easy and exciting. Color BASIC's simple commands let you quickly produce drawings, diagrams and charts. You can choose from eight brilliant colors, create musical tones, solve problems, analyze data, and much more. Then save your work on cassette tape with an optional recorder.

Expand Easily

Add a pair of joysticks for more exciting games, a printer, and a modem for telephone communications. You can also upgrade with 32K memory, our Extended Color BASIC for high-resolution graphics and advanced programming features, and up to four disk drives.

The 16K TRS-80 Standard Color Computer's BASIC language includes data and string handling, dimensioned arrays, math functions, and 9-digit numeric accuracy. Includes instruction manual. U.L. listed.
16K Color Computer. 26-3004 . . . . 399.95

Handy Accessories

Carrying Case. Protects Color Computer or TRS-80 VIDEOTEX keyboard. Padded vinyl. 3½ × 13¾ × 14¾". 26-3007 . . . . 19.95

Joysticks. For faster, more realistic action. 360° movement. Single-shot button.
26-3008 . . . . Pair/24.95

Who is the Color Computer for?

The TRS-80 Color Computer is a great choice for anybody who wants to enjoy video games in a system that can be used for many other household, business and educational tasks. It's ideal for computer beginners who want a system that's easy to learn on but won't limit them to simplistic projects. And it's perfect for hobbyists who want a full-featured computer system—with the opportunity for expansion into high-resolution graphics and advanced programming.

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

Now High-Resolution Color Graphics Are More Affordable Than Ever!

NEW LOW PRICES! Low As 499⁹⁵

- **Easy-to-Use One-Line Commands Make Detailed Color Graphics Incredibly Simple**
- **Create Sophisticated Drawings, Business Charts and Graphs, Engineering Diagrams**
- **256 × 192 Screen Resolution (49,152 Pixels)**

Now you can enjoy creating spectacular graphics with a TRS-80 Extended BASIC Color Computer— for up to $99 less than last year! You get all the features of the Standard Color Computer, plus advanced programming capabilities. It's a truly professional system.

Simple Graphics Commands

Just a few one-line commands make the creation of sophisticated shapes easy. With the LINE command, you can draw a line between two specified sets of screen coordinates. CIRCLE draws a full or partial circle with a specified radius at a specified point. DRAW produces a line or series of lines and lets you specify the direction and angle. PAINT fills a specified area with the color you pick.

A Programmer's Dream

It's easy to add music and sound effects to your programs, too. You can get 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.

Loaded With Dynamic Features

The Extended BASIC Color Computer is ideal for the serious programmer. It allows 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.

We Don't Skimp on Documentation

Each computer comes complete with an operator's manual, our entertaining 308-page manual on Standard Color BASIC, and a 214-page tutorial manual on Extended Color BASIC.

Easily Expandable

You can add a printer, plotter, digitizer, our new graphics tablet, disk drives for increased storage, and a telephone interface at any time. Attaches to any standard TV set. U.L. listed.

16K Extended BASIC Color Computer. Was $599.00 in RSC-7. 26-3002 . . . . 499.95

32K Extended BASIC Color Computer. Was $699.00 in RSC-7. 26-3003 . . . . 649.95

Kits to Upgrade Your Color Computer System

New Low Price! 16K RAM Upgrade Kit. Converts a 4K Color Computer to 16K. Was $99.00 in RSC-7. 26-3015 . . . . 49.00*

32K RAM Kit. Converts a 4K or 16K Color Computer to 32K. 26-3017 . . . . 149.00*

Extended Color BASIC ROM Kit. Upgrade a Color Computer with Standard BASIC for advanced graphic capabilities. Requires a minimum of 16K. 26-3018 . . . . 99.00*

*Price Does Not Include Required Installation.

Color Computer Specifications

Microprocessor: 6809E 8-bit processor. *Clock Speed:* 0.894 MHz. *Keyboard:* 53 keys, including up, down, right and left arrows, BREAK and CLEAR. *Video Display:* 16 lines of 32 upper case characters. Color graphics capabilities range from 32 × 64 (8 colors) to 192 × 256 (1 color and background color) with 3 intermediate formats. Higher resolutions in the same range are available through machine language, Extended Color BASIC or Program Paks. Output connects directly to any standard TV set (300 ohms) and includes video and sound. *Memory:* 16K or 32K internal dynamic RAM. Color BASIC is in 8K ROM, 16K ROM for Extended Color BASIC. *Input/Output:* 1500-baud cassette (recorder optional). Connectors for two 2-dimensional joysticks (optional). RS-232C serial I/O port. *Interrupt Timer:* Accessible from Extended Color BASIC or machine language only. *Dimensions:* 3½ × 13¾ × 14¾". *Power:* 120VAC, 60 Hz, less than 50W.

Additional Extended BASIC Specifications.

Memory: Extended Color BASIC in 16K ROM. *Graphics:* Five formats up to 256 × 192. *Command Statements:* CIRCLE, CLOADM, COLOR, CSAVEM, DEF FN, DEFUSRn, DEL, DRAW, EDIT, GET, INSTR, LET, LINE, LINE INPUT, MID$, PAINT, PCLEAR, PCLS, PCOPY, PLAY, PMODE, PRESET, PRINT USING, PSET, PUT, RENUM, SCREEN, TROFF, TRON. *Functions:* ATN, COS, EXP, FIX, HEX$, LOG, PEEK, POS, PPOINT, STRING$, SQR, TAN, TIMER, USRn.

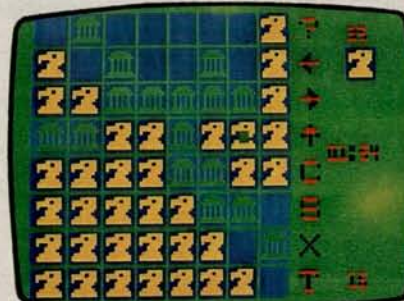# Experience the Excitement and Challenge of These Great Games
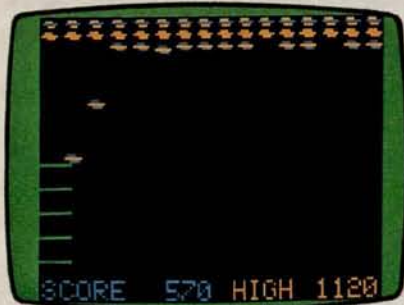
New! Popcorn
Above you: five rows of popcorn. Below you: a conveyor belt. In-between: five frying pans. The challenge: catch the popcorn with your pans before it reaches the conveyor. Miss one and you lose a pan. Catch five rows and you get an extra pan. Nine skill levels. Joysticks required. 26-3090 . . 24.95

New! Shooting Gallery
The carnival beckons—lights, music, and the shooting gallery! Hit the moving targets—owls, ducks, rabbits, faces, rectangles and diamonds—for points. There's lots of surprises! You get 10 turns, with fewer bullets each time. Joysticks required. Minimum system, 16K RAM. 26-3088 . . 29.95

New! Galactic Attack
Enemy spaceships dive bomb your fortification. If you destroy this squadron of ships, the enemy reverts to a "night" attack. Your screen changes to an ominous color. Destroy the first wave of "night" attackers and your points are doubled! Joysticks required. 26-3066 . . . . 29.95

Polaris
Defend your islands from enemy missiles with your fleet of three submarines. Intercept smart bombs and multiple warhead missiles before they split up. Keep track of each sub's salvo! Attack intensifies at each new level of play. For one or two players. Joysticks required. 26-3065 . . 29.95

Space Assault
Get the highest score by eliminating invaders before they eliminate you! Take cover behind protective bunkers. But the enemy is aggressive and destroys the bunkers, too! Beginner and expert levels. Joysticks required. 26-3060 . . . . 29.95

New! Tennis
Realistic matches requiring tennis strategy. Play the computer or another person. Joysticks required. Minimum system, 16K RAM. 26-3080 . . 29.95

New! Roman Checkers
The classic game of strategic placement—as easy to learn as checkers, but as rewarding to play as chess. You play against the computer—at the skill level you've gained. Save games on tape with cassette recorder (optional). Joysticks optional. Minimum system, 16K RAM. 26-3071 . . . . 29.95

New Low Price! Chess
Sharpen your skills with eight levels of difficulty. You're playing against a worthy opponent—the computer! "Castling" allowed. Joysticks optional. Was $39.95 in RSC-7. 26-3050 . . . . 34.95

Super Bustout
Use your paddle to break down up to four brick walls. The more bricks you knock out, the more points you get. It's doubly hard when you play with "gravity." For one to four people. Joysticks required. 26-3056 . . . . 29.95

New Low Price! Dino Wars
Your dinosaur lumbers into position for an attack on your opponent's beast. They "scream," "roar," "yelp," and hit the ground with a "thud." Joysticks required. 16K or 32K RAM recommended. Was $39.95 in RSC-7. 26-3057 . . . . 29.95

New! Mega-Bug
It's a maze of fun as you try to lose the little "buggers" hot on your trail! You eat white dots, leaving a trail of dots behind you. The secret is to leave false trails in order to confuse and lose your chasers. Win by eating all the dots before you're caught. Joysticks required. 26-3076 . . . . 34.95

New Low Price! Skiing
Realistic race against the clock as you maneuver through the gates. Don't hit any flags or veer off course! Joysticks required. 16K or 32K RAM recommended. Was $39.95 in RSC-7. 26-3058 . . . . 29.95

Project Nebula
Prepare for thrilling "dog fights" as you travel through space seeking out and doing battle with enemy vessels. Four modes of skill, each with 10 levels of difficulty. Joysticks required. 26-3063 . . . . 39.95

New! Microbes
You're the disinfector, shooting antibiotics at the nasty bacteria. Watch out for the "X factor." This sneaky enemy periodically appears, spraying antibodies at you! Joysticks optional. Minimum system, 16K RAM. 26-3085 . . . . 24.95

32

You'll Find Something for Every Member of the Family
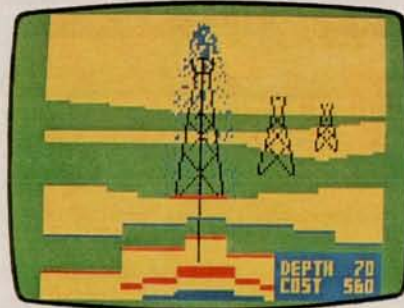
New! Bridge Tutor
A grand slam for beginning bridge players. One hundred different hands—each completely analyzed. Play South, East or West, or exchange with partner. Computer grades bidding and gives advice. During play, computer controls opponent's hands. Joysticks optional. 26-3158 . . . . . 34.95

New Low Price! Color Backgammon
Challenge the computer in this ancient, international favorite. Joysticks optional. Was $29.95 in RSC-7. 26-3059 . . . . 19.95

Color Cubes
Play that maddening cube puzzle on your computer! You can recall up to 255 moves. Save your position on tape with a cassette recorder (optional). 26-3075 . . . . 29.95

Bingo Math
Makes math fun! Solve problems to score a Bingo. Also includes Speed Math and Number Hunt. Joysticks required. 26-3150 . . . . 29.95

Color Computer Learning Lab
Hands-on, self-teaching course for Standard Color BASIC. With manual and eight cassette tapes. Cassette recorder required. 26-3153 . . . . 49.95

New! Wildcatting
One to four wheeler-dealers pick drilling sites. Watch out for dry holes! Hit a gusher and you're in the money—for awhile anyway. Production decreases, and taxes and drilling fees mount. Earn the highest profits in 10 rounds to win. Joysticks optional. Minimum system, 16K RAM. 26-3067 . . . . . 29.95

New! Pyramid
Explore the pyramid's unknown passages for treasures. Cassette recorder required. Minimum system, 16K RAM. 26-3310 . . . . 14.95

Art Gallery
Draw pictures using superb color graphics. Special features let you connect points, fill outlines and more. Save results on tape with a cassette recorder (optional). With 27 images (more available). Joysticks optional. 16K or 32K RAM recommended to get all features. 26-3061 . . . . 39.95

New! Raaka-Tu™
Venture into a temple of a forgotten civilization. Cassette recorder required. Minimum system, 16K RAM. 26-3311 . . . . 14.95

New! Micro Painter
An "electronic coloring book"! Just load a picture into the computer and "paint." Choose from three palettes, each with four colors. Save pictures on tape with cassette recorder (optional). With eight pictures (more available). Joysticks optional. Minimum system, 16K RAM. 26-3077 . . . . 39.95

New! Bedlam
Escape from the insane asylum! The way out changes every time. Cassette recorder required. Minimum system, 16K RAM. 26-3312 . . . . 14.95

Learning at Home with the Color Computer is Exciting!

Reading is Fun Series
Each package includes an illustrated reader, a read-along audio cassette tape, and a computer tape with spelling and vocabulary exercises based on words and sentences from the story. Exercises are repeatable—each session randomly selects a new sequence of problems from a large pool of possible words. The program gives immediate feedback after each problem, and a progress report is displayed after every 10 problems. Designed for grades 4-6. Cassette recorder required.

Dracula. 26-2550 . . . . 19.95
The Hound of the Baskervilles. 26-2551 . . 19.95
Moby Dick. 26-2552 . . . . 19.95
20,000 Leagues Under the Sea. 26-2553 . . 19.95

New! Vocabulary Tutor
A fun way to learn new words! Uses the new Color Tutor system which combines pictures and text on the screen with spoken information. Children match words with definitions and use words in sentences. Program includes reinforcement for correct responses and hints for wrong responses. Your child's score is reported at the end of each session. Designed for grades 3-5. Cassette recorder required.

Available 11/82

Vocabulary Tutor 1. 26-2568 . . 8.95
Vocabulary Tutor 2. 26-2569 . . 8.95

TRS-80 Color Computer Programs—The Problem Solvers

Color File Data Storage Program

Throw Away Your Card Files!

Say goodbye to cluttered drawers stuffed with addresses, warranties and personal records! Color File lets you quickly and easily store, retrieve and use various types of important data. Easily alphabetize, select, examine, print, change and save your information. Store standard files like names, inventories, medical histories, etc.—or create your own. Requires cassette recorder. 26-3103 . . . . 29.95

Spectaculator Planning Tool
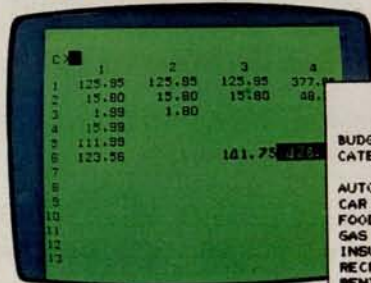
Calculates "What If?"

Do forecasting, and problem-solving with this "electronic spreadsheet!" Just enter numbers and formulas, and Spectaculator will calculate and display the results on command. Enter new figures and it updates every related number. Features up to 99 rows and columns. Add headings and labels, even "erase" worksheet and leave format intact. Recorder recommended. 26-3104 . . . . 39.95

Color SCRIPSIT™ Word Processing

Faster Than a Typewriter!

Put an end to erasing, strikeovers and messy correcting fluids! Type and edit your letters, themes and reports right on the screen. It's easy to insert, delete, move and duplicate words, sentences, even whole paragraphs. Includes advanced features, like text search and replace, too. Text can be saved on tape (recorder optional) or printed "correction-free" with optional printer (outputs upper and lower case). 26-3105 . . . . . . 39.95

Editor Assembler With ZBug

■ **Develop Assembly Language Applications On Your TRS-80 Color Computer**
■ **Designed for the Advanced Programmer**

If you want to bypass BASIC and move directly to the speed and efficiency of machine language programming, then this program is for you. With it, you can develop your own 6809 software programs or subroutines for storing on audio cassettes. Programming in machine language means more efficient memory use and faster execution for real time action. Features include trial assembly of object code and execution of your program in-memory before final assembly to tape, an editor that enables you to change your program and reassemble, and ZBug for quick and easy testing—all in one Program Pak. Manual discusses 6809E operational mnemonics, including Assembler Psuedo Operations, 6809 Instruction Set, and more. Minimum system, 16K RAM. 26-3250 . . . . 49.95

Audio Spectrum Analyzer
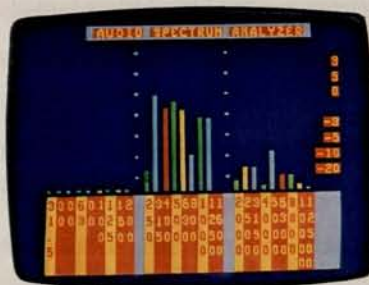
Use Your Color Computer to Get the Most Out of Your Stereo System

Here's the perfect way to test your stereo equipment for maximum performance! Color bar graphs show the power distribution over nine full octaves in ⅓ octave segments from 31.5 to 12,500 Hz. Or simply enjoy the colorful visual patterns that change along with the music. Requires cable (#26-1207), which attaches to cassette output of amplifier. 26-3156 . . . . 19.95

More Valuable Applications

Personal Finance. Set up a budget. Features 26 major expense categories: auto, gas, clothing, food, retirement, more. Review expenditures on a year-to-date or category basis. Check register and balancing, too. 26-3101 . . . . 39.95

Investment Analysis. Great for comparing various financial offerings. Calculates interest, loan payments, present values, retirement needs, stock and bond yields. 26-3102 Avail. 11/30/82 . . . . . . 39.95

Handyman. Embarking on a home improvement project? Just enter dimensions, specifications, etc. to learn how much lumber, insulation, paint, fertilizer, gravel, sand, etc. is required. Helps you compare prices,too. 26-3154 . . . . 29.95

New Low Price! Diagnostic ROM. Performs eleven separate test routines of your Color Computer and peripherals. Graphics and interactive routines make it fun, too. Was $29.95 in RSC-7. 26-3019 . . 19.95

Expand Your Storage Capacity With Fast-Access Disk Drives

1st Drive
599⁰⁰

2nd, 3rd, 4th Drives
399⁰⁰ Each

- **156,672 Characters of User Storage per Disk**
- **Quick and Easy Access to Programs and Data**
- **Add Up to Four Drives for a Total of Over 626,000 Characters of Storage**

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

Your First Drive—Color Disk #0 Kit

Get increased capacity to store and quickly access complete programs and large amounts of data. Installation is easy. You simply plug the Color Disk Drive controller Program Pak into the computer's cartridge port. The Color Disk Operating System is completely contained in the Program Pak, so the full 156K-byte disk capacity is available for on-line data storage. All Extended Color BASIC commands are retained, and easy-to-use commands unique to Color Disk BASIC have been added. System utilities included for backup, copy and format. Includes one 5¹/₄" double-density, 35-track floppy disk drive, direct-connecting cable, plug-in Program Pak cartridge, one blank 5¹/₄" diskette, reference manual and operator's instructions. 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 Color BASIC. U.L. listed. 26-3022 .... 599.00

2nd, 3rd and 4th Drives

Increase your storage capacity even further by adding up to three more drives. Requires Disk #0 and cable. U.L. listed.
26-3023 .... Each 399.00

Color Disk Drive Specifications

Drive: 5¹/₄" 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 per diskette.
Dimensions: 6¹/₈ × 3⁷/₁₆ × 11⁷/₈". *Weight:* 8.4 lbs.
Power Requirement: 120VAC, 60 Hz, 36 V-A.

New! Color SCRIPSIT™—Disk Edition

A more powerful version of our Color SCRIPSIT word processing program (see page 34). Get optional upper and lower case characters displayed on the screen as you're typing. You can even print one document while working on another. Print elongated characters with the TRS-80 Line Printer VII or VIII. Line Printer VIII also prints underlined characters. You can even load previously-prepared text that's on cassette tapes.
26-3255 .... 59.95

Quickly Store And Retrieve Text on Disk For Later Use

Key Summary:	
keys	Funct.
left arrow	Moves cursor 1 character as c
r. arrow	Moves cursor r up characters them.
up arrow	Moves cursor u
down arrow	Moves cursor d
Shift u.a.	Moves cursor t
Shift d.a.	Moves cursor t

New! Spectaculator—Disk Edition

The new disk version of our original Spectaculator program (see page 34) lets you do much larger planning, forecasting and problem-solving jobs. Great for engineering computations, financial projections, even family budgets. Added features include the ability to run totals of each column and the grand total. Quickly save your worksheets to disk for later revision and use. Add a printer and get a listing of any portion of your worksheet. 26-3256 .. 59.95

Never Use Pencil and Calculator Again!

The Pocket Computer Priced for Anyone With Problems to Solve On-the-Go!

NEW LOW PRICE!

149⁹⁵

Was $159.95
In RSC-7

Incredibly Easy to Use

- **Measures $1^{1}/_{16} \times 6^{7}/_{8} \times 2^{3}/_{4}$"** ■ **Weighs 6 Oz.**
- **Programmable in Easy-to-Learn BASIC**
- **Convenient Edit and Debug Modes for Program Development and Testing**
- **Typewriter-Format Alphabetic Keyboard**
- **24-Character Liquid Crystal Display**
- **15 Built-In Arithmetic Functions**
- **10-Digit Accuracy** ■ **1.9K Memory**
- **Retains Programs and Data With Power Off**
- **Large Library of Ready-to-Run Software**

The PC-1 is small enough to fit pocket or purse, yet it gives you *real computer power*—far beyond that of most programmable calculators! You can program your PC-1 to solve problems quickly, then store the data. Or you can use our ready-to-run software (requires interface and recorder). 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 seven characters). The 1424-step memory is automatically partitioned for program and data storage, and there's a 26-data-element memory and a 48-step reservable memory for frequently used functions. Automatic statement compaction squeezes every ounce of memory space. Features 2-digit exponents, multiple statements, arrays, and more. Automatic power-off saves battery life. Comes with batteries and manual. 26-3501 . . . . 149.95

Specifications

Microprocessors: Two 4-bit CMOS (one for arithmetic operation, one for BASIC interpreter and key-in). *Keyboard:* 57-key alphanumeric. *Display:* 24-character 7 × 5 dot-matrix LCD, plus 8 symbols (SHIFT, DEG, RAD, GRAD, DEF, RUN, PRO, RESERVE). Automatic scrolling, plus manual playback of lines 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, Catalog No. 23-1521. *Nominal Battery Life:* 300 hours.

Includes Slip Case

PC-1 Cassette Interface

Low-Cost Way to Real Versatility

29⁹⁵

Load our ready-to-run software or save your own programs and data. Includes cable. Requires recorder and 3 "AA" batteries. $^{7}/_{8} \times 8^{1}/_{4} \times 3^{1}/_{2}$". 26-3503 . . . . . . 29.95

Minisette®-9 Recorder

69⁹⁵

Ultra-slim! Auto-Level, Auto-Stop, tape counter, LED indicators. Requires four "AA" batteries. 14-812 . . . . 69.95
AC Adapter. U.L. listed. 273-1454 . . . . 5.95

Who Is the PC-1 For?

PC-1 is our smallest, most affordable pocket computer. It displays messages in plain English, has a full alphanumeric keyboard, and uses the popular BASIC programming language. Programs and data are stored on inexpensive audio cassette tapes. While it can solve more complex functions than a programmable calculator, it can be used very easily for calculator functions when desired. Ideal for engineers, business-people, students, scientists—anyone with problems to solve on the go!

Combination Printer/Cassette Interface Extends PC-1's Versatility

Turn Your Pocket Computer Into A Complete Computing System!

Get Fast Printouts of Your Programs and Data!

127⁹⁵

- Prints Highly-Legible Type on Regular Paper
- Long Program Lines Automatically "Wrap-Around" to the Next Line
- Uses an Inexpensive Long-Life Ribbon
- Loads and Stores Programs on Cassette Tape
- Comes Complete With Batteries and Charger
- Fits Easily in a Corner of Your Briefcase

Shown with PC-1 (not included)

Get the most from your PC-1 in two ways! Obtain hard copy printouts, plus save programs on ordinary cassette tapes (requires recorder). Just slip your PC-1 into the Printer/Cassette Interface, and you're set. It's so compact, you can take it with you wherever you go—travelling, attending meetings, in the field—anywhere you need on the spot data or printing. Dot-matrix impact printer prints 16 characters per line at one line per second, with "wrap-around." Built-in interface lets you connect a recorder for loading and storing programs and data on inexpensive cassette tapes. Features paper advance, print on/off, and remote (for "keying" recorder remote jack), "low

battery" indicator, and power on/off. Includes rechargeable batteries, U.L. listed AC adapter/charger, paper, ribbon cartridge, cassette cable and manual. 26-3505 . . . . 127.95

Specifications

Printer: 5 × 7 dot-matrix impact printing. *Printing Capacity:* 16 columns per line with automatic wrap-around. *Print (and Paper Advance) Speed:* Approximately one line per second. *Paper:* $1^{25}/_{32}$" wide, $^{31}/_{32}$" diameter (maximum). *Power Source:* Built-in rechargeable nickel-cadmium battery. Charging time approx. 15 hours. *Battery Capacity:* Approx. 8,000 printed lines. *Power Consumption:* 4.8V, 1.84W (DC) *Dimensions:* $1^{3}/_{4} \times 11^{1}/_{8} \times 3^{3}/_{4}$" (with PC-1 installed). *Weight:* 0.90 pounds.

Extra Printer Paper
For PC-1 Printer/Cassette Interface. $1^{3}/_{4}$" wide. 26-3506 . . . . Pkg. of 6/1.75

Replacement Printer Ribbon
Always keep an extra ribbon handy. Installs easily. 26-3507 . . . . 2.75

Pocket Computer Carrying Case
Holds extra paper, ribbon and reference card, too. Padded vinyl. 26-3508 . . . . 14.95

The PC-1 Pocket Computer Library of Pre-Recorded Ready-to-Run Software

Personal Finance. Helps manage your household finances. Includes budget, checkbook, interest/annuities, metric converter. 26-3518 . . . . 19.95

Business Finance. Loans, annuities, bond price, yield, compound interest, depreciation, days and dates, rate of return, much more. 26-3517 . . . . 19.95

Business Statistics. Ideal for marketing and sales decisions, forecasting, more. 26-3516 . . . . 19.95

Statistical Analysis. Includes correlation and regression, ANOVA, Chi-square, distributions (normal, t, F, χ^2), and multiple linear regression. 26-3522 . . . . 24.95

Real Estate. For investor and agent. Includes annuities, compound interest, more. 26-3510 . . . . 24.95

Civil Engineering. Valuable "on-site" helper. Beam computations, stress, vectors, more. 26-3511 . . . . 24.95

Surveying. Convert field measure to property boundaries. Leveling, volume, more. 26-3512 . . . . 29.95

Aviation. Complete flight management system. Calculates altitude, airspeed, headings, more. 26-3513 . . . . 24.95

Electrical Engineering I. Low and high pass/active and passive filter design, complex impedance calculator, LF transistor, more. 26-3520 . . . . 24.95

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

Engineering Math II. Performs common 3-D vector operations, complex numbers, more. 26-3526 . . . . 14.95

Engineering Math III. Solves simultaneous equations, polynomials, simple calculus. 26-3527 . . . . 10.95

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

Math Drill. For children in primary grades. Four levels of difficulty. 26-3514 . . . . 14.95

Games I. NIM for two, Space Ship Landing, Treasure Hunt, Craps, more. 26-3515 . . . . 14.95

Games II. More fun! Missile, Blackjack, Baccarat, Aceyducey, Numguess, more. 26-3523 . . . . 14.95

Calendars. Programs to solve date-related problems. Day of week, days between dates, calendar printout, Julian date, more. 26-3529 . . . . 19.95

Horse Race Analyst. Helps predict winner based on past performance. 26-3530 . . . . 19.95

Banners. Create big, eye-catching messages and signs. Requires Printer/Cassette Interface. 26-3531 . . . . 9.95

Golf Scoring. Helps an amateur monitor play and compute USGA handicap. 26-3532 . . . . 14.95

The Most Powerful Pocket Computer Ever Gives You Big Computer Features

Its Power and Speed Rivals Many Desktop Computers!

279⁹⁵

- Measures 1¹/₁₆ × 7¹¹/₁₆ × 3³/₈″ ■ Weighs 16 Oz.
- Easily Programmable in Extended BASIC
- 2640-Character Expandable Internal Memory
- Fully Addressable 7 × 156 Dot-Matrix LCD for Graphics and Upper/Lower Case Characters
- Built-In Real-Time Quartz Clock
- 60-Pin I/O Printer-Interface Connector
- Retains Programs and Data with Power Off

The TRS-80® PC-2 Pocket Computer is the ultimate portable computer! It puts powerful computing features into the hands of engineers, businessmen, students, scientists—anyone with problems to solve on-the-go. Ready-to-run software loads from audio cassettes, or program it yourself.

Our new Extended Pocket BASIC language features 42 statements, with 34 built-in functions. It gives you two-dimension arrays, variable length character strings with extensive string handling, formatted printing and more. And it's upward compatible with Radio Shack's original Pocket BASIC, so many PC-1 programs can be keyed-in and run on the PC-2 The 2640-byte memory retains programs and data even with power off. And you can expand the memory capacity with a plug-in 4K or 8K RAM Module (see at right). The 26-character Liquid Crystal Display is fully dot-programmable for graphics over its complete 7 × 156 dot matrix. The 65-key keyboard features a typewriter layout and 10-key datapad with 18 programmable key functions and 18 user-definable label keys. The built-in real-time clock is accessible from BASIC or the keyboard and provides month, day, hour, minute and second. There's even a programmable variable tone beeper. Requires 4 "AA" batteries. 26-3601 . . . . 279.95

Specifications

Microprocessor: 8-bit custom CMOS, 1.3 MHz internal cycle time. *Keyboard:* 65 alphanumeric keys, including 6 programmable function keys for each of 3 Reserve modes, 18 "soft-keys" and 10 pre-programmed command keys. *Display:* 26-character alphanumeric LCD. Automatic scrolling plus manual playback of lines longer than 26 characters. 80-character input buffer. *Character Style:* Full 7 × 5 dot matrix ASCII upper and lower case set. *Graphics:* Fully-addressable 7 × 156 dot-matrix LCD graphics permits generation of special characters. *Memory:* 16K bytes of system ROM, 1850 bytes BASIC program and data RAM, 600 bytes fixed data memory and 190 bytes reserve memory. *Memory Expansion:* Single plug-in slot accepts module with up to 16K of RAM, ROM or ROM/RAM combination. *String Handling Ability:* LEFT$, MID$, RIGHT$, LEN, VAL, CHR$ and STR$. Strings dimensionable from 1 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.

Includes Slip Case

Expand Your PC-2's Internal Memory

Need more memory for larger, more complex programs? Just plug a memory module into the recessed port on the back of your PC-2 for 4K or 8K of additional RAM. Individual modules are not expandable.

4K Module. 26-3615 . . . . 69.95
8K Module. 26-3616 . . . . 139.95

Who is the PC-2 for?

Engineers, scientists, accountants, architects, computer programmers, executives, mathematicians—anyone who needs big computer features in the field, on a plane or otherwise "on the go" needs the power of the PC-2. It's also ideal for advanced technology or science students who are ready to move up from ordinary calculators to a real computer. If you're on the move, and don't have time to wait hours or days for answers to your questions, then the PC-2 is for you!
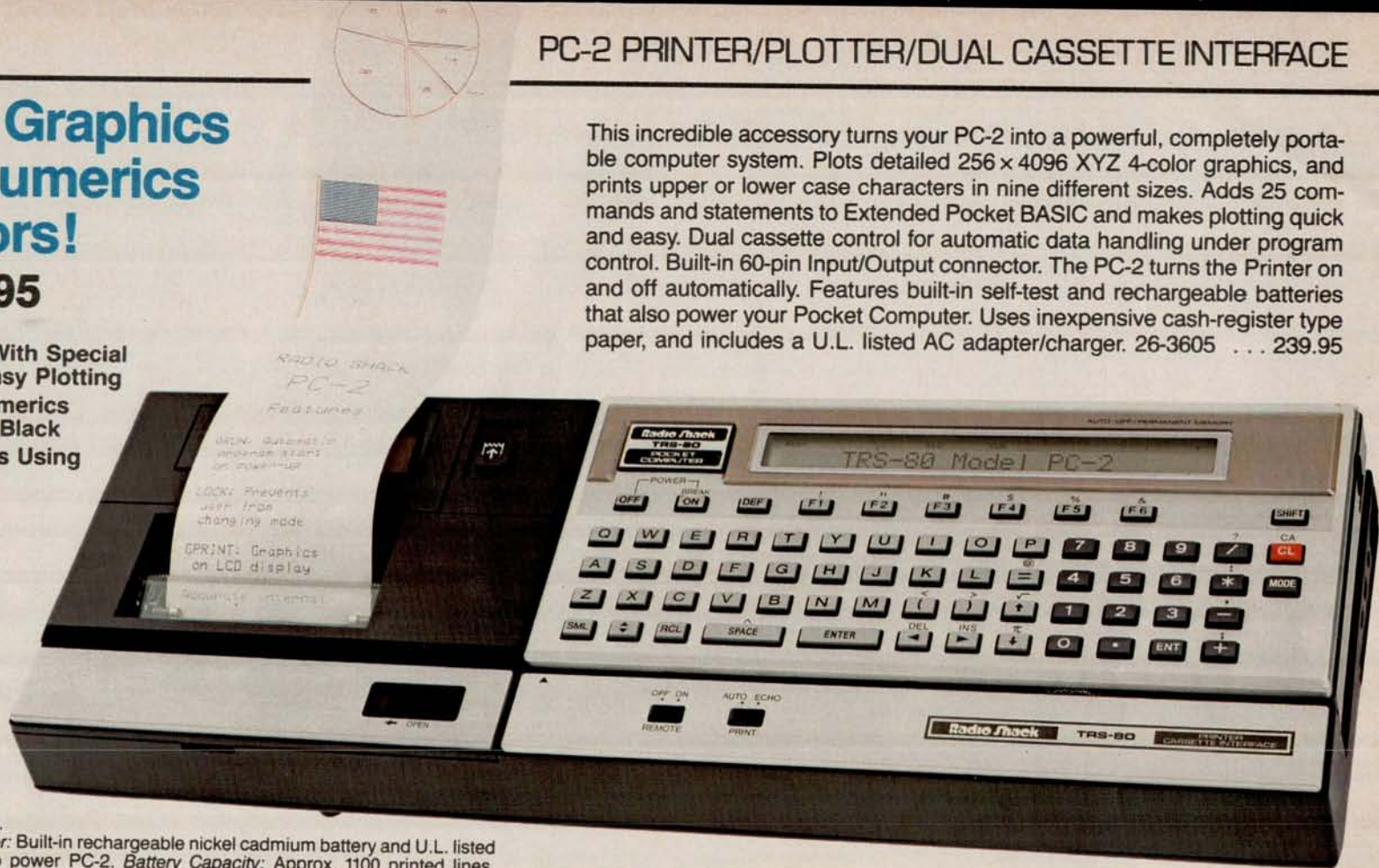
Get Superb Graphics And Alphanumerics In Four Colors!

A "Must" for Your PC-2 **239⁹⁵**

- Full XYZ-Axis Graphics With Special BASIC Statements for Easy Plotting
- Prints Graphics/Alphanumerics In Red, Blue, Green and Black
- Store and Load Programs Using One or Two Recorders—Makes Automatic Data Logging and Program Overlays Easy
- Upper and Lower Case Characters in 9 Sizes
- Built-In 60-Pin I/O Connector

Specifications. *Alphanumeric Printing:* Upper and lower case in four colors. Nine column widths (4 to 36 characters per line) with wrap-around. *Print Speed:* 11 characters per sec., average. *Graphics/Plotter Printing:* 256 × 4096 color graphics. Controlled by BASIC. 3-dimension axes. *Paper:* 2¹/₄". *Power:* Built-in rechargeable nickel cadmium battery and U.L. listed AC Adapter/Charger—both will also power PC-2. *Battery Capacity:* Approx. 1100 printed lines. Charging time 15 hours. *Dimensions:* 2¹/₁₆ × 12¹⁵/₁₆ × 4¹/₂". *Weight:* 28 oz.

This incredible accessory turns your PC-2 into a powerful, completely portable computer system. Plots detailed 256 × 4096 XYZ 4-color graphics, and prints upper or lower case characters in nine different sizes. Adds 25 commands and statements to Extended Pocket BASIC and makes plotting quick and easy. Dual cassette control for automatic data handling under program control. Built-in 60-pin Input/Output connector. The PC-2 turns the Printer on and off automatically. Features built-in self-test and rechargeable batteries that also power your Pocket Computer. Uses inexpensive cash-register type paper, and includes a U.L. listed AC adapter/charger. 26-3605 . . . 239.95

Shown with PC-2 (not included)

New! Ready-to-Run PC-2 Pocket Computer Software

Personal Finance. Budget management, electronic checkbook, interest and annuities, metric/English converter, and more. 26-3700 . . . . 19.95

Business Finance. Loans, annuities, bond prices, compound interest, yield, depreciation, days and dates, and more. 26-3703 . . . . 19.95

PC-2 Games Pak. Sound Off, Hangman, Battleship, Football, Moonlander, Blackjack, Twister, Tic-Tac-Toe, Scratchpad. 26-3702 . . . . 14.95

Invasion Force. Explore unknown planets. Destroy enemy aliens before they destroy you. (4K RAM module required.) 26-3705 . . . . 9.95

Handy Accessories for Your PC-2 Printer/Plotter

Padded Vinyl Carrying Case
Holds Printer (with PC-2 installed) and AC adapter/charger. Keeps pens, paper, etc. organized. 26-3608 . . . . 29.95

PC-2 Replacement Ballpoint Mini-Pens
Replacement Pens. Three black. 26-1480 . . . . 2.95
Replacement Pens. One each: red, blue, green. 26-1481 . . . . 2.95

PC-2 Printer Paper
Cash register-type paper for PC-2 printer/plotter. 2¹/₄" wide. 26-3606 . . . . 6 Rolls/2.49

Double-Density Disk Kit for TRS-80 Model I

149⁹⁵ Installation is Available Through Radio Shack

- **Increases the Disk Storage of Your Model I**
- **Adds Many Advanced Features of Model III TRSDOS**
- **Use With 35 or 40-Track Drive Systems**

TRS-80 Model I Double-Density Disk Kit. Expand the disk capacity of your Model I and add many of the advanced features of Model III TRSDOS. With 35-track drives, disk capacity per diskette is increased to 152,000 characters, and with 40-track drives to a full 184,000 characters. In addition to new TRSDOS features (see table below), we've also added most of Model III's Disk BASIC features, including a series of CMD functions that sort strings, cross-reference string variables, delete spaces and much more. Also includes repeating keys. Your existing Model I software can still be used "as is" in single-density mode, but modification of some existing software may be required. Radio Shack applications software is not available or supported for double-density operation. Kit includes manual, reference card, adapter and Double-Density TRSDOS operating system diskette. Price does not include required installation. 26-1143 . . . . 149.95

New! LDOS™ Operating System

An advanced operating system. Adds data transportability—read LDOS diskettes on a Model I or III. Includes a Job Control Language to control an unattended computer, RS-232 driver, terminal utility, keyboard type-ahead, printer spooling to memory and/or disk, a printer output formatting program, more! With extensive operating manual. Radio Shack software is supported under LDOS on a limited basis (documented with purchase). Avail. 10/31/82.
Model I Version. Supports double-density disk kit (26-1143), too! 26-2213 . . . . 129.00
Model III Version. 26-2214 . . . . 129.00

Remote Controller
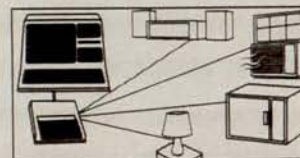
Control Electrical Appliances in Your Home From Your CPU—Uses Existing AC Wiring

Plug n' Power™ Remote Controller. Control up to 256 lights and appliances with your TRS-80 Model I, III or Color Computer. Activate security lights, start dinner, turn on the radio and much more—all from one central location! Nothing to install—just plug appliances into modules (below), then into AC outlet and you're all set. Includes software. U.L. listed. 26-1182 . . . . 39.95

Advanced Features Available With the Model I Double-Density Disk Kit

COMMANDS	DESCRIPTION	COMMANDS	DESCRIPTION
BLINK	Turns blinking cursor ON/OFF	FREE	Includes Space Map
BUILD/DO	Automatic Command Files	HELP	Syntax of Commands
CLEAR	Clears User Memory	PATCH	Alter Disk Files
CLS	Clears Screen	PURGE	Delete Multiple Files
CONFIG	Specify Drive Types	RELO	Alter Program Load Address
CREATE	Pre-Allocated Files	SETCOM	Set RS-232C Values
DUAL	Output to Video and Printer	SPOOL	In-Memory Print Spooler
ERASE	For File Confidentiality	TAPE	Tape/Disk/RAM Transfer
ERROR	Descriptive Error Messages	UNKILL	Restore Killed File
FILFIX	Modifies Disk Files	WP	Write Protect a Disk

Upgrade Your TRS-80 Model I With Memory Expansions and More!

It's easy to add to your Model I—just bring your keyboard to any participating Radio Shack and we'll take care of the rest! Prices are for parts only—required installation is extra.

New Low Price! 16K RAM and Keypad. Was $180.00 in RSC-7. 26-1101 . . . . 130.00

Level I to II ROM Upgrade. 26-1120 . . . . 150.00

Lower Case Kit. Add lower case characters 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

Keypad Alone. 26-1103 . . . . 79.00

RS-232C Interface Board

Mounts inside Expansion Interface and lets you connect modems, serial line printers and more. Includes manual, cable and cassette program for using your TRS-80 as a terminal.
26-1145 . . . . 99.00

RS-232C Communications Software. Allows communication between a pair of Model I and/or Model III computers over phone lines. For 16K Level II, Model III BASIC or 32K 1-Disk systems.
26-1149 . . . . 39.95

Remote Controller Modules

All Are U.L. Listed

Ⓐ **Appliance Module.** 61-2681 . . . . 16.99
Ⓑ **Lamp Dimmer Module.** 61-2682 . . . . 16.99
Ⓒ **Universal Appliance Module (3-Prong).** 61-2684 . . . . 17.99
Ⓓ **Wall Switch Module.** 61-2683 . . . . 17.99
Ⓔ **Wall Outlet Module.** 61-2685 . . . . 21.95

Retail prices shown in this catalog may vary at individual stores and dealers.

Informative "How To" Books from Our Reference Library

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

BASIC Computer Language. Self-paced format quickly gets you into programming. For Level I BASIC. 232 pages. 62-2016 . . . . 5.95

Level II BASIC. Informative self-study course. 351 pages. 62-2061 . . . . 9.95

Programming Techniques for Level II BASIC. Supplements #62-2061 above. 142 pages. 62-2062 . . . . . 4.95

Program in Style. Applications, ideas for TRS-80 Level II. 343 pages. 62-2067 . . . . 10.95

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

Home Computer Programs. Packed with household helpmates. 330 pages. 62-2069 . . . . 7.95

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

Advanced Level II BASIC. Advanced capabilities of Model I and III. 250 pages. 62-2072 . . . . 9.95

TRS-80 Pocket Computer Programs. 50 ready-to-run programs in Pocket BASIC. Games, home programs, more. 80 pages. 62-2086 . . . . 1.95

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

BASIC Faster and Better. Advanced BASIC programming. 288 pages. 62-1002 . . . . 29.95

NEW! Color Computer Graphics. Extensive guide. 256 pages. 62-2076 . . . . 5.95

NEW! Graphics for Model I/III. Explains how to control graphics in easy-to-understand language. 288 pages. 62-2087 . . . . 10.95

NEW! Problem-Solving on the TRS-80 Pocket Computer. Self-paced format. 264 pages.
62-2312 . . . . 9.95

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

NEW! BASIC Conversions Handbook for TRS-80, Apple®, and PET® Users. Invaluable guide to converting BASIC programs between these three computers. 80 pages. 62-2088 . . . . 5.95

Introduction to TRS-80 Level II BASIC. 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

TRS-80 Model II Owner's Manual. A comprehensive, illustrated manual (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 power supplies. 26-4921 . . . . 29.95

NEW! Model 16 Manual Set.
26-6040 . . . . Set of 3 Books/75.00

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

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. 259 pages. 26-2112 . . . . 5.95

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 Volume I. The first 20 issues now bound in one handy book. A real gold mine of information! 122 pages. 26-2115 . . . . 4.95

NEW! TRS-80 Microcomputer Newsletter Reprints. January thru December 1981 issues bound together in one book, with lots of useful programs. 26-2240 . . 9.95

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

Going Ahead With Extended Color BASIC. Describes features of Extended Color BASIC, including 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

41

Your Job Goes Smoother With These Computer Workstations

Our Versatile Model III System Desk and Disk Bay Make Great Additions to Your TRS-80 System

System Desk and Printer Stand for Model II or 16

A Model III System Desk. Contemporary styling is perfect for office use. Plenty of room for computer and printer. Unassembled. 27 × 48 × 27".
26-1305 . . . . 179.00

B Model III Disk Bay. Attaches underneath Model III System Desk (above). Holds two external disk drives. Easy installation.
26-1306 . . . . 29.00

Universal Printer Stand and Casters

C This sturdy, attractive stand is a perfect match for the System Desk. Includes a slotted top for bottom-feed printers. Easy to assemble. 27 × 23 1/2 × 19". 26-1308 . . . . 99.00

D NEW! Locking Casters. Install easily to base of printer stand for mobility and convenience. Fits both 26-1308 (above) and 26-4302 (right).
26-1319 . . . . Set of 4/19.95

E System Desk. Our finest! Large storage drawer mounts on the right or left. Low mounting allows installation of Disk Expansion Unit. Heavy-duty construction with wiring cutouts in top. Easy assembly. 28 × 48 × 29".
26-4301 . . 369.00

F Printer Stand. Matches modern styling of System Desk. Convenient slotted top allows use with virtually all printers, and also permits bottom paper feed. 27 × 23 1/2 × 19".
26-4302 . . 149.00

Inset Shows Alternate Setup With Disk Bay
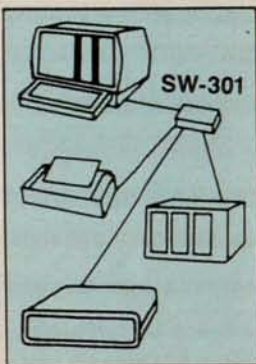
Power Control Accessories Add Convenience

Power Line Filter

Limits AC power line interference to Model I and Color Computer. Switch controls eight outlets. U.L. listed. 26-1451 . . . . 49.00

Automatic Control Power Strip

SW-301. Activates up to five peripherals when you turn on your Model II, III or 16. U.L. listed.
26-1429 . . . . 69.95

SW-301

Low-Priced Space-Saver Desk for Your TRS-80

- **Set Up Your Work Area Almost Anywhere**
- **Perfect for Home or School**

Versatile and economical—ideal for those just getting started in computing. Easily holds the Color Computer, with the shelf used to support your video monitor, as in Fig. A. With the shelf removed, there's plenty of room for your Model III, as in Fig. B. Unassembled. 27 × 32 3/4 × 23 3/4".
26-1307 . . . . 65.00

Computer systems not included

TRS-80 Data Communications Modems

NEW
149⁹⁵
**Acoustic Coupler AC-3**

149⁰⁰
Direct-Connect Modem I

249⁰⁰
Programmable Direct-Connect Modem II

What is a Modem and Why Do You Need One?

A modem (short for "modulator-demodulator") is an electronic translator that converts the electronic impulses that make up computer information into tones that can be sent over telephone lines. It likewise translates incoming messages so your computer can process them. Modems make it possible to access electronic information services like CompuServe® and Dow Jones News/Retrieval®, and to communicate with other computers by sending and receiving data and programs.
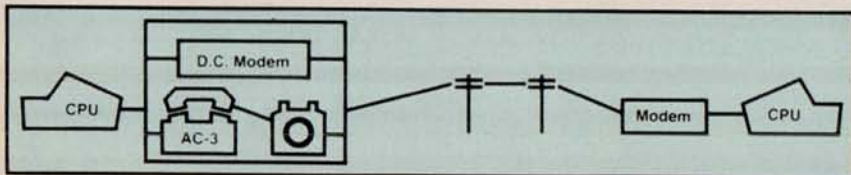
Choose the Radio Shack Modem That's Best for You

All are compatible with any RS-232C-equipped TRS-80. 300 baud, full duplex, originate and answer. Direct-connect modems have modular phone plug. FCC registered. U.L. listed 120VAC power module.

Acoustic Coupler AC-3. Ideal for travelers! Just dial the desired number and place handset on interface. Half duplex also. Sensitivity: – 42 dBm. $2^3/8 \times 4^3/4 \times 10^1/4$". 26-1174. Avail. 11/30/82 . . . . 149.95

Direct-Connect Modem I. Plugs directly into phone outlet—ideal for home or office. Sensitivity: – 43dBm (orig.), – 48 dBm (ans.). DB25 and 4-pin DIN connectors. $2 \times 6^1/2 \times 7^1/2$". 26-1172 . . . . 149.00

Auto-Answer, Auto-Dial D.C. Modem II. Fully programmable! Automatically dials and answers phone, receives and transmits data—even hangs up the phone. Remote and local test modes. Pulse or tone dial. Sensitivity: – 40 dBm. $2 \times 6^1/2 \times 7^1/2$". 26-1173 . . . . 249.00

NOTE: Direct-connect modems are not for multi-line use without optional-extra controller.

Our Versatile "No Compromise" TRS-80 Video Data Terminal

699⁰⁰

Emulates Four Popular Terminals Through Keyboard-Selectable Configuration —No DIP Switches

- **Non-Volatile Memory Retains Configurations Even When Power is Off**
- **Ergonomic Designed Keyboard is Easy to Use, Easy on the Fingers**
- **Full 80 × 24 Modifiable Video Display With Dual-Speed Cursor**
- **Keyboard-Selectable Data Transfer Rates from 75 to 19,200 Baud**
- **Two Printer Interfaces—Parallel and RS-232C Serial**

The DT-1 is ideally suited for communications with advanced systems like our Multi-User Model 16 (see page 5) or other host computers. With a low-cost Radio Shack modem, it can also access time-sharing information networks. It's completely code compatible with the TeleVideo® 910, Lear Siegler® ADM-5, ADDS 25 and Hazeltine® 1410 terminals. You can change the configuration from the keyboard at any time. The DT-1's revolutionary EEPROM (Electrically Erasable Programmable Read-Only Memory) retains the protocol even when the power is off—and without battery back up! Full 80 × 24 display shows upper and lower case characters. Special single-character symbols are used to display control characters. A local monitor mode lets you enable printer ports and position the cursor using local control and escape modes. Control key termination codes are user programmable. Features repeating keys, electronic bell, and more. U.L. listed. 26-6050 . . . . 699.00

Specifications

Data Transfer: Ten keyboard selectable rates: 75, 110, 150, 300, 600, 1200, 2400, 4800, 9600, 19,200 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. *Dimensions:* $12^1/2 \times 18^7/8 \times 21^1/2$". *Power:* 120VAC, 60 Hz, 30 Watts.

Now There's a TRS-80 You Can Take With You on Business Trips!

New! Radio Shack's PT-210 Portable Data Terminal Lets You Access Your Office Computer and Information Networks Using Any Telephone

- Built-In Acoustic Coupler—Just Insert Telephone Handset
- Whisper-Quiet Thermal Printer With 5 × 7 Dot-Matrix Characters
- Full-Size ASCII Typewriter Keyboard With 67 Characters And Switch-Selectable Digital Keypad
- Totally Enclosed in Attache-Type Case—Weighs Only 15 lbs

Now you can access a computer from anywhere in the country by phone with Radio Shack's new PT-210 Portable Terminal. It couldn't be easier to use. Just plug in the detachable AC line cord, dial a phone number and slip the telephone handset into the PT-210's built-in acoustic coupler. You're now ready to transmit and receive data from virtually any modem-equipped computer— micro, mini, or mainframe! You can also prepare reports on the spot, thanks to the built-in thermal printer. It's so quiet, you can use it during presentations to verify stock numbers, confirm inventory levels, even enter orders directly from the field. The keyboard has the feel and layout of a standard typewriter—and thirteen keys arranged in a calculator format become digits and signs at the flip of a switch for fast numeric entry. U.L. listed. FCC registered. 76-1001 . . . . 995.00

995⁰⁰

Telephone handset not included

Thermal Paper. 8¹/₂" wide, 100-ft. roll. 76-1003 . . . 6 rolls/24.95

Specifications: *Communication Method:* Asynchronous, serial by bit, serial by character. *Parity:* Odd, even, none. *Speed:* Switch selectable; 110 baud—11-bit/character; 300 baud—10-bit/character. *Mode:* Full or half-duplex. *Code:* ASCII. *Line Status:* On line/local. *Line Buffer:* 48 characters. *Compatibility:* Bell 103A or equivalent. *Mode:* Originate only. *Receive Sensitivity:* – 40 dBm. *Keyboard:* Standard ASCII with 67 printable characters, 99 codes, 32 control characters. *Printer:* Non-impact thermal, 35-element (5 × 7) matrix, contrast adjustable. *Paper:* Thermographic, 8¹/₂" by 100' roll. *Line Length:* 8" (80 characters per line), 6 lines per inch. *Printing Rate:* 50 characters per second. *Indicator Lamps:* Carrier detect, character error, power on. *Bell:* 250 ms, audible tone. *Dimensions:* 5 × 15¹/₂ × 14¹/₂". *Weight:* 15 lbs., including paper. *Power:* 120VAC, 60 Hz, 75 Watts.

Get the Most from Your PT-210 With These Useful Accessories

Convert Your PT-210 Into a Dumb Terminal/Printer

69⁹⁵ RS-232C Interface Module Allows Direct Connection To Host Computer

Enhance the utility of your PT-210 Portable Data Terminal with this low-cost, easy-to-install printed circuit board. It lets you connect your PT-210 directly to your office computer with a standard RS-232C cable—no modem is required. RS-232C cable not included (see pg. 26). 76-1002 . . . . 69.95

Deluxe PT-210 Travel Case

24⁹⁵

Protective padded vinyl case includes handy inside pockets for extra thermal paper and notes. 76-1010 . . 24.95

44

TRS-80 Videotex Brings You a World of Information—Instantly

CompuServe®—Up-to-the-Minute News And Innovative Information Services

- ■ "Electronic" Newspapers
- ■ AP Wire Service
- ■ Financial Information
- ■ Electronic Mail
- ■ TRS-80 News Bulletin

Your TRS-80 Videotex Terminal or software package puts you "on-line" to this exciting information service immediately—and your first hour is FREE! Through our exclusive agreement with CompuServe you can access a continually growing library of information.

All the News—While It's Fresh

The CompuServe Information Service offers you the latest in local, national and international news, weather and sports from *The New York Times, Washington Post, Los Angeles Times, St. Louis Post-Dispatch, San Francisco Chronicle* and *San Francisco Examiner, Minneapolis Star* and *Tribune, Atlanta Journal Constitution, Norfolk Virginian-Pilot* and *Star-Ledger, Columbus Dispatch* and *Middlesex* (Mass.) *Daily News*—plus the Associated Press newswire. Now you can know what's happening at any time without waiting for a scheduled newscast or for your newspaper to be delivered.

Enjoy a Variety of Services

Access historical information and updates on 32,000 stocks, bonds and securities. Take advantage of home and educational reference services. Just for fun, play exciting computer games. Radio Shack's own Bulletin is continually updated with news and information of interest to the TRS-80 owner. You can communicate with other subscribers nationwide via an "electronic mail" service. And you can even get 128K of disk storage and 16K of RAM workspace for your own use. All this is available at CompuServe's low hourly rate. (Additional charges for some services.)

Low-Cost TRS-80 Videotex Packages for Your Computer

TRS-80 Videotex software allows access to major information data bases 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 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 software for Apple II and Apple II+. 26-2223 .... 29.95
Universal Sign-Up Kit. No software included. Intended for use with your software or terminal. 26-2224 .... 19.95

TRS-80 Videotex Terminal For 2-Way Information Retrieval

NEW LOW PRICE!
399⁰⁰
Was $499.00 in RSC-7

TV not included

Works with your telephone and TV, and allows you to access information networks like Dow Jones and CompuServe. Software and telephone interface are built-in. 53-key alphanumeric keyboard. 16K memory stores up to 32 "pages" of information for later viewing. One free hour on both networks included. U.L. listed. 26-5001 .... 399.00

Dow Jones News/Retrieval® Current Stock Quotations and More!

- ■ Business and Industrial News
- ■ Detailed Corporate Information
- ■ Historical Financial Data
- ■ Company Profiles

TRS-80 Videotex gives you a "direct line" to Wall Street ... and your first hour is FREE!

Get Quotes in Your Home or Office

Dow Jones brings you current market quotes (subject only to the 15-minute delay required by the exchanges) on common and preferred stocks and warrants, corporate and foreign bonds, mutual funds and options traded on the New York, Pacific, American, Midwest and Over-The-Counter stock exchanges—plus selected U.S. Treasury issues.

Keep Up With Current Financial Events

You'll have access to extensive general and specific news on more than 6000 companies and 50 industries filed in more than 80 categories—plus information from *The Wall Street Journal, Barron's* and the Dow Jones News Service. Search through headlines and retrieve stories from 90 seconds to 90 days old. Media General Financial Services data base gives detailed corporate information on the revenue, earnings, dividends, ratios, shareholdings, etc. of more than 3200 companies. There's also a weekly economic survey of economists and money market dealers, and transcripts from the popular TV program *Wall Street Week.*

Complete Historical Information

Utilize the text search service for over 125,000 business articles dating back to June 1979 by category or keyword. Obtain market quotations for the last trading month, with monthly summaries through 1979 and quarterly through 1978. Profiles and 10K extracts on over 6000 companies are available, too.

This "All-in-One" Personal Computer is Affordable, Versatile and Expandable!

699⁰⁰
4K Level I BASIC

999⁰⁰
16K Model III BASIC

- **Completely Self-Contained Desktop Unit**
- **Easy Internal Expansion for Personal And Professional Use**
- **Built-In High-Resolution 12" Video Monitor Displays 16 Lines of 64 Characters**
- **65-Key Typewriter-Style Keyboard With 12-Key Datapad for Numeric Entry**
- **Huge Library of Ready-to-Run Software**
- **Built-In Parallel Printer Interface**
- **Learn BASIC Programming With the Excellent Model III Beginner's Manual**

Get Started in Computing with Model III

Model III is perfect for beginners and pros alike— easy to use and hard to outgrow. More importantly, many features that you'd expect to pay extra for are standard on Model III. And when you're ready, Model III can easily and economically expand to meet your changing requirements.

Huge Software Library

You can put a Model III to work or play with a wide selection of ready-to-run programs. Set up a household budget, track your stock investments, create a home inventory or recipe file, computerize your club's mailing list, teach your kids, play exciting computer games, and much more! Model III can analyze statistics and even become an incredibly low-cost word processor. The possibilities are almost limitless. All you need is a cassette recorder and connecting cable and you're set.

Expands Easily

Model III can expand internally with up to 48K of memory, one or two 5¼" mini-disk drives, and an RS-232C serial interface board. You can also add accessories like a printer, plotter, digitizer, telephone interface and external floppy disk or hard disk drives.

4K Level I. 26-1061 . . . . 699.00

16K Model III BASIC. 26-1062 . . . . 999.00

Specifications. *Microprocessor:* Advanced Z-80 8-bit. *Clock Speed:* 2.03 MHz. *Memory:* 4K ROM (Level I) or 14K ROM (Model III BASIC) with 4K or 16K RAM, expandable to 48K RAM. *Keyboard:* 65-key "typewriter" style with 12-key datapad. *Video Display:* Memory mapped with high-resolution 12" monitor. Includes 96 text, 64 graphics and 96 "special" characters. Screen format—64 characters by 16 lines. (Model III BASIC also provides 32 characters by 16 lines display, and upper and lower case). *Input/Output:* Computer-controlled cassette interface—standard 250 baud for Level I, 500/1500 baud selectable under Model III BASIC. Parallel printer interface and buffered Model III bus. Provisions for adding disk drives and RS-232C interface. *Dimensions:* 12½ × 18⅞ × 21½". *Power:* Integral power supply, 105-130VAC, 60 Hz. U.L. listed.

New! CCR-81 Computer Recorder

Designed for The TRS-80 **59⁹⁵**

Ideal for loading and recording programs and data on cassettes. Includes cable. U.L. listed AC operation or 4 "C" batteries (not incl.). 26-1208 . . . . 59.95

$$C_8H_4(CH_3)_2 \quad AC^2 \quad H^2O + Ph^3(H^2$$

$$\frac{2x}{2y}{4xy}$$

Who is the Model III for?

The Model III is ideal for anyone who wants an excellent "starter" computer that can later be expanded for advanced programming, business or professional use. With its power, expandability and vast library of available software—and affordable price—the Model III is perfect for beginning computer enthusiasts. It's also an outstanding choice for professional people who may wish to expand it later for business use, and for school systems for use in classroom networks.

Expansion covers simulate disk drives.
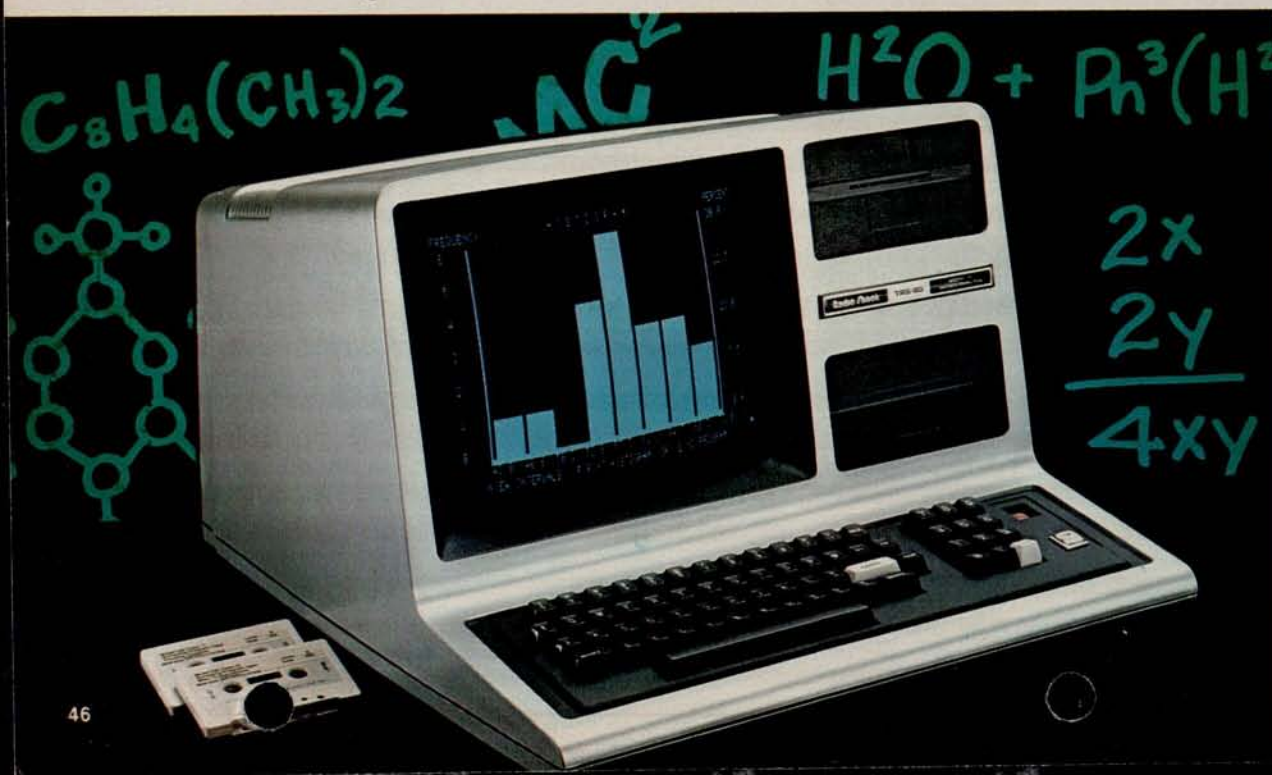
Home and Professional Systems

"Starter" System

1347⁹⁰ **Full Featured, Yet Very Affordable**

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 16K Model III (26-1062) with our new CGP-115 Color Graphics Printer (26-1192) and cable (26-1401). The CGP-115 gives you sharp-looking graphs, charts and diagrams in six vivid colors— plus it draws alphanumerics as well. We've also included the CCR-81 Cassette Recorder (26-1208) to let you store and retrieve your own programs, or load our ready-to-run software. The system provides everything you need to get started in the exciting world of computers— including our Model III learner's manual— and can be easily expanded as your skill and needs grow.

Personal Business System

1896⁹⁵ **Ideal for Home and Business Uses**

For business applications, the 16K Model III (26-1062) with powerful Model III BASIC is the way to go. You can load our ready-to-run software with the CCR-81 Cassette Recorder (26-1208). The DMP-200 Dot Matrix Printer (26-1254) with cable (26-1401) gives you draft-quality correspondence and reports with optional SCRIPSIT™ word processing program. Model III BASIC gives you advanced programming features for greater creativity and usefulness. You can't top a Model III system like this for personal budget or investment portfolio handling, statistical analysis, mailing lists, real estate calculations and many other business uses—all at a price you can afford. And it's easy to move up to larger internal memory and disk storage at any time.

Level I BASIC for Model III—Easy to Learn

Included with Our $699 Model III

Radio Shack's TRS-80 Level I language is the easiest way 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 your computer using simple English commands. Even if you have no prior knowledge of computer programming, the entertaining step-by-step instruction manual (included) will have you writing a program in no time. Level I includes most standard BASIC features, a screen display of 16 lines by 64 upper case characters, 48 × 128 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. Includes printer commands LPRINT and LLIST.

Model III BASIC—More Features and Power

Standard with Our $999 Model III

Model III BASIC gives you all the features of Level I BASIC, plus upper and lower case characters, a screen format of either 64 or 32 characters, automatic scrolling, a screen print command and repeating keys. And you can load cassettes at either 500 or 1500-baud. You also get multidimensional arrays, definable cursor, comprehensive string handling, 255-character program lines and string variables, automatic line numbering, extensive program line editing, TRACE, PEEK and POKE, machine language user calls, 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). The $999 Model III includes both a comprehensive reference manual and 340-page beginner's tutorial manual.

Expansion Options

Model III BASIC and 16K RAM Kit. Upgrades your 4K Level I to Model III BASIC. 26-1121 . . . . 299.00*
New Low Price! 16K RAM Memory Expansion Kit. Was $99.00 in RSC-7. 26-1102 . . . . 49.00*
RS-232C Serial Communications Board and Cable. 26-1148 · 99.00*

*Price does not include required installation.

47

Exciting, Low-Cost Games and Personal Finance Software

Space Warp

I/II/III. Fast-action space adventure game! Your mission— search the galaxy to find and destroy the alien vessel. Demands fast reflexes and sharp wits. Ten levels of play. Optional audio amplifier may be used for sound effects. 26-1912 . . . . 14.95

Bedlam.
II/III. Here's your chance to escape from the insane asylum. You'll face numerous perils, guard dogs, and more. Finding your way out may drive you mad! 26-1917 . . . . 14.95

"Quick, Watson."
I/II/III. You play the role of super-sleuth Sherlock Holmes and try to find the culprit from the computer's clues. 26-1802 . . . 4.95

Haunted House.
I/II/III. You're trapped in a ghostly mansion with no apparent escape. Solve the mysteries and you'll get out alive. 26-1910 . . . . . . 9.95

Microchess.
I (Model I only)/II/III. It's you vs. the computer in the classic game of strategy. Three levels of difficulty. For beginners or advanced players. 26-1901 . . . . 19.95

Gammon Gambler™.
II/III. Backgammon with doubling cube for betting. Graphically displays board and pieces. Ten skill levels. 26-1916 . . . . 19.95

Flying Saucers.
I/II/III. The year is 1999 and the the sky is becoming packed with "spy saucers." It's up to you to shoot 'em down in "real time" with your laser cannon. Fast-paced fun! Nine skill levels. 26-1905 . . . . 9.95

Invasion Force.
II/III. You are the commander of a starship patrolling the outer reaches of the galaxy. You must destroy the aliens before they destroy you! A fascinating game of strategy. 26-1906 . . . . 14.95

"Eliza" Artificial Intelligence.
I/II/III. What's your problem? Eliza will tell you. Amazing interactive program humorously responds to what you type. 26-1908 . . . . 14.95

Paddle Pinball for Fast-Paced Fun

II/III. Combines a variable pinball field with fast paddle action. Optional audio amplifier available for exciting sound effects. 26-1914 . . . 9.95
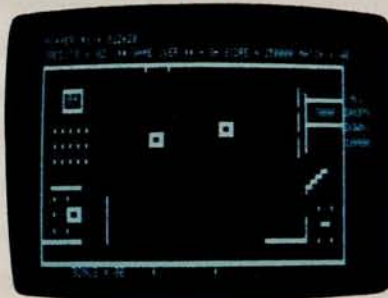
Pyramid.
II/III. Explore the unknown passages of a forgotten Egyptian tomb in search of hidden treasure. You may be the adventurer who gains fabulous wealth. But be careful—you never know what's ahead! An exciting adventure! 26-1909 . . . . . 14.95

New Low Price! Astrology.
II/III. Now it's easy to produce anyone's horoscope in minutes! This fun program comes with interpretive manual and beautiful wall poster. You can even produce an astrological chart with optional printer. Was $29.95 in RSC-7. 26-1605 . . . . 19.95

Raaka-Tu™.
II/III. Search the temple of a forgotten civilization! Slip past guards and reach the inner chambers where the treasures lie. Success comes only to those who are daring and resourceful. But be careful—you'll need all the magic you can muster! 26-1915 . . . . 14.95

Casino Games I.
II/III. Place your bets! It's just like Las Vegas—but you don't lose your shirt. Includes Craps, Keno, Slot Machine, Roulette, Wheel of Fortune and Baccarat. The safe way to gamble. 26-1806 . . . . 19.95

Put on a Show With "Dancing Demon"

II/III. Amazing "demon" tap dances to computer accompaniment. Create your own music and dance routines! Requires audio amplifier. 26-1911 . . . . 9.95
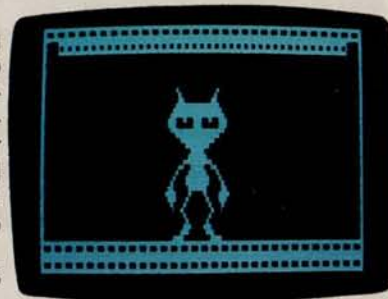
Personal Finance and Investment Software

Trendex Stock Trend Analysis.
II/III/32K 2-Disk. Provides trend indications for short, medium and long term periods based on formulas used by professionals. Maintains intermediate trends for portfolio of your choice. Statistical procedures for analysis of trends and probabilities—not counsel to buy or sell securities. 26-1509 . . . . 49.95

Budget Management.
II/III/32K 2-Disk. A terrific, low-cost way to keep up with and control your home budget. It's versatile and easy to use. Records up to 60 budgeted accounts with 25 cash expenses, plus 20 savings transactions and 50 checks per month. Prints various reports using an optional printer. 26-1603 . . . . 19.95

Cassette Portfolio.
II/III. Helps keep a close watch on your investments. Keeps track of transactions and provides an analysis of yield, total market value and unrealized gain or loss. Summary of investments by type of security, including estimated total market income and value. 20 stocks, 10 bonds, 5 funds, 10 options. 26-1506 . . . . 29.95

Minimum System Requirements
I - 4K Level I
II - 16K Level II
III - Model III BASIC

Software on these two pages require a TRS-80 Model III or I computer and a cassette recorder (such as our CCR-81 Computer Recorder, page 46).

Ready-to-Run Business Applications and Time-Saving Utilities

SCRIPSIT™ Word Processing

Only

39⁹⁵

Easily Prepare Correction-Free Documents

- Edit, Move or Delete Text Before You Print
- Easy to Learn—Comes With Training Course on Cassette Tape and Manual

II/III. The cassette version of our popular word processing program! It's easy to compose and edit your text on the video display—then use an optional printer to produce high-speed, correction-free letters and reports. You can even save your text on cassettes for later revision or update. Features include centering, headers, footers and more! Lets you find or replace specified words, too. Professional word processing power at an incredible low price! 26-1505 . . . . 39.95

Advanced Statistical Analysis

Analyze Data And Forecast Trends
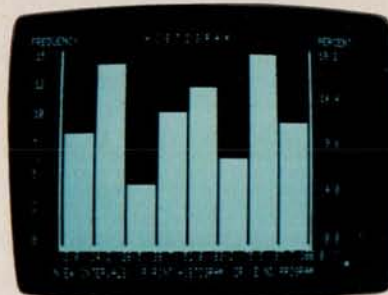
II/III/32K 2-Disk. Ideal for business, education, administration. Programs for tape and disk data files include random sample,

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. 26-1705 . . . . 39.95

Cassette Mailing List. II/III. No more searching through address books! Keep an updatable file of names and print labels (with optional printer). Print entire list, or selectively by Zip Code, company name or other criteria. 80 names per data file with 16K. 250 names with 32K. 26-1503 . . . . 19.95

In-Memory Information.

II/III. A unique computerized card filing system. Great for storing and retrieving names and addresses, recipes, stock numbers, home inventory—any type of information now "filed" away in a drawer. You can sort data in alphabetic or numeric order. It's easy to add, update, or delete items, then store on cassette tape (requires recorder). 26-1508 . . . . 19.95

Real Estate I. II/III. This program and the ones below simplify calculations, and are ideal for the investor or agent. Features stepped income analysis, compound interest, internal rate of return, resale price. 26-1571 . . . . 29.95

Real Estate II. II/III. Provides mortgage analysis. 26-1572 . . . . 29.95

Real Estate III. II/III. Features detailed property income calculations, appreciation/depreciation estimate. 26-1573 . . . . 29.95

Real Estate IV. II/III. Features Ellwood analysis, overall capitalization rate, graphic analysis, sensitivity analysis. 26-1574 . . . . 29.95

Especially for Programmers . . . Languages and Utility Programs

Series I Editor/Assembler. I(16K)/II/III. For assembly language programming. Includes editor and manual with Z-80 instruction set information. Editor features automatic line numbering, line renumbering, single-letter commands plus optional parameters, global search, more. Assembler features single-letter command with optional switches, eight psuedo-ops. Resides in memory with the Editor, so you can easily go back and forth between editing and assembling. 26-2011 . . . . 29.95

Tiny Pascal. Great introduction to this structured programming language. Fixed point, non-array version of PASCAL. Includes sample programs, along with monitor, compiler and editor.
Model III Version. III. Available 10/30/82 26-2020 . . . . 19.95
Model I Version. II. 26-2009 . . . . 19.95

DEBUG. I/II/III. For advanced programmers. Display blocks of memory in 128 or 256-byte full screen mode. Displays Z-80 registers and contents. Also allows modifications to RAM and registers. Includes single step execution of programs and breakpoint interruption of execution (not Level I). 26-2000 . . . . 19.95

Model III BASIC Tape Instruction Course. III. 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. Features eight lessons and an introduction. Explains programming, editing, the use of variables, operators and commands, data storage, strings, special Model III BASIC features, machine language subprograms, and more! 26-2015 . . . . 24.95

Find Just the Right Program in the TRS-80 Applications Sourcebook

Thousands of Program Listings!

Only 2⁹⁵

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

This is "the" place to look for software! 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. 26-2114 . . . . 2.95

New Low Price! Our Most Affordable Professional Desktop Computer

48K 2-Disk With RS-232C

2295⁰⁰

Was $2495.00 in RSC-7

48K 1-Disk Without RS-232C

1849⁰⁰

Was $1995.00 in RSC-7

- ■ Compact One-Piece Design
- ■ 48,000-Character Internal Memory
- ■ One or Two Built-In Double-Density 5¹/₄" Mini-Disk Drives—184K Each
- ■ Expand With External Floppy or Hard Disks
- ■ Typewriter-Style Keyboard With Datapad
- ■ Built-In High-Resolution 12" Monitor Displays Upper and Lower Case Characters
- ■ Huge Library of Ready-to-Run Software
- ■ Complete System—Just Add a Printer

Now the ideal personal desktop computer for the busy manager is even more affordable. The Model III is designed to increase the productivity of every manager—just plug in any of our disk-based management programs. You can let Time Manager™ keep track of your appointments and "to do's." It will automatically update your calendar daily, and keep records of your activities and expenses. Add SuperSCRIPSIT™ and a printer to prepare and edit reports, business letters and memos. Do your planning, forecasting and model development the fast, easy way with VisiCalc® and Desktop/Plan™-80. Electronically automate your filing and reports with the Profile III Plus data base management system. Develop presentations with optional high-resolution graphics or the handy business graphics package that automatically generates graphs or charts. You can add our accounting, inventory, payroll and mailing list programs, too. And with our optional languages you can program in your choice of Compiler

BASIC, COBOL, FORTRAN and Assember. The 2-Disk model provides 368K of disk storage and includes a built-in RS-232C Serial Communications Interface. Just add a modem and cable to communicate with other computers or access national information networks by phone. Add the RS-232C interface and a second internal drive to the 1-disk version to expand from 184K at any time. And you can also add up to two external drives—or, for larger applications, you can add the new Model III Hard Disk. Comes with Disk BASIC and TRSDOS operating system, easy-to-follow owner's manual *and* comprehensive programming manual. U.L. listed.

48K 2-Disk Model III. 26-1066 . . . . . . 2295.00
48K 1-Disk Model III. As above, but without RS-232C interface. 26-1065 . . . . 1849.00

(For basic Model III specifications, see page 46.)

New Low Prices! External Disk Drives

Increase the disk storage of your Model III Desktop Computer. High-capacity 184K external double-density 40-track 5¹/₄" mini-disk drives. Internal Drive #1 required. 6¹/₄ × 3¹/₂ × 14¹/₂".
U.L. listed. Were $499.00 each in RSC-7.

Disk Drive 3. Save $50. 26-1164 . . . . 449.00
Disk Drive 4. Save $50. 26-1161 . . . . 449.00

Who is the disk Model III for?

The disk-based Model III is the perfect desktop computer for busy managers and professionals who need a proven system with an extensive software library. It is excellent for running "electronic spreadsheet" programs to do budget planning and forecasting. Personal computer users like it for its advanced features and expandability. Many school systems choose it as the teacher station to control a network of low-cost Model III student stations. Professional writers use it as the key to an inexpensive, full-feature word processing system.

One-Disk Model III Manager's System Improves Productivity

Two-Disk Word Processing For Professional Results!
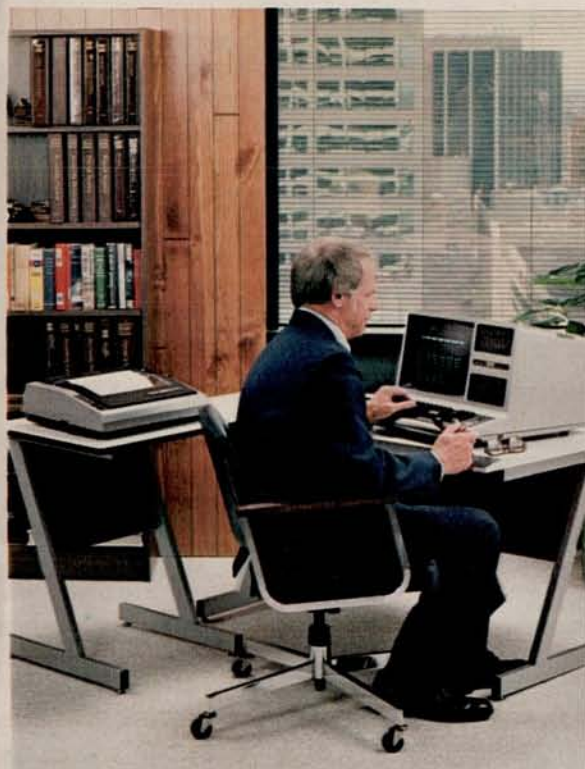
2965⁰⁰

- ■ Ideal for Planning
- ■ Produce Reports Fast

The 1-disk Desktop Business Computer (26-1065) and our DMP-200 (26-1254) printer make a manager's dream come true! Just add our VisiCalc® software for financial planning and forecasting. You'll be able to analyze "what if . . . " situations in seconds. Get our Profile program and create your own "customized" electronic filing system. Or turn your Model III into a powerful word processor with SCRIPSIT™ to produce "correction-free" correspondence and reports. This deluxe system is complete with System Desk (26-1305), Universal Printer Stand (26-1308) and printer cable (26-1401). It's ideal for any manager's office. The greatest time saver and productivity multiplier available!

3999⁰⁰

- ■ Fast Input and Editing
- ■ Letter-Quality Copies

Our SuperSCRIPSIT™ software (26-1590) and 2-disk Model III Desktop Business Computer (26-1066) team up to give you low-cost, full-featured word processing. Letters and documents can be composed on the video screen—making editing easy. Then print all the correction-free "originals" you need on the "letter-quality" DWP-410 (26-1250) Daisy Wheel Printer (with cable, 26-1401) at 300 words per minute. SuperSCRIPSIT features true proportional spacing, underline, double underline, bold face, super and subscripts, multiple column printing and more. And you can save the completed text on disk. Typing will never be the same! Add our ready-to-run software to perform other business tasks, too.

Model III Disk System 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 easily 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 and proven 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 stored commands

DUAL—Automatic printing of screen display

TIME/DATE—Keeps track and displays

DEBUG—Aid for debugging machine language programs

TAPE—Transfers machine language tapes to disk

FREE—Visual display of disk space

Utilities—Provides Copy, Backup, Patch, other utilities

Disk BASIC

Disk BASIC provides a number of extensions to our ROM-based Model III BASIC, including many features for disk file access. The Disk System Owner's Manual includes sample programs and full explanations. Features include: CMD functions, which allow you to examine Disk directory from Disk BASIC, protect programs from BREAK key, string sort and cross reference. Random or sequential access of files, machine language options, definable functions, string search for portions of strings, and LINE INPUT that accepts any keyboard character including commas and quote marks are also included.

New Low Prices! Internal Disk Drives

Upgrade your Model III from a cassette system.
Disk Drive Kit 1. Includes TRSDOS, Disk BASIC, manual. Was $849.00 in RSC-7. 26-1162. .... 799.00*
Disk Drive Kit 2. Was $399.00 in RSC-7. 26-1163 .... 349.00*

*Price does not include required installation.

Retail prices shown in this catalog may vary at individual stores and dealers.

51

New! Hard Disk Drive Adds 5 Megabytes Of Storage to Your Model III and I

2495⁰⁰
Primary Hard Disk System

1995⁰⁰
Secondary Hard Disk System

Available 11/15/82

- Add Up to 3 Secondary Hard Disk Drives For a Total of 20 Megabytes of Storage
- Compatible With Most Model III/I Software
- Large Capacity and High Speed Make It Ideal For Inventory, Accounting, Data Base Filing
- Operating System Enhances Familiar TRSDOS Commands With Convenient Hard Disk Features
- BACKUP's Special Features Allow Easy Selection Of Specific Files and Fast Backup of Large Files to Multiple Diskettes

I/III ■ Our 5 megabyte Hard Disk System gives you vastly increased data storage—with exceptionally fast access and ease of use. Winchester technology can provide dramatic improvements in speed. The advanced operating system's many superior, user-friendly features make file handling a breeze. Store over 1000 different files per disk system or create files as large as the available space. The directory is alphabetized to make locating and accessing files quick. High-level communication is available through an advanced communication package that allows direct downloading to disk. A print spooler is included, too. The Job Control

Language allows you to compile and later execute a predefined series of commands, including screen and audio alerts, conditionals, and user interaction to make many large-scale operations virtually automatic. BACKUP, in addition to ordinary backup functions, permits backing up only those files that have been modified, or modified in certain date ranges, or even those that do or do not already exist on the destination disk. When backing up from hard disk to diskettes, the system will span a large file across multiple diskettes and allow easy identification of diskettes when recreating a file on the hard disk. Other features include keyboard

type-ahead for fast data entry, a versatile printer output formatting program, key redefinition, and more. Extensive user's manual included. U.L. listed.

Primary Drive. Includes Hard Disk Operating System with BASIC. 26-1130 . . . . 2495.00

Secondary Drive. Installation required (not included). 26-1131 . . . . 1995.00

Model I Adapter Kit. Includes Adapter, cable and diskettes. Note: May require installation (not included). 26-1132. . . . . 39.95

New! Add High-Resolution Graphics to TRS-80 Model III

- For Business, Engineering or Entertainment
- Easy-to-Use Graphics BASIC Included
- Provides 153,600 Picture Elements (640 × 240)
- Use Assembly Language Subroutines
- Quickly Draws Lines and Fills in the Spaces

369⁹⁵
Plus Installation

III ■ Now you can turn your TRS-80 Model III video display into a remarkable electronic "sketch pad" to create sophisticated business graphs, tables, charts, maps, illustrations, geometric patterns—and animation! The 153,600-pixel display allows amazingly fine detail, and the Graphics BASIC command structure is a snap for anyone. All you

need to learn are a few new commands (summarized at right). They have incredible power in creating complex graphics quickly and easily. Includes 32K RAM memory board, user's manual and diskette with Graphics BASIC and subroutine library. Installation required (not included).
26-1125. Available 12/30/82 . . . . 369.95

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.
LINE— Draws a line between points.
PAINT—Paints an area in a specified style.
POINT—Checks to see if a point is on or off.
PRESET—Turns a pixel on or off.
PUT—Puts contents (bit pattern) of an array onto the screen. Used in 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.

Save Time With Our "Manager Series"

Let Your TRS-80 Computer Manage Your Business Day!

- ■ **Keep Track of Your Priorities and Expenses**
- ■ **Create Charts of Time, Tasks and Resources**
- ■ **Transfer Information Between the Programs**
- ■ **Very Easy to Use—No 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.

Time Manager™

I/III ■ 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 files by keyword. Totals hours worked and expenses.
26-1582 . . . . 99.95

Project Manager™

I/III ■ Graphically displays a project in several ways to allow evaluation and scheduling, spot overextended resources. View project by time, sequence, personnel, materials, or resources. Shows effect of any changes. Prepares charts. Important dates will appear on Time Manager.
26-1580. Avail. 10/30/82 . . . . 99.95

Personnel Manager™

I/III ■ Organizes information on employees, including schedules and salaries, plus business contacts, and clients. Files can be searched for a person, company, product or service by pre-defined categories. Organize data for evaluating vendor or employee performance. Prepare telephone, mailing lists. 26-1581 . . . . 99.95

New! Business Graphics Analysis Pak
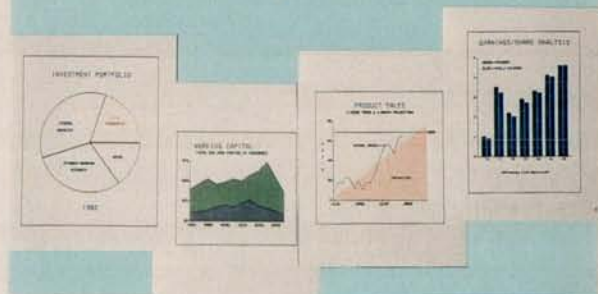
- ■ **Select Pie, Bar, Line or Scatter Charts**
- ■ **Easy Data Manipulation and Text Editing**

III ■ Great for corporate planners, analysts, managers or small businessmen. Select a picture type, supply the data, and the program quickly displays your graph on the screen. Creates a graph larger than the screen and scrolls to portions of it. Allows editing of titles and labels before printing. Options include the size, shape and format of the chart, adjusting the scale range, adding shading and a frame, and much more. Enter data from keyboard or from disk files—including VisiCalc. Produces charts on selected Radio Shack printers or multi-pen plotter.
26-1597. Avail. 10/30/82 . . . . 174.95

Minimum System Requirements For Disk Software

I—Model I
III—Model III
I/III—Model I and Model III

- ■ 32K 1-Disk System
- ■ 32K 2-Disk System
- ■ 48K 1-Disk System
- ■ 48K 2-Disk System

Planning and Forecasting with VisiCalc® and Desktop/Plan™-80

Enhanced Model III VisiCalc®

III ■ 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. Enhancements include an entry editor to speed worksheet preparation by allowing you to modify formulas and labels without re-entering them. Logical and comparison operators to perform testing and branching. Optional printer allows you to print any portion of your worksheet. 26-1569 . . . . . . 199.00

Invaluable for . . .
- ■ Model Development
- ■ Budgeting
- ■ Sales Projections
- ■ Scheduling
- ■ Pricing
- ■ Ratio Calculations
- ■ Profit & Loss Projections
- ■ Cash Flow

Model I VisiCalc

I ■ Similar to Model III VisiCalc at left, but without enhancements. 26-1566 . . . . 99.95

Desktop/Plan-80

III ■ This advanced program guides you step by step through the development of a financial model. Simply define your model size and logic, and enter starting values. Try different entries to analyze probable results of business decisions. Consolidates sub-models into one summary model, transfers lines from several budgets to a summary budget, prints reports and line charts, receives data from VisiCalc files to produce reports. 26-1594 . . . . 199.00

Save Time and Effort With Word Processing

- **Simplify Typing—Get Correction-Free Reports, Letters and Documents Every Time**
- **Increase Efficiency and Productivity**
- **Easy to Use—No Special Training Required**

TRS-80 SCRIPSIT™ word processing can make anyone's work easier. With SCRIPSIT, you can prepare memos, letters and manuscripts error-free! How? By simply entering and editing your text right on the video screen—making corrections, adding or deleting sentences and words, moving paragraphs, and more—electronically! When you have your text just the way you want, you can print as many "correction-free" originals as you need—from draft-quality to letter-perfect at up to 500 words per minute (depending on your choice of printers). It's faster than using a typewriter! And frequently used reports and forms can be stored on diskette for use again and again—and updated at any time.

It's easy to turn your TRS-80 into a full-featured word processor! Radio Shack offers you two SCRIPSIT word processing programs for your Model III or I. Choose our most affordable version (below right) and start preparing your text the electronic way. Or select our more powerful version (right) with advanced document and printing features.

Advanced Word Processing

SuperSCRIPSIT™. I■III■ Our most powerful word processing program for Models I and III. Advanced features include true proportional-spaced printing, multiple line spacing (including half-space), and "save and recall" multiple paragraph formats. You get align tabs, automatic pagination and user definable print codes, too. SuperSCRIPSIT supports underline, double underline, boldface, super and subscript, and multiple column printing (depending on the printer you choose). In addition, a document can be as large as the available space on a disk (about 30,000 words on Model III). And there's a convenient "help" function if you forget how to run any option.

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, training manual, reference manual and reference card. Requires printer. 26-1590 . . . . 199.00

Data Base Management

Create your own personalized electronic filing system! Managers can keep track of price lists, business inventories, vendor and customer records, personal projects, and more!

Organize With Profile III Plus

- **Our Most Powerful Model III Electronic Filing Program**
- **Includes All Features of Our Popular Model II Program**
- **No Computer Experience is Needed**

Profile III Plus. III■ This versatile program meets needs ranging from "data bases" of customers and accounts to prices and parts. You decide! Stores up to 2000 one-segment records that are 100 characters in length. Store even more with additional drives or different size records. 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. Indexing allows high speed access using any one of 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 for special reports or letters. 26-1592 . . . . 199.00

Profile. I/III■ Set up a data entry screen and report—in just seconds! Access names, addresses, accounts, personnel records and more. Ideal when changes are infrequent. Files can interact with your BASIC programs. Printer optional. 26-1562 . . . . 79.95

Versafile. I/III■ Find facts in your files that match "keywords" in your question. A "global search" even finds the most similar information when there's not an exact match. 26-1604 . . . . 29.95

Add an Automatic Spelling Checker

SCRIPSIT Spelling Dictionary. I/III* ■ No more letters and memos with embarrassing misspellings—and no more time-consuming proofreading! The SCRIPSIT Dictionary program turns your TRS-80 into a fast and efficient "proofreader" that automatically checks for misspelled words. The Dictionary quickly finds spelling errors by comparing each word to the Master List and to your own specialized User List. If the word isn't on the lists, the word is highlighted. You can correct the word or, if it's a term unique to your business or profession, add it to your User List. Contains over 73,000 commonly used words (34,000 with Model I). User list can contain up to 2045 words with a 48K system. For any text material prepared with SCRIPSIT, SuperSCRIPSIT, or ASCII files. 26-1591 . . . . 149.00

Affordable Word Processing

SCRIPSIT™. I/III■ Allows you to enter and correct text, then print "correction-free" originals. SCRIPSIT is easy to learn and use because you never have to memorize how to perform complex tasks. With just a few keystrokes, you can 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. Other features include reformatting, hyphenation, centering, headers, footers, justification, margin and tab settings, automatic page numbering, and more. This low-cost disk-based SCRIPSIT program is designed especially for smaller documents and does not include advanced printing features. With training manual, audio cassette course, and quick reference card. Requires printer. 26-1563 . . . . 99.95

Streamline Your Accounting

General Ledger I. I/III■ For small businesses with up to 100 accounts. 240 entries per session, up to 1830 per month. 26-1552 . . . . 99.95

Inventory Control I. I/III■ Retail inventory record keeping and control for up to 1000 items. Tracks vendors, order dates, backorders, out-of-stock and on-order items. 26-1553 . . . . 99.95

Accounts Payable. I/III■ Prints checks, register, cash flow analysis, and activity summary. Handles 75 vendors with 1000 transactions, or 200 vendors with 800 transactions per month. 26-1554 . . . . . 149.95

Accounts Receivable. I/III■ Monthly statements, aging reports, activity analysis, and automatic totals for posting to your company's General Ledger. Easy access to accounts for updating, deleting or printing. Handles 300 customers with 1000 transactions, or 100 customers with 2000 transactions per month. 26-1555 . . . . 149.95

Disk Payroll. I/III■ 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. 26-1556 . . . . 199.95

Business Mailing List. I/III■ Prints two-across labels. Fast sort in Zip Code or alphabetical order. Handles 990 names with 32K 2-Disk, or 2970 names with 48K 4-Disk. 26-1558 . . . . 99.95

Manufacturing Inventory Control. I/III■ Handles up to 1900 raw materials, up to 20 finished goods per diskette. Prints bill of materials, finished goods list, and more. 26-1559 . . . . 199.95

Hardware Requirements

I = Model I only
III = Model III only
I/III = Model I and III
■ 32K 1-Disk System
■ 32K 2-Disk System
■ 48K 1-Disk System
■ 48K 2-Disk System

*Requires 3-Disk System on Model I with SuperSCRIPSIT.

See Page 50 For Model III Disk Systems

New! Fast and Easy Bookkeeping System

- **For Check Recording and Check Writing**
- **Prints Checks, Detailed Check Stubs, Expense Summaries**
- **Records Multiple Daily Deposits**

Business Checkwriter™. III■ You get a check writer, a detailed check stub for paying multiple invoices, and a bank reconciliation system. It's ideal for small business accounting. Business Checkwriter is as easy to use as filling out a check, yet you get the speed and accuracy of the computer. Handles multiple accounts individually, 100 payees, 100 expense categories (including a miscellaneous category), 375 total checks and deposits per period, with 10 detail lines per check. Records handwritten checks. And it maintains your current bank total, too. Check stub details discounts and expenses. Prints checks, detailed stubs, check register, expense and payee-to-date summaries, payee lists and expense list. Requires printer. 26-1585 . . . . 149.95

BASIC Programming Courses

Model III BASIC Course. III■ 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. 26-2010 . . . . 29.95

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

A Complete Stock Analyzer and Portfolio Manager

Standard & Poor's STOCKPAK™ System. I/III■ Maintains a portfolio of up to 100 securities. Sample data base includes 900 NYSE, AMEX and OTC stocks. Monthly updates available on diskette by optional subscription from Standard and Poor's. Use the STOCKPAK to create custom stock reports, analyze the stock data base using a variety of criteria you select, and view samples from the complete 900-stock data base. 26-1507 . . . . 49.95

Languages And Utilities

COBOL. I/III■ The favorite for business programs, COBOL (COmmon Business Oriented Language) is based on the ANSI '74 standard. Provides single-step compiler for fast execution, multi-key ISAM for quick data access, COBOL editor for creating and changing source programs, DEBUG for program development and testing. Includes 297-page manual with System User's Guide, COBOL Editor Guide, and COBOL Reference Manual. 26-2203 . . . . 199.00

Compiler BASIC. I/III■ Lets you program in familiar BASIC, and gain powerful business extensions. Advanced features include single-key ISAM to help organize and retrieve data, interactive DEBUG to speed program development, easy calls to assembly language or other object programs, and cross-reference. (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. 26-2204 . . . . 149.00

Run-Time Diskettes. I/III■ For those who 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. III■ Includes compiler, editor, linking loader, library. 26-2200 . . . . 99.95

FORTRAN. I■ 26-2201 . . . . 99.95

Editor/Assembler, Series I. I/III■ Allows advanced programmers to program in Z-80 assembly language. Includes editor/assembler, sample programs, and extensive 255-page manual— including detailed descriptions of the Z-80 mnemonics. 26-2013 . . . . 34.95

Computer Assisted Instruction Courseware

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 and science. Proven CAI techniques have centered on individualized learning where the computer generates and presents student exercises in a given subject area.

The K-8 Math Series

Ideal for use as a supplement to regular classroom instruction in Kindergarten through 8th grades. This series has been designed by professional educators, and has been extensively field-tested in the classroom. Immediate feedback is given for correct and incorrect answers. Each program includes lesson summaries and K-8 Math Cross-Reference.

K-8 Math Program, Vol. I

I/III* + ■ Randomly generated drill and practice problems in number concepts, addition, subtraction, multiplication and division. Features student placement, skill building and test modes, plus automatic promotion and demotion. 26-1715 . . . . 199.00

K-8 Math with Student Management, Vol. I

I/III*■ The original K-8 Math Program with added student management feature. Monitors promotions and demotions, and allows for teacher review of scores. Starts each student in the appropriate lesson each session. Printer optional. 26-1725 . . . . 199.00

K-8 Math Worksheet Generator

I/III■ Prints worksheets and answer sheets from K-8 Math lessons. Teacher can print multiple copies of identical worksheets or worksheets with different problems at the same difficulty level. Worksheets can be saved on disk for later use or editing. Line printer required. 26-2162 . . . . 99.95

K-8 Math Cross-Reference

Correlates individual K-8 Math lessons with specific chapters and pages in six major math basals. 26-2750 . . . . 4.95

Secondary Math and Science Programs

Essential Math Program, Vol. I and II

I/III* + ■ Drill and practice program for grades 7-12. Reinforces math concepts introduced by the teacher. Gives immediate feedback for correct and incorrect answers. Programs have been thoroughly field-tested. Includes placement mode, and promotion and demotion. Volume I includes exercises in addition, subtraction, multiplication, division, and number concepts. Volume II covers fractions, decimals and percents, and pre-algebra concepts.

Essential Math, Vol. I. 26-1716 . . . . 199.00
Essential Math, Vol. II. 26-1719 . . . . 199.00

Euclid Geometry Tutor

I/III* + ■ Allows students to practice constructing proofs using nine basic postulates of Euclidean Geometry. Developed by a high school geometry teacher and tested extensively in the classroom. Consists of four modes: automatic mode completely works out a proof for the student; practice and quiz modes guide the student in constructing a proof; and a test mode monitors and checks a student's proof. Teacher's manual provides exercises covering a wide variety of problems. 26-1724 . . . . 39.95

Chemistry Simulations

Each program consists of six laboratory experiment simulations. Students control variables in experiments in order to see the changing results. Experiment topics include Kinetic Theory, Charles' Law, Boyle's Law, Titration, Conductivity, and Solubility. Each package includes an instructor's manual and 25 student experiment books. Student experiment books include instructions for using the programs, plus worksheets for use in summarizing experiment results.

Chemistry I. I/III* + ■
26-2609. Available 11/82 . . . . 199.00

Color Chemistry I. CC■
26-2626. Available 11/82 . . . . 199.00

Additional Student Experiment Book. For use with 26-2609 and 26-2626. 26-2666. Available 11/82 . . . . 3.00

Additional CAI simulation, problem-solving, or tutorial exercises for the secondary student:

Advanced Graphics. I/III* + ■ Plots graphs of functions and polar and parametric equations. 26-1714 . . . . 39.95

Vector Addition. I/III* + ■ Plots components and sums of student-provided vectors. 26-1720 . . . . 39.95

Interpreting Graphs in Physics: Position and Velocity Vs. Time. I/III* + ■ Poses graph-related questions. 26-1721 . . . . 39.95

Graphical Analysis of Experimental Data. I/III* + ■ Plots and analyzes data pairs input by student. 26-1722 . . . . 39.95

Investigations in Integral Calculus. I/III* + ■ Graphs and computes areas of functions. 26-2600 . . . . . 39.95

Plane Analytic Geometry. I/III* + ■ Generates problems with emphasis on straight lines and conic sections. 26-2602 . . . . 39.95

NEW! Number Theory. I/III* + ■ Definitions, examples, and exercises on number theory concepts. 26-2613. Available 11/82 . . . . 69.95

NEW! Matrices, Determinants, and Simultaneous Equations. I/III* + ■ Generates problems related to simple matrix algebra. 26-2620. Available 11/82 . . . . 49.95

NEW! Quadratic Equations. I/III* + ■ Coefficient recognition, discriminate evaluation, type of roots, etc. 26-2623. Available 11/82 . . . . 49.95

Minimum System Requirements

I – Model I
III – Model III
I/III – Model I or Model III
CC – Color Computer

■ 16K With Cassette
■ 32K With One Drive
■ 48K With One Drive

+ Furnished on cassette and diskette. Disk version requires 32K with one drive.

*Compatible with Network 3. Requires additional 16K and RS-232C in student station.

**Requires Model I lower-case modification.

Computer Assisted Instruction Courseware
Reading and History Programs

High Motivation Reading Series

Radio Shack's High Motivation Reading Series (HMRS) is based on motivational reading materials for levels 4-6 using an illustrated format. Four student readers and a read-along audio tape accompany the program. The computer measures comprehension in several skill areas, such as understanding the main idea, sequence of events, details, and separating fact and opinion. Spelling and vocabulary drill-and-practice exercises based on words from the story are also included in Model III versions. These exercises are repeatable—each session randomly selects a new sequence of problems from a large pool of possible words. Additional activities are included in the teacher's manual. Program can be used with optional Student Records System that stores student scores on disk. TRS-80 MicroPILOT™ (#26-2718 for Model III; #26-2205 for Model I) required.

NEW! HMRS Charles Lindbergh/Amelia Earhart. III■
26-2513. Available 10/82 . . . . 74.95

NEW! HMRS Hound of the Baskervilles. III■
26-2514. Available 10/82 . . . . 69.95

NEW! HMRS Dracula. III■
26-2515. Available 10/82 . . . . 69.95

HMRS Dracula. I··■ 26-2502 . . . . 59.95

NEW! HMRS Moby Dick. III■
26-2516. Available 10/82 . . . . 69.95

HMRS Moby Dick. I··■ 26-2503 . . . . 59.95

NEW! HMRS The Beatles. III■
26-2517. Available 10/82 . . . . 69.95

NEW! HMRS 20,000 Leagues Under the Sea.
III■ 26-2518. Available 10/82 . . . . 69.95

HMRS Student Records System. Use with above to maintain a complete record of student activity scores. Printer optional.

Model III Version. III■
26-2521. Available 10/82 . . . . 29.95

Model I Version. I··■ 26-2508 . . . . 24.95

New! C.A.R.D. I: Sentences

III■ Tutorial lessons in sentence skills adapted from the Philadelphia City Schools Computer Assisted Reading Development Program. Covers sentence recognition, labeling, sentence relationships, and ordering sentences. Pre- and post-tests are included for each topic. Pre-tests are also included on a separate diagnostic diskette. TRS-80 AUTHOR I Lesson Presentation Package (26-2707) required. 26-2603 . . . . 199.00

History of Technology

These packages describe technological achievements through graphics, text, sound effects and recorded speech. Each package includes four lessons with student interaction and instructional feedback messages.

Pioneers in Technology
CC■ Lessons include The Age of Flight, Space Exploration, The Electric Car, and History of Computers. 26-2624 . . . 94.95

Inventions That Changed Our Lives
CC■ Lessons include Edison's Electric Inventions, Bell and the Telephone, The Story of Railroads, and The Age of Television. 26-2625 . . . . . 94.95

AlphaKey™
I/III· + ■ Helps children 4 to 6 years old become familiar with the alphabet and computer keyboard.
26-1718 . . . . 39.95

Numeric Data Entry Practice
I/III■ A 25-lesson practice course to help students develop speed and accuracy in the 10-key entry of numeric data. Printer optional. 26-2601 . . . . 39.95

Computer Education Series
Courses in BASIC Programming

Complete secondary and post-secondary classroom packages consisting of overhead transparencies for 10 lessons, a teacher's manual with instructions and answers, and 25 student workbooks. Each lesson has five parts— overview, objectives, notetaking guide, quick quiz and hands-on computer activity. Hands-on experience helps reinforce important programming concepts, principles and techniques.

Part 1: Introduction to BASIC. I/III■ Introduces students to TRS-80 and BASIC language. 26-2150 . . . . 220.00

Additional Workbook for Part 1. 26-2151 . . 3.50

Part 2: BASIC Programming. I/III■ Continues the BASIC programming concepts introduced in Part 1. Topics include arrays, memory management, string manipulation, and more. 26-2152 . . . . 260.00

Additional Workbook for Part 2. 26-2153 . . 4.50

Part 3: Advanced BASIC. I/III■ Introduces the INKEY$ statement, ASCII character set, action graphics, cassette data files, mathematical and trigonometric functions, and multi-dimensional arrays. 26-2154 . . . . 260.00

Additional Workbook for Part 3. 26-2155 . . 4.50

NOTE: Software not included in the above series. Student activities are designed for hands-on experience with Level II or Model III BASIC.

New! Computer Discovery

New addition to our Computer Education Series. Introduces students to computers, their evolution and impact on society, and basic programming concepts. Each package includes interactive exercises, 25 student workbooks, and instructor manual.

Computer Discovery for Junior High. III■
26-2630 . . . . 189.95

Additional Workbook. 26-2631 . . . . 4.25

Computer Discovery for Senior High. III■
26-2632 . . . . 189.95

Additional Workbook. 26-2636 . . . . 4.25

Education Management Systems

Courseware Development

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

TRS-80 AUTHOR I
I/III■ A screen-oriented authoring system that allows teachers to create CAI materials. Features full-screen editing, graphics and automatic score-keeping option. The teacher can include a glossary, hints, positive and negative feedback messages, even print student scores and timings. You can design branching within lessons, as well as to other AUTHOR I lessons or non-AUTHOR I programs. Sample lesson included on diskette. 26-1727 ..... 149.95

TRS-80 AUTHOR I
Lesson Presentation Package
I/III■ Presents lessons that have been created using TRS-80 AUTHOR I. Score recording and printing allows the teacher to print out student scores and timings. Sample lesson included on diskette. (Not required if you have TRS-80 AUTHOR I.) 26-2707 ..... 64.95

TRS-80 MicroPILOT™
Create your own TRS-80 courseware or adapt it from any curriculum that's suitable for computer assisted instruction. TRS-80 MicroPILOT is command-oriented. It's based on the PILOT computer language, but with extended graphics and disk file handling capabilities. Includes user's manual, sample lesson and a reference section.

Model I. I■ 26-2205 ..... 99.95
NEW! Model III. III■ Includes enhanced Model I commands, plus eight new commands. 26-2718. Available 10/82 .. 119.95

Quick Quiz:
A Mini-Authoring System
I/III■ Makes it easy for teachers to create, store, and give multiple-choice tests in any subject area using a TRS-80 computer. Program provides a pre-designed multiple-choice format for typing up to 40 questions with 4 answer choices per question. The teacher can save exercises and tests on diskette, edit any question or answer choice, and administer the test by printing multiple copies or by allowing students to work at the computer. Their scores can be printed or stored in a disk file for later review. 26-1728 ..... 39.95

CHAMPS™
I/III■ CHAMPS lets you store and analyze scouting information on your opponents' offense. It prints a variety of listings, charts, and statistical reports to help coaches prepare for each game. You can get comprehensive answers to specific tendency questions in seconds. Includes ten CHAMPS Scouting Manuals, which aid even inexperienced scouts in collecting the necessary information for the computer to process. The manual also makes it easy to record defense and kicking data. Designed for high school and college levels. 132-column line printer required. 26-2703 ..... 149.95
Additional Scouting Manuals. Pkg. of 10. 26-2708 ..... 39.95

New! REKORD Planner
III■ A record-keeping system you can personalize to fit your own needs! File student data, print out student and school records, even generate reports. It makes information available instantly about any student in the file. Includes a program and tutorial diskette, plus sample formats. Available 11/82.
Administrator's Version. 26-2725 .. 499.00
Counselor's Version. 26-2726 ..... 499.00
Special Programs Version. 26-2727 .. 499.00

Educational Resource Series

TRS-80 Educational Software Sourcebook

Radio Shack introduces a special edition of the TRS-80 Software Sourcebook for educational courseware. Vendor-furnished listings include descriptions of programs, plus user site references. Indexed by subject, user level, and instructional technique employed. 26-2756 ..... 4.95

Computer Literacy: Computers Past and Present

In today's world, students need a solid understanding of computers. This classroom package illustrates the history of computers, what a computer is, what it can do, and how it works. A sample computer program is shown and analyzed, too. Includes teacher's guide, six spirit masters for duplicating student worksheets, and a colorful wall chart. 26-2755 ..... 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 and for administrative purposes. It discusses costs, courseware, and other considerations of special concern to the educator. 26-2757 ..... 2.50

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

New! My TRS-80 Likes Me
A 32-page teacher's guide to helping elementary students understand and enjoy the BASIC computer language. Includes lots of fun programs and activities. 26-2751 ..... 2.50

New! Number Patterns
This 36-page booklet shows how to introduce sequences and series in an entertaining way using computers. 26-2752 ..... 2.50

Network Controllers Turn Classrooms Into Shared Learning Systems

The Versatile Network 2 Controller

499⁰⁰

- Connect Up to 16 TRS-80s To a Single Host Computer
- All Cables Included

I/III/CC. Our Network 2 Controller lets teachers up- and down-load programs to TRS-80 student stations. Requires a Model I or III "host" computer with disk drive and up to 16 Model I or III stations, or a Color Computer "host" with disk drive and up to 16 Color Computer stations. Controllers can be cascaded to connect more stations. 26-1211 . . . . 499.00

Minimum System Requirements

I—TRS-80 Model I
III—TRS-80 Model III
I/III—Model I or Model III
CC—TRS-80 Color Computer

- 32K 1-drive, printer optional
- 48K 1-drive, printer required

Radio Shack's Powerful Network 3 Controller

- Access Programs Simultaneously from Disk with Low-Cost TRS-80 Model III Microcomputers
- Connect Up to 16 Non-Disk Student Stations to a Single "Host" Disk System
- Operation is Virtually Automatic— No Need for Constant Teacher Supervision

599⁰⁰

Network 3 system requirements— Controller, Operating Software, and cables. Minimum student station—16K Model III with Model III BASIC and RS-232C interface. Minimum host station—32K 1-Disk Model III with RS-232C interface. A line printer is optional.

III. The Network 3 Controller enables up to 16 Model III student stations to choose from lessons stored on a teacher's "host" system. This frees the instructor from repeatedly loading programs into individual stations. And scores are automatically stored on the host disk for later review as lessons that generate student record-keeping are completed. The Network 3 also allows computer science students to learn Disk BASIC on a non-disk Model III. That means you get the features of a disk-equipped computer, but at about half the price! Student stations can operate independently, too. An optional line printer attached to the host system lets students get printouts of their programs without teacher assistance. The Network 3 is designed for classroom use with Radio Shack's educational courseware described on pages 56 and 57 as Network 3 compatible. Other educational or business software may not be suitable for use with this system. Cables available separately (see page 26). U.L. listed. 26-◼◼◼ 599.00

New! Network 3 Operating Software

III. Supports the Network 3 host and its student stations with many of the capabilities of TRSDOS and Disk BASIC. Permits student stations to SAVE and LOAD programs directly to and from the host disk, and LLIST and LPRINT to the host printer. Printer access requests are "spooled" at the host until the printer is free, so pupils can move on to the next project without delay. Uses 9K of RAM at each station. Automatic polling of student stations at 9600 baud. 26-2775 . . . . 149.00

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Now Over 300 Radio Shack Computer Centers Provide Total Customer Support ... Before, During and After the Sale!

Line Printer 8

Full Line in Stock

In addition to TRS-80 microcomputers, Radio Shack Computer Centers carry our peripherals, software and many other business products. Of course, more than 8500 Radio Shack stores and participating dealers worldwide stock our "popular-priced" TRS-80 computers and accessories.

Professional Assistance

Our company-trained Computer Center staff can answer your questions and help you select the right TRS-80 system. They can explain our leasing, service and training plans, too. For example, your business can lease any system over $1500!

Quality Software at Low Prices

We offer more ready-to-run programs than any other microcomputer manufacturer. And you can choose our software packages right "off the shelf" at Radio Shack Computer Centers nationwide.

Complete Training Facilities

Our professional seminars will acquaint you with our TRS-80 systems. And you'll get "hands-on" experience, because you'll be using the TRS-80 while you learn.

Service Agreements

Service is available through all Radio Shack Computer Centers. In fact, most Computer Centers have service facilities right on the premises. We offer affordable "Carry-In", convenient "On-Site" and "Limited On-Site" service.

Customer Service Representatives

These trained experts will help you with any after-the-sale questions or problems. You receive complete technical assistance and support. Radio Shack Computer Centers simply give you the best support you'll find anywhere!

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Retail p___ ___his catalog may vary at individual stores and dealers.