

TEXAS INSTRUMENTS TI-99/4A HOME COMPUTER

This is THE
Home Computer



1982

**Easy to start. Easy to use.
That's the Texas Instruments
Home Computer.**

Everything about the Home Computer has been designed to make it easy to operate whether you are a never-even-touched-a-computer-before-beginner or an old hand at writing your own programs.

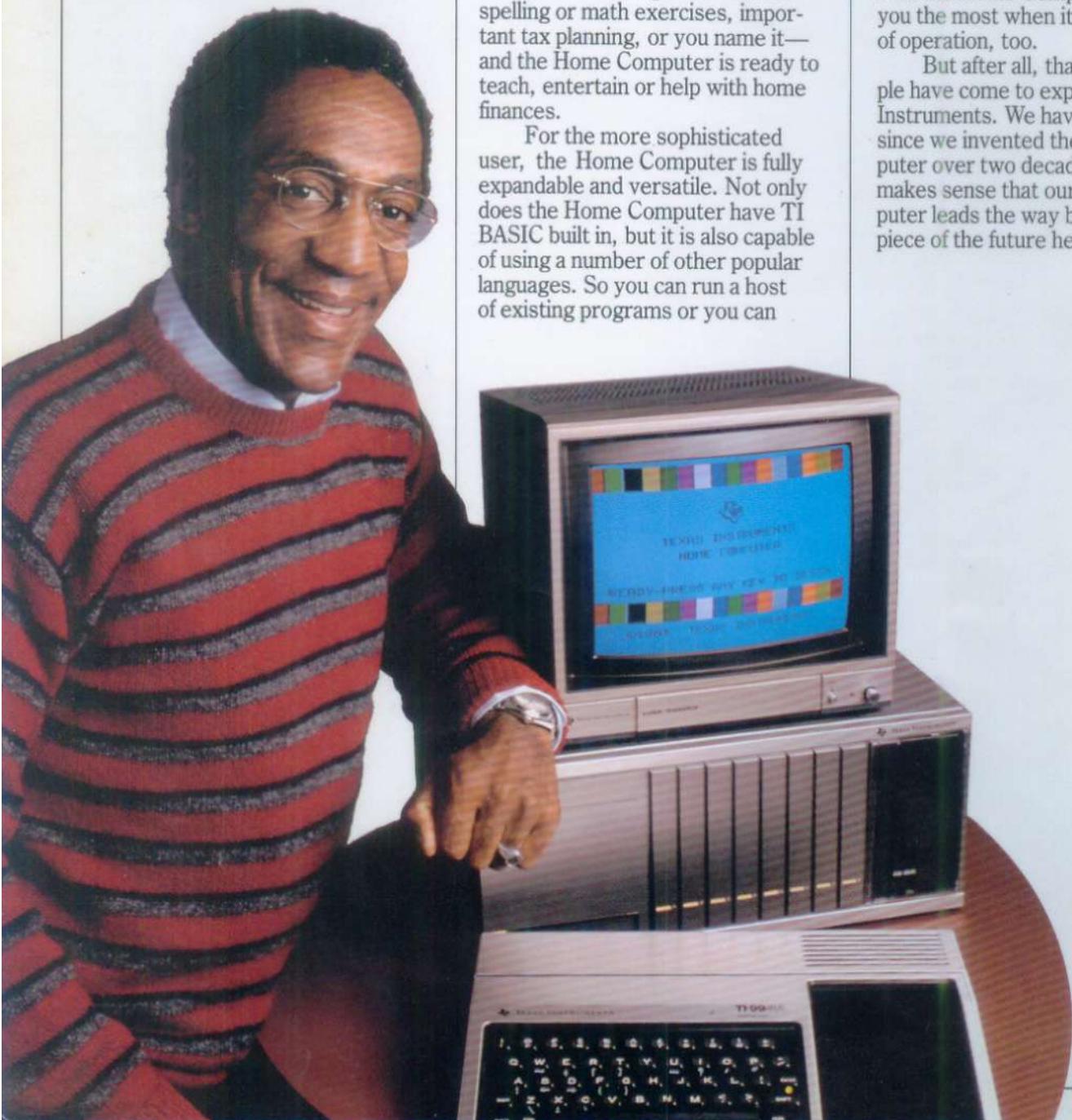
For the novices, the Home Computer offers top quality equipment that's ready to go to work for them with the very first push of a button. A wide range of Solid State Software™ Command Cartridges are available. So the novice needs only to select a program cartridge—for a great arcade game, valuable spelling or math exercises, important tax planning, or you name it—and the Home Computer is ready to teach, entertain or help with home finances.

For the more sophisticated user, the Home Computer is fully expandable and versatile. Not only does the Home Computer have TI BASIC built in, but it is also capable of using a number of other popular languages. So you can run a host of existing programs or you can

write your own programs simply and easily.

The Texas Instruments Home Computer offers the best of both worlds. With the TI Home Computer you get the most advanced, most versatile home computer for the money on the market today. Plus the Home Computer offers you the most when it comes to ease of operation, too.

But after all, that's what people have come to expect from Texas Instruments. We have led the field since we invented the microcomputer over two decades ago. It only makes sense that our Home Computer leads the way by bringing a piece of the future here today.





“The Home Computer is as easy as I, II, III, IV.”

The four levels of computer literacy and you.

Computer literacy sounds like a term for something complicated, but it's not. It's just a way of measuring how familiar people are with using computers. At Texas Instruments, we look at it this way. There are four levels of computer literacy and it doesn't take long for someone to move from one level to the next, especially with the Texas Instruments Home Computer. It's designed to make each level the easiest possible. Using the Home Computer is so easy, in fact, it's actually fun.

I. At Level I all you need to know is how to turn on your Home Computer and plug in the program cartridge of your choice. Whether it is a game, home budget or educational program, you just plug one of our more than 50 cartridges into your Home Computer console and the program will give you step-by-step cues for putting the Home Computer's power to work for you.

II. At Level I you discovered that using a computer wasn't so complicated after all. Now at Level II you're ready to expand your horizons and the Home Computer is ready to expand right along with you.

Now you're ready to take advantage of the literally hundreds of existing programs on disks or cassettes from a variety of sources all across the country. With the Home Computer all you need to add is a disk drive or cassette recorder. You just plug the disk drive or cassette recorder into the Home Computer's console and you are ready to use TI BASIC programs stored on them. Add the Peripheral Expansion System and the P-Code

accessory and your Home Computer becomes even more versatile.

With the P-Code card, your Home Computer now understands UCSD Pascal*, and can run today's large selection of Pascal based programs.

III. At Level III, your Home Computer puts a world of information at your finger tips: weather forecasts, Dow Jones reports, employment opportunities, business news, program cataloging. The list goes on and on and the information is just the push of a button away. All you need is the RS 232 Interface, the Terminal Emulator II Command Cartridge, and the Telephone Coupler and your Home Computer is ready to draw on over 1,000 information and communication services.

At Level III, you can do more than receive information. You can make hotel and flight reservations, enjoy the ease of electronic shopping and even communicate with other Home Computer owners directly across the country. For more information on the continually growing opportunities open to you in Level III be sure to read page 15.

IV. Level IV is where people are able to write their own programs and the Home Computer makes even Level IV easy. Unlike other family-use computers, the Home

Computer has TI BASIC built in so you can begin programming right away. And there's more. The Home Computer also runs on TI Extended BASIC, UCSD Pascal*, TI PILOT, TI LOGO II and TMS 9900 Micro-Processor Assembly Language. The Home Computer is designed to be versatile and fully expandable—and more languages are on the way! A compact housing called the Peripheral Expansion System (see p. 5) allows the capabilities of your Home Computer to be expanded easily by just plugging in the appropriate peripheral.

So no matter what level you're at today or tomorrow, the Texas Instruments Home Computer makes them all as easy as I, II, III, IV.

*UCSD Pascal is a trademark of the Regents of the University of California.



"The Home Computer is as simple or as sophisticated as you make it."

The TI Home Computer lets you purchase as much or as little equipment as your family needs. In fact, you can start with just the console and your own TV. That's all! With only these pieces your Home Computer is ready to teach, to entertain, and to handle any one of dozens of TI's exclusive Solid State Software™ Command Cartridges for everything from the Car Wars game to Tax Investment Record Keeping.

Then as your needs grow, the Home Computer can grow with you. You just add on the equipment you need, when you need it.



The TI Home Computer

This is where you start—with the sleek, compact console. The console contains the brain of the TI-99/4A Home Computer—a powerful TI 9900 microprocessor.

The console is as easy to operate as it is good looking. Unlike other home computers, the TI Home Computer has TI BASIC built in. So you're ready to start

using existing programs, or writing your own from the moment you turn the console on. There's nothing else to buy.

The TI Home Computer can also be programmed to include 16 colors, numerous sound effects, five realistic musical octaves with three part harmony and Solid State Speech™ within the same program. That's pretty impressive.



The Video Monitor—

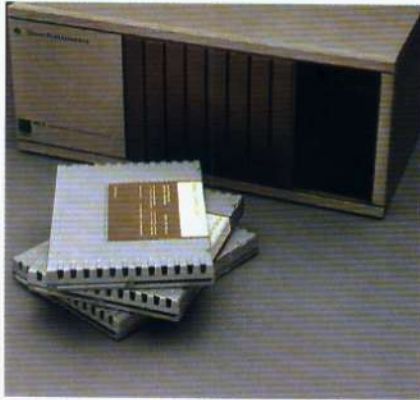
With the TI Home Computer you can use your own TV or take advantage of special features of our Video Monitor. Our 10" Video Monitor was designed to handle the Home Computer's wide range of graphic and musical capabilities with a sharp, bright color picture and clean, clear sound.

The Speech Synthesizer

The Solid State Speech™ Synthesizer reproduces human speech electronically, accurately and realistically with a variety of inflections and appropriate pitch. The synthesizer plugs directly into the Home Computer's built-in connectors without external cables.

For children too young to read the screen, the Speech Synthesizer is ideal since it allows the computer to "talk" to the children.

The Speech Synthesizer requires either the Speech Editor, Terminal Emulator II Command Cartridge or other customized Command Cartridges that use speech (sold separately). The Terminal Emulator II package provides unlimited text-to-speech capability which allows you to listen to data base information or have the computer say anything within your own program.



The Peripheral Expansion System

The Peripheral Expansion System is the easy, convenient, compact and economical way for you to expand your Home Computer's capabilities.

Measuring just 7½" x 12" x 18", The Peripheral Expansion System is capable of housing up to seven peripherals for the Home Computer without extra cables or clutter. You simply plug the appropriate card into the system to add the function you need. For instance, when you plug the new *P-Code card* into the system you add UCSD Pascal and TI PILOT language capabilities to your computer (requires Memory

Expansion and Disk Drive for development). Plug in the *Memory Expansion Card* and you add 32K bytes of Random Access Memory (RAM). The *RS 232 Interface* is available on a simple plug-in card as well. This interface allows your Home Computer to transmit and receive data over phone lines (with the addition of The Telephone Coupler) and provides a cost-saving parallel port for printers. The *Disk Drive Controller* card has all the capabilities necessary to add up to three of TI's Disk Drives to your Home Computer.

The Peripheral Expansion System even provides space for installing one TI Disk Drive within the enclosure.

The TI Impact Printer

This quiet, high performance and low cost impact printer features 80 characters per second bidirectional printing, three type sizes and four distinct printing densities. The TI Impact Printer also features a long-life 9x9 dot matrix print/head that's easily replaced for fast repairs. The printer can handle 40, 66, 80 and 132 column widths and can print text or graphic data.

The TI Impact Printer requires an RS232 Interface.





The Telephone Coupler

Lets you send and receive messages, data and even entire programs with your own home phone. You just place your telephone receiver in the coupler cradle and you can communicate with similarly equipped computers at remote locations, and access data bases and such software services as TEXNETSM Information Service, THE SOURCESM, and the Dow Jones News/Retrieval Services (See p. 15).

Requires the RS232 Interface and Terminal Emulator II packages.

The Disk Memory System

The Disk Memory System stores additional information that you wish to keep and refer to at a later time. Consisting of the TI Disk Drive Controller and from 1 to 3 Disk Memory Drives, the Disk Memory System handles variable length records, as well as sequential and relative files. With the system, free disk space is automatically reassigned for file allocation.

The System comes with a pre-programmed Command Cartridge that supplies all disk utilities and file maintenance commands. Up to 90,000 characters of information may be stored on each diskette.



The Wired Remote Controllers

The Wired Remote Controllers are for fun and games. They let you maneuver objects on the screen. Each unit features an eight-position remote control with side-mounted action button. These "joysticks" are important accessories for TI's fast action games.

The Mini Memory Solid State Software™ Command Cartridge

Now you can increase the versatility of your Home Computer with the Mini Memory Command Cartridge. The cartridge provides additional memory for your system as well as important tools for program development. The cartridge contains a built-in battery so you can store data or programs you have written in TI BASIC or Assembly Language in the cartridge's Random Access Memory (RAM). This information is retained even when the computer console is turned off, or when the cartridge is removed.

The Mini Memory module contains a total of 14K bytes of memory. This memory consists of 6K bytes of Graphics Read Only Memory (GROM), 4K bytes of Read Only Memory (ROM), and the 4K bytes of RAM.



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The Home Computer's product features

99/4A Console: 9900 family CPU, 16 bit microprocessor, 16K bytes for RAM (expandable to 52K) 26K bytes of internal ROM, up to 30K bytes of external ROM, (Solid State Software™ Command Cartridges), total combined memory: 76K bytes. Typewriter style keyboard, sound features 3 simultaneous tones from 110 HZ to 40,000 HZ, video resolution: 256 x 192 upper and lower case capability, single line overlay for second function. Control key and function key. Graphics in 16 colors with 4 modes and sprites, power 60 HZ, 20W, 110V.

Solid State Speech™ Synthesizer:

Resident vocabulary of over 300 words (with use of Speech Editor Solid State Software™ Command Cartridge or Pascal, unlimited vocabulary with Terminal Emulator II.

Disk memory drive and controller:

Utilizes single-sided, single density floppy disk, 1 to 3 disk memory drive capability, store up to 90,000 bytes of information and define up to 127 files on each diskette. (Note: disk controller has capability to operate double sided disk drives.)

Memory Expansion: Adds 32K bytes of random access memory to the Home Computer's console. (TI Extended BASIC, P-Code Peripheral Editor Assembler, Mini-Ram, or TI LOGO required)

RS-232 interface: Baud rates up to 9600, all parameters software programmable, two bi-directional serial ports (EIA RS-232C standard)

RS-232 card includes Centronics compatible parallel port.

Telephone Coupler Modem: Data rate: 0-300 BPS. EIA RS-232C, Bell 103 compatible.

RAM Expansion: 32K bytes of Random Access Memory.

80 column printer: Speed of 80 characters per second, 9 x 9 dot matrix printhead, 40, 66, 80, and 132 column printing, programmable lines spacing, vertical and horizontal tabulation, and a programmable buzzer, both normal and real density graphic modes.

Compare the TI-99/4A Home Computer for yourself.

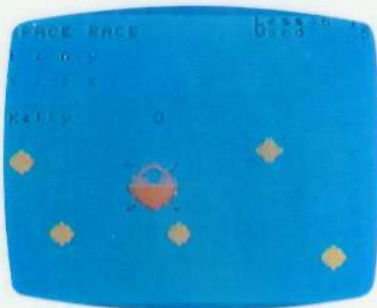
	TI 99/4A	APPLE II PLUS	IBM PERSONAL COMPUTER	ATARI 400	COMMODORE VIC-20	TRS 80 COLOR COMPUTER
Memory Size	16K	16K	16K	16K	5K	4K
Typewriter Style Standard Keyboard	Yes	Yes	Yes	No (Mylar)	Yes	No (Calculator Style)
Basic Language Built In	Yes	Yes	Yes	No	Yes	Yes
Color Graphics	Yes	Yes	Yes	Yes	Yes	Yes
Animated Graphics	Yes	No	No	Yes	No	No
Music	Yes	Optional	Yes	Yes	Yes	Limited
Solid State Speech Capability	Yes	No	No	No	No	No
Display Size (Characters x Rows)	32 or 40x24	40x24	40x24	40x24	23x22	32x16
Solid State Software	50 +	No	No	- 15	- 15	- 27
Expandability:						
Maximum Memory	52K	64K	256K	16K	32K	32K
Disk Drives	Yes 1-3	Yes 1-2	Yes 1-2	No	Yes 1-5	Yes 1
Communications (RS 232)	Yes	Yes	Yes	Yes	Yes	Yes
Printer Port	Yes	Yes	Yes	Yes	Yes	Yes
Programming Languages BASIC	Ansi Standard	MicroSoft	MicroSoft	Atari	MicroSoft	Tandy
Pascal	Yes	Yes	Yes	No	No	No
Assembly Language	Yes	Yes	Yes	Yes	Yes	No
Processor	16 Bits	8 Bits	16 Bits	8 Bits	8 Bits	8 Bits
Word Processing	4082	Yes	Yes	No	Yes	Yes
Cassette Interface	Yes	Yes	Yes	Yes	Yes	Yes
Logo	TI Logo	Apple Logo	No	No	No	No
Electronic Spreadsheet	Freeform	VisiCalc	VisiCalc	No	No	No



"The TI Home Computer programs make learning so easy it's fun."

Choose from TI's large library of pre-programmed cassettes, disks or TI's exclusive Solid State Software™ Command Cartridges and show your family how easy and fun learning can be.

Education



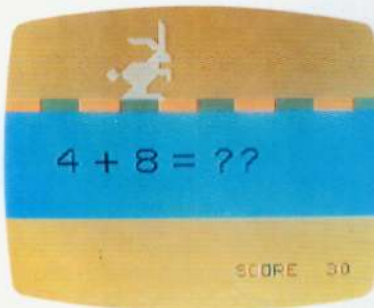
Scholastic Spelling

Individual programs for 4 different student levels contain exercises and lessons to develop spelling proficiency. Each level offers 36 lessons and three spelling games with 16 or more spelling words in each lesson. Speech Synthesizer is required.



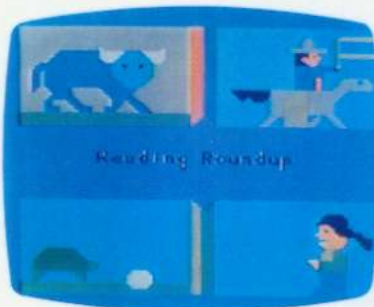
Reading Fun:

Developed in conjunction with respected educational publisher Scott, Foresman and Co., four stories and three practice drills with color graphics and speaking aids help grades 1-3 level readers build vocabulary and reading skills. Speech Synthesizer is recommended.



Number Magic

Full color graphics and sound provide exciting drills and practice in math basics. Fun and learning in the style of the popular TI Little Professor™ and Dataman™ learning aids for ages 6 and up.



Reading Round Up:

Three stories teach 4th grade level readers idioms, figures of speech and work meanings in context. A wrap up "treasure hunt" story reviews all three new skills. Speech Synthesizer is recommended.



Beginning Grammar

Color graphics and games provide a fun introduction to the basics of speech and how they are used to build sentences for grades 2-5.



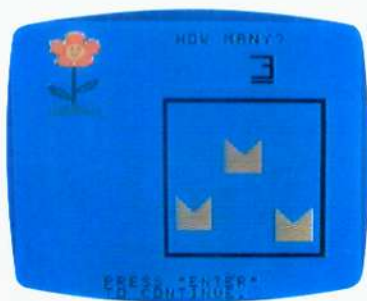
Reading Flight

For 6th grade level readers, three stories with special exercises to teach summarizing, classifying and outlining reading skills. Speech Synthesizer is optional.



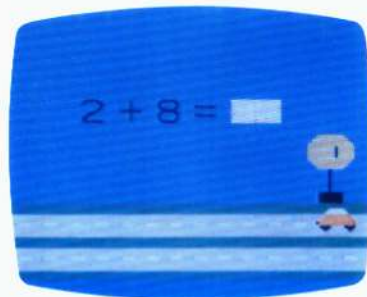
Computer Math Games II

Developed by leading educational publisher Addison Wesley, this cartridge offers challenging math games for grades 1 thru 9.



Milliken Math

Eight Command Cartridges provide drill and practice for grades 1 thru 8 on math basics in Addition, Subtraction, Multiplication, Division, Integers, Fractions, Decimals, and Percents.



Addition/Subtraction 2

Developed in conjunction with Scott, Foresman and Company, this program goes beyond the original addition/subtraction to teach more difficult problems and arithmetic techniques to grade levels 1-2.



Early Learning Fun

Colorful, exciting and educational activities help teach shape, numbers and letter recognition, counting, sorting and the alphabet. For ages 3-6.



Early Reading

Color graphics and computer speech introduce and reinforce beginning reading skills. Developed in conjunction with Scott, Foresman and Company. Speech Synthesizer is required.



MECC Volumes

These eleven disk-based programs developed by the Minnesota Educational Computing Consortium include valuable math and science exercises for grades 1-8. Titles include: Metric and Counting, Elementary Economics, Elementary Math & Science, Astronomy, Word Beginnings, Exploring, Math Practice, Science Facts, Natural Science, Social Science and Teacher's Tool Box.



Touch Typing:

This program not only teaches touch typing on the Home Computer keyboard, but also measures and improves typing speed and selects appropriate exercises for work in each typist's work areas.

Home Management/ Personal Finance



Personal Real Estate

Evaluate potential real estate investments with this helpful cartridge. A valuable educational tool, Personal Real Estate closely follows techniques used by the Realtors National Marketing Institute. Excellent for real estate agents and investors. Data storage system is recommended.



Home Financial Decisions

A valuable, step-by-step guide to help answer your everyday financial questions. Helps you make informed decisions regarding general loans, home and car buying, personal savings, leasing vs. buying and much more.



Household Budget Management

Helps set budget guidelines, track income and expenses, spot problem areas and keep easily accessible records. With this cartridge you can set up a budget system to coordinate your income and expenses for the coming year—month by month, category by category and you can compare your actual income and expenses with projected figures to spot problem areas. Data storage system is recommended.



Securities Analysis

An excellent package for brokers and serious investors. This cartridge offers a variety of securities analysis techniques and important financial tools such as stock analysis, call options, option spreads, bond analysis, calculations of compound interest, annuities and variable cash flow.



Personal Record Keeping

Allows you to create, maintain and utilize a computer-based filing system that is useful and convenient for a variety of applications—including home inventory for insurance purposes, car maintenance records, medical and dental records, and a complete reference medium for birthdays, anniversaries and other important occasions. Data storage system is recommended.



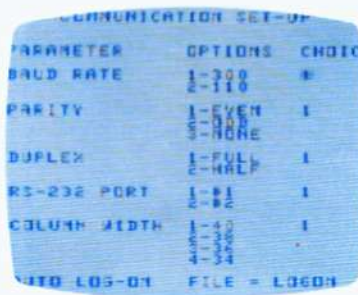
Tax/Investment Record Keeping

Provides an aid for organizing and recording your tax and investment data in a single, flexible filing system. Helps you keep track of assets, liabilities, income and expenses. Records both your taxable and tax-exempt income, tax deductible expenses and even helps determine your net worth. A great time-saving tool for tax time! Disk drive is required.



The Personal Report Generator

Even without programming experience or special training, you can use the Personal Report Generator to create personalized form letters, address labels, tables of results, a personal calendar and a personal telephone directory. The Personal Report Generator makes it easy to design and test report formats, modify formats and even save them for use with other data files. Adding items, deleting items and combining two compatible files are also a snap with the Personal Report Generator. Requires Personal Record Keeping or Statistics Command Cartridge.



Terminal Emulator II

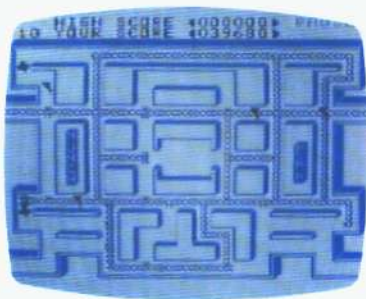
Links your Home Computer to the telecommunications world, accessing subscription data services (like TEXNETSM/THE SOURCESM and Dow Jones News/Retrieval Services) and time-shared computer systems. File transfers with error definition, improved keyboard interface; ability to handle color, speech sound and graphics; and access of text-to-speech from user-written programs are just few of the features included.

Aardvark Tax Planning

Designed by a group of experienced CPA's for the home user, this Pascal based program performs comprehensive, tedious tax planning calculations within seconds. The program allows you to input a variety of income and expense items and to isolate the tax effects of changes in one or more of these variables instantly. With Aardvark, you'll be able to define your tax liability for the current year (using appropriate tax tables or rate schedules, income averaging, maximum and tax on earned income), two-earner married couple deductions, capital gain deductions and much more. Requires Memory Expansion (32K RAM), Disk Drive Controller, one or more Disk Drives, and the Pascal P-Code peripheral.

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Home Entertainment



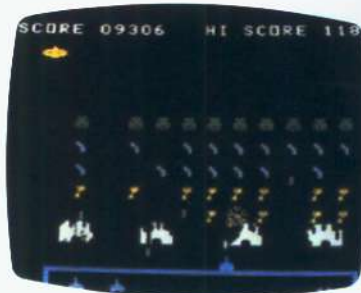
Munch Man

A one player game that challenges you to out-manuever cunning hoonos connecting maze passages with a chain before the hoonos devour your Munch Man. Fun for all ages.



Adventure

Play 10 exciting Scott Adams Adventure games with the Adventure Command Cartridge. Pirate Adventure comes free with the cartridge. 9 additional games are available in cassette or diskette versions.



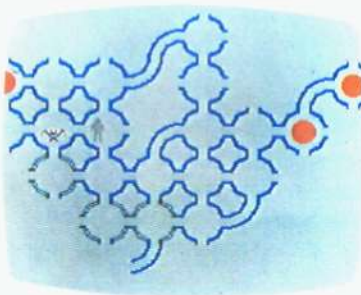
TI Invaders

Your world is attacked by a hostile horde. You have to destroy them with your missiles, if you're fast enough, in this popular TI game.



Chisholm Trail

Ride this Chisholm Trail and you'll be challenged to move steers while fighting BRAND monsters and our special monster called the WRANGLER.



Hunt the Wumpus

Seek the lair of the Wumpus through an exciting maze of caverns, tunnels and perils. It's fun for everyone in the family.



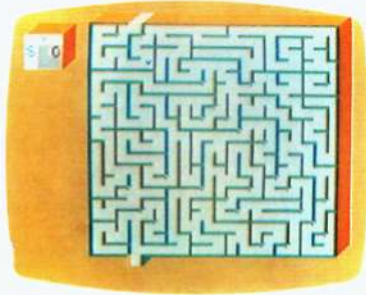
Tunnels of Doom

Fight countless monsters, gather treasure and enter a world of fantasy where your instincts and imagination determine your chances of survival. To play you need, the Tunnels of Doom Command Cartridge and the cassette-or-diskette-based game. Tunnels of Doom Command Cartridge includes two games: *Quest of the King* and *Pennies and Prizes*.



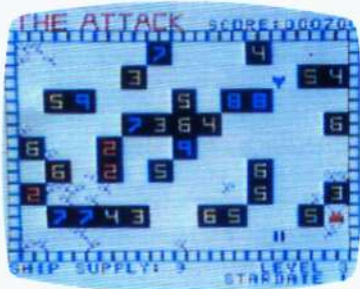
Parsec

Battle alien attack ships and avoid ground missiles as you pilot your space ship through an exciting series of landings, refueling, and space travel maneuvers. Parsec will function only on the TI-99/4A console.



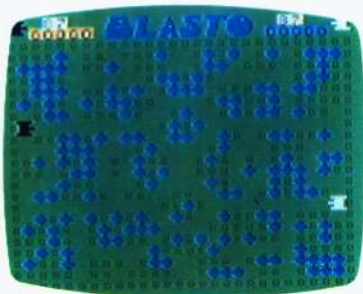
A-Maze-Ing

13 different maze games provide many hours of fun and excitement for the entire family.



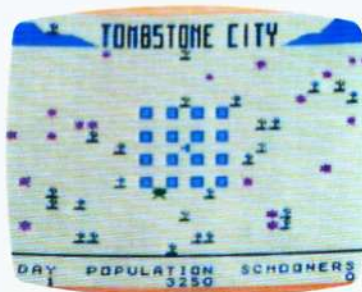
The Attack*

Maneuvering a space ship, firing missiles, fighting off "spores" and "aliens," it's an exciting challenge for any family member.



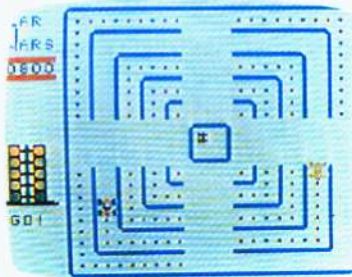
Blasto*

This fast-paced game challenges one or two players, 10 years old or over, to destroy a field of mines while avoiding opponent fire.



Tombstone City: 21st Century

A fight for one player against an invading horde of green alien morks in an Old West ghost town.



Car Wars

The excitement of high speed racing is combined with the challenge of getting a car around the track without getting "crashed" off the field.



Indoor Soccer

Computer version of fast-paced five-on-a-side soccer. Exciting game for two players—you can even watch a slow motion instant replay of each score.

*trademark of Milton Bradley Co.



"It's a great idea: software albums from the people who wrote the book."

TI even makes it easy for you when it comes to software with ten TI software albums. Now in ten different subject areas you can purchase two or three program cartridges together. You get programs that are designed to complement each other and cover a field. To help keep you organized too, the programs come in their own attractive easy-to-store binder. In addition, the albums save you money by allowing you to buy the programs together.



The Home Financial Manager

This album can help your family with financial planning, major purchase decisions, investments, loans and savings. The three Solid State Software™ Command cartridges include: Home Financial Decisions, Household Budget Management and Personal Real Estate.

The Family Entertainer

The whole family will enjoy hours of entertainment with The Family Entertainer. It includes three exciting game program cartridges: The Attack*, A-MAZE-ING, and Hunt the Wumpus.

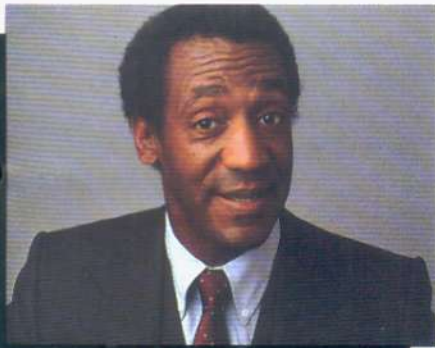
The Elementary Educator

The three cartridges in this album help reinforce language or mathematics skills while also helping your child become more familiar with using a computer. Early Learning Fun is geared for the pre-school child; Addition and Subtraction 1 is for grades K through 2 and Beginning Grammar is for grades 2 and up. All three cartridges combine music and full color graphics.

And there are seven more libraries to choose from, including:

**The Music Educator,
The Super Programmer,
The Speaking Math Teacher,
The TI Arcade Game Series,
The Computer Introductory Package,
The Speaking Scholastic Teacher and
The Speaking Reader Teacher.**

*Trademark of the Milton Bradley Company



"There's a world of information out there and it's all at your fingertips."

With your Texas Instruments Home Computer, you can have the world report to you—on current events, market analyses, travel suggestions, sport scores, international and domestic research data, flight availabilities, economic forecasts and on literally thousands of other subjects all right in your own home.

It's easy. Because with your TI Home Computer you can tie into the entire TEXNETSM Information Service right over your own home phone line.

The TEXNETSM Information Service is a special edition of THE SOURCESM, an on-line computer information and communication service developed by the nation's oldest and one of the country's leading information utilities: Source Telecomputing Corporation. With TEXNETSM you have access to THE SOURCE'SSM more than 1,200 services as well as a number of specific services developed exclusively for

TI Home Computer owners and TEXNETSM subscribers.

All you need to subscribe to TEXNETSM is an RS232 Interface, the Terminal Emulator II Command Cartridge, and TI Telephone Coupler; then your TI Home Computer is ready to access valuable TEXNETSM programs and services.

THE SOURCESM services cover such areas as Electronic Shopping, Trading and Bartering, Financial Market News, Tax Information, Airline Schedules and Reservations, Electronic Mail, Home and Leisure Time Information, Law News, Washington D.C. activities, Career Information, Statistics, Dining Guides, Movie Reviews, and much, much more!

Plus there are special TEXNETSM features which include a TI Software Exchange for hundreds of free programs, a TI Music and Sound Library, TI Graphics Library, TI Software Directory... and so much more.

And it's all yours for a low one-

time subscription fee. From then on you simply pay for the actual time you use the TEXNETSM Information Service. It's just pennies per minute for one of the most valuable tools you could have for business, home management, school reports or just plain fun.

In addition to the TEXNETSM Information Service, TI Home Computer owners can also subscribe to the Dow Jones News/Retrieval Service. The Dow Jones service includes Data Bases in such important areas as:

- *Corporate Earnings Estimator*—for consensus earnings forecasts for 2,400 of the most widely followed companies.
- *Disclosure Online*—for company profiles and 10-K extracts on over 6,000 companies.
- *Money Market Services*—for "weekly" economic survey from 40-50 of the nation's top financial institutions.
- *Historical Quotes*—for Common & Preferred Stocks, Warrants, Bonds, Mutual Funds, Treasury Issues and Options, with a minimum 15 minute delay during market hours.

The Dow Jones service also provides general news, sports and weather reporting as well as numerous other financial research and news services.

With the TI Home Computer you really do have a world of information at your fingertips. For the details on the TEXNETSM Information Service, call (800) 336-3330. Or for information on the Dow Jones News/Retrieval Services, call (800) 257-5114.



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"From your first program to your hundred and first... The Home Computer speaks your language."

Whether you want to take advantage of a variety of existing programs, to learn how to program, or to develop sophisticated programs of your own, the Home Computer can meet your needs from start to finish.

The TI Home Computer is currently capable of handling six different languages and meeting any number of your needs.

TI BASIC

With your TI Home Computer you have the advantage of TI BASIC built right in. With other systems it's not; you have to pay extra for it, and you have the bother of having to load it into the machine each time you need it. Not so with The Home Computer. The Home Computer saves you time and money right from the start.

With TI BASIC you receive a rich, versatile programming language designed to make programming easy for you. You can apply it to the most demanding problems because it's powerful and accurate, yet it's one of the easiest programs to learn.

TI BASIC features include:

- dynamic string variables up to 255 characters
- three dimensional arrays of numbers and strings
- in-line editing with programs
- re-numbering capability
- variable names up to 15 characters
- English language error message
- full standard 64 character set provided as default
- powerful program debugging features—break points and trace



TI EXTENDED BASIC

TI Extended BASIC offers the same versatility, accuracy and ease of operation as TI BASIC.

Additionally, this more powerful programming language gives your Home Computer a number of important capabilities such as:

- More than 40 new or expanded commands, statements, functions and subprograms.
 - Multiple-statement lines for speed and efficiency.
 - User-written subprogram capability.
 - The ability to load and run one program from another (chaining).
 - Improved error handling.
 - Arrays up to seven dimensions.
- To name a few.

TI LOGO II

Like its popular, pioneering forerunner, TI LOGO, TI LOGO II is an ideal computer language for children and students of all levels of ability. Even children as young as 4 find TI LOGO II an exceptionally easy to understand language that actually makes learning fun.

TI LOGO II uses a step-by-step discovery method of learning that encourages the student to participate and even to gain control over the learning experience. In the immediate or programmable mode, the language helps the student to develop spelling and communication skills and sequential thinking through line drawings (turtle graphics) or animated graphics (sprites).

The student can control the sprites' shape, color, speed, directional heading and position on an x/y coordinate. The student can even control up to 32 sprites individually or in groups. The turtle graphics give the student control over the distance of lines forward or backward, right/left or 360 degree turns and gives the ability to move without drawing a line. The student can change the lines, sprites and background to any of 16 colors while participating in the many LOGO II based learning exercises.

Unlike TI LOGO, the new and expanded TI LOGO II includes:

- music with three voices and one

noise generator.

- 5 predefined sprite shapes in the language—plus the option of student-defined sprite shapes.
- twice the user memory space.
- ability to address a printer through an RS 232 interface.

Even though TI LOGO II commands are simple English words that small children can understand easily, the language also incorporates many sophisticated programming features such as subprograms, looping, condition statements and recursion.

TI LOGO II requires the TI Memory Expansion unit.



UCSD Pascal* Version IV.0

UCSD Pascal is a highly structured efficient programming language that is faster, more logical, and substantially more powerful than TI BASIC.

With UCSD Pascal you can write more efficient programs on your Home Computer and you can take advantage of the many existing UCSD Pascal Programs with little, if any, modification.

To run the UCSD p-System* programs, TMS 9900 Assembly Language program which uses the p-System or Pascal requires the Peripheral Expansion System, Memory Expansion card and the P-Code card. Additionally, development of the p-System software requires the disk controller, at least one disk drive, and the applicable diskette software packages.

TMS 9900 Microprocessor Assembly Language

With the aid of the Editor/Assembler Command Cartridge, the UCSD p-System Assembler/Linker diskette, or the TI Mini Memory Command Cartridge, you can write programs in the powerful assembly language of the TMS 9900 microprocessor in your Home Computer. TMS 9900 Assembly Language is the fastest, most efficient language you can write in for the Home Computer because it "speaks" directly to the computer on the machine level. Communicating on the machine level gives you complete access to all system features, such as sound, speech, graphics, and I/O, as well as providing the highest speed possible for the Home Computer's 16-bit microprocessor. Your Assembly programs can be

written to run in conjunction with TI BASIC, TI Extended BASIC, and Pascal programs, or as Stand-Alone applications.

You can write, link and run TMS 9900 Assembly Language programs and routines by using the line-by-line Assembler included on cassette with the TI Mini Memory Command Cartridge. Other peripheral are supported but not necessary with the Mini Memory Assembler.

The TMS 9900 Microprocessor Editor/Assembly Command Cartridge requires—the Peripheral Expansion System, the TI Memory Expansion Card, and the TI Disk Memory System with at least one Disk Drive. Also available is a diskette containing the Assembler/Linker for the UCSD p-System.

TI PILOT

TI PILOT is an easy to use language for developing and using Computer Assisted Instruction (CAI) lessons. For use by educators, TI PILOT is ideal for developing quizzes and other course exercises in a wide variety of subject areas.

Designed by CAI specialists specifically for use with the TI Home Computer, TI PILOT enables the programmer to have access to the Home Computer's unique instructional aids such as sprites, sound effects, and color graphics.

TI PILOT requires the Memory Expansion Unit, the P-Code card, and the Disk Controller, and one or more disk drives.

*UCSD Pascal and UCSD p-System are trademarks of the Regents of the University of California.



THE Home Computer.

It's all here... all you could need in a home computer system. The TI-99/4A Home Computer is the most advanced, most versatile home computer on the market today.

Family fun, home management help and valuable learning exercises can all be right at your finger tips with the Home Computer. All the power and capability you'll need is here... from the finest color graphics anywhere to the wonder of synthesized speech.

The TI Home Computer has it all, including easy operation. It's simple to use right from the start. With the very first push of a button, you'll have *the* Home Computer working for you.





**"The Home Computer
is just one part of
TI's amazing family of
electronic products."**



**Texas Instruments educational
products make learning what it
should be...Fun!**

These are the products that began a revolution in education for children—learning aids that make learning and practicing the basics an experience to look forward to. An experience that will last for a lifetime.

TI talking learning aids speak with a warm, synthesized voice, rewarding, prompting and encouraging children to learn. They teach spelling, reading, math, and even subjects for preschoolers.

Our learning aids provide the kind of excitement and motivation that keep children intrigued and challenged—with drills, quizzes and learning games that are educational...and fun.

**Anything you do with numbers,
Texas Instruments can help
you do better.**

There's a Texas Instruments calculator for almost every situation numbers can get you into...for doing simple calculations at home, in the office, or at the store...for doing the home budget or breezing through tax returns...for solving complex mathematical and scientific formulas...even for keeping track of your day, or the fuel efficiency of your car.

In fact, no one offers a wider line of calculators than we do. For all the numbers in your life, there's a TI calculator ready with an answer.



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