

Creative Micro Designs

Orders: 1-800-638-3263 Fax: 1-413-525-0147

Info & Support: 1-413-525-0023

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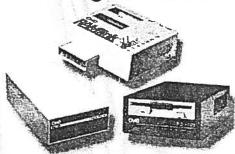
4/15/96





JiffyDOS

Storage Devices





Accelerators

Telecommunications







Productivity and Games

C64/C128 PRODUCT CATALOG '96

CMD's SUPERCPU Accelerators

20 Mhz Speed for the C-64 and C-128

5,0221

SuperCPU offers unparalleled speed with 20 Mhz models for both the C-64 and C-128 (both modes). Built-in JiffyDOS Kemai helps your computer and equipped drives to keep up with its new found speed!

Somewhell !!

SuperCPU promises to offer the highest level of compatibility with commercial software possible.

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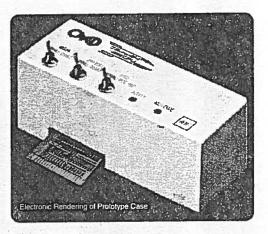
SuperCPU requires no special knowledge or technical ability to operate. Just plug it in and watch your computer take off.

PROGRAMMABILITY

The SuperCPU's 20 Mhz microprocessor handles up to 16 MB of system memory, features 16 bit registers and offers full 6502, 6510 and 8502 compatibility. These features make it easy to modify and/or create software that is more sophisticated and faster than ever before!

What is the SuperCPU?

The Super 64 CPU is an accelerator module that speeds up the operation of your C-64/128 computer by Introducing a modern high speed microprocessor to your C-64 or C-128 computer. It plugs directly into the cartridge port, and gives your computer the extra horsepower it has always needed for faster number crunching. What does this mean in layman's terms: Smooth scrolling in Word Processors, faster screen updating in all programs, faster calculations in spreadsheets, faster printing and limitless possibilities if you enjoy programming. In short, it will enhance virtually every facet of computing! Now, with all of this new found speed, your disk drives will need to keep up with the computer. We've though about that too and built-in the computer portion of JiffyDOS (CMD's disk speed enhancement speed). If you are unlamiliar with JiffyDOS It is a two chip system for the computer and disk drive(s) (See details later in this catalog. If you don't already have JiffyDOS you need only add the disk drive chip(s) to complete JiffyDOS system. At the heart of the SuperCPU is the W65C816S microprocessor running at 20 MHz and a CPLD (Complex Programmable Logic Device IC) which contains the custom logic required to mimic the characteristics of the C-64 or C-128 (Both modes). The C-64 version also contains 128K Bytes of high-speed Static RAM (the same type of high-speed cache memory found in 486/Pentium systems), and 64K Bytes of ROM. The 128 version will include additional RAM, ROM and custom logic to allow it to operate in both 64 and 128 modes. Unfortunately CP/M will not be supported by the SuperCPU.



Installation .

Installing the SuperCPU 64 is simple: just plug it into the Cartridge port. No additional winng, jumpers or ugly cables need to be installed inside of the computer. (The C-128 version may, however, require a jumper clip.)

Physical Characteristics

The SuperCPU is contained within an enclosure that measures approximately 6" wide by 3" high and 2" deep. The enclosure has an opening for the Cartridge Port Pass-Thru connector at the rear, precisely in line with the computer's Cartridge Port. The unit is about the same width as a RAMLink or Commodore REU. The main circuit board inside the SuperCPU mounts vertically, keeping the depth of the unit to a minimum. This helps to prevent devices plugged Into the pass-thru port from extending too far back from the computer. Three easy-to-use toggle switches line the upper front edge of the unit a Master Enable/Disable switch, a JiffyDOS Enable/Disable switch, and a Speed selection switch. Also Included is a built-in reset switch and Speed Indicator LED.

Operation

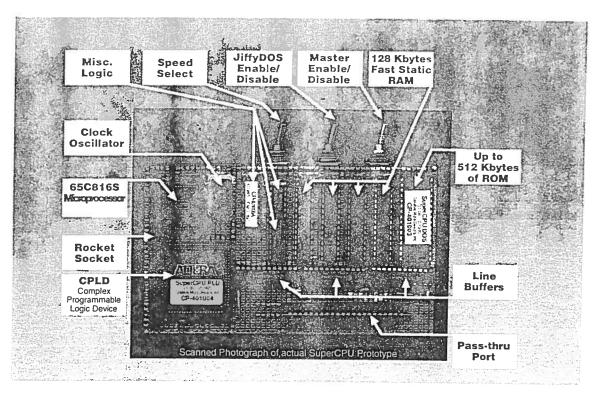
Operating the SuperCPU requires no special knowledge. It is basically transparent and allows you to operate the C-64/128 in the same manner as you always have, with only one exception — the benefit of greatly accelerated speed. Even programmers will have little to change to remain compatible. Other than an adjustment to any timing loops or removal of illegal opcodes nothing needs to change. But chances are

that you will many new registers switches cleasily accompanying to determine RAMLink, designed in C-64 or 128 adjustment

Comp.

The Superi and C-64c 128/128-D i supports a opcodes, a very high I existing soft is emulated proprietary 1 ensures full graphic mod REU's: The (includes spe provide 100% of data transfe REU's. The slowed down a DMA transfe

CMD Catalor



that you will want to take advantage of the many new additions: extra RAM, additional registers and much more. The toggle switches on the unit are clearly labeled, easily accessible, and can be used without having to refer to a manual in order to determine their function. As with CMD's RAMLink, the SuperCPU has been designed to work out-of-the-box with any C-64 or 128 computer—no manual "tuning" adjustments will be required.

Compatibility

The SuperCPU 64 operates with C-64 and C-64c computers as well as the C-128/128-D in 64 mode. The W65C816S supports all legal 6502/6510/8502 opcodes, and will therefore provide a very high level of compatibility with existing software. The C-64 memory map is emulated exactly by the CPLD, and proprietary write-thru logic in this chip ensures full compatibility with all VIC graphic modes and memory mapping.

REU's: The CPLD chip in the SuperCPU includes special DMA transfer logic to provide 100% compatibility with all types of data transfers to and from Commodore REU's. The unit does not have to be slowed down to 1 MHz in order to initiate a DMA transfer to and from the REU.

RAMLink: The Super CPU is compatible with RAMLink, and contains its own version of RL-DOS, which runs from the SuperCPU's high-speed Static RAM. The faster RL-DOS, along with the efficiency of new 65C816S opcodes allows faster data transfers to and from RAMCard memory and also speeds up data transfers to/from CMD HD Series hard drives connected to the parallel port.

GEOS: Version 2.0 will be 100% compatible. Special software will be provided with the SuperCPU allowing GEOS to run at the full 20 Mhz speed.

Performance

To help achieve its high level of performance and to accommodate the 20 MHz speed, all operating system routines are downloaded into the Super CPU's 64K of high-speed Static RAM during power-up. This feature eliminates the bottleneck caused by ROM-based operating system code (on PC's, this technique is called ROM-BIOS shadowing). 64K of high-speed SRAM remains free for programs. Additionally, buffered write-thru circuitry (similar to PC cache controllers) eliminates the need to slow down when writing data into the computer. In preliminary lests, CMD has recorded speed increases as high as 22 times faster than a stock C-64 or 128(64

node).

Additional Features

Built-in JiffyDOS Kernal ROM: The computer portion of JiffyDOS is built into the SuperCPU, providing DOS-Wedge commands and enabling high-speed serial transfer rates to and from JiffyDOS-equipped disk drives. The JiffyDOS Enable/Disable switch is designed to function on the fly without disabling the accelerator itself.

Cartridge Port Pass-Thru: Enables the full use of most plug-in hardware devices such as REU's, RAMLink, SwiftLink, SID Cartridge, GEORAM, and some software cartridges. These devices will work while the accelerator is running at 20 MHz.

GEOS Software: Custom software to oplimize GEOS operation is provided. Additionally, an intelligent write-thru hardware circuit designed especially for GEOS effectively eliminates major performance bottlenecks associated with previous accelerator designs. Coupled with the 20 MHz clock speed, this feature will boost the performance of GEOS far beyond anything previously available.

Speed Selection: The speed selection switch provides two options: Slow (1 MHz) mode for compatibility with programs (such as some games) that may operate too quickly in the turbo mode; and Turbo mode

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Orders: 1-800-638-3263 Info: 1-413-525-0023

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(1 MHz) mode for compatibility with programs (such as some games) that may operate too quickly in the turbo mode; 2) a "soft" Turbo mode which operates at 20 MHz and provides programs with a software speed selection register for switching to Slow speed when necessary; and 3) a "forced" Turbo mode which keeps the CPU in 20 MHz mode regardless of the setting of the software register. This mode is useful for providing compatibility with existing programs that unintentionally alter the software register. (Note: The SuperCPU performs disk access functions properly in all modes.) Speed modes may be toggled while the SuperCPU is operating without quitting from a program.

Expansion Capabilities

The SuperCPU includes an internal connector (called the "Rocket Socket") which will enable the user to plug in a CMDsupplied RAM Expansion card similar to the RAMCard found in RAMLink, Each card will have 128K of RAM on-board plus SIMM sockets for an additional 1 to 16 Megabytes of Dynamic RAM (DRAM). The RAM on this card is for use as system memory. Even without the extra SIMM(s), the RAMCard gives programmers a full 192K for use in programs (Includes the 64K found on the SuperCPU motherboard) Simply put, this is like having a C-64 or C-128 with up to 16 MB's of internal system memory. This additional memory gives programmers the opportunity to push the Commodore further than ever before!

Developer Support

CMD is actively seeking developers who are willing to create new commercial software and/or modify existing software to take full advantage of the SuperCPU. A comprehensive developers package will be available. It will include an enhanced version of the Buddy Assembler which has been modified to fully support the SuperCPU. Also, extensive documentation provide pertinent technical specifications, guidelines, and sample code. This package helps developers to produce programs which take advantage of the 65C816S's enhanced instruction set, 16 MB addressing capability (for users with the optional SuperRAM Expansion Card), as well as other SuperCPU capabilities. Developers are encouraged to contact CMD for further details.

Programming Features

The microprocessor used in the SuperCPU has an internal 16 bit architecture and implements a host of new functions such as a speed register for controlling the processor's clock speed. An additional register controls the SuperCPU's WriteSmart™ function, which determines what areas of the SuperCPU memory are mirrored in the host computer. Applications utilizing this feature will greatly increase their performance.

Availability

Both versions of the SuperCPU are nearing completion at the time this is being written. The production of the SuperCPU-64 will

begin in mid-to-late May 1996 and its counterpart, the SuperCPU-128 should begin production within 90 days of the C-64 versions release.

CMD continues to accept advanced orders with a \$50.00 deposit for the SuperCPU-64. The \$50.00 deposit guarantees a maximum price of \$199.00.

A \$50.00 deposit for the SuperCPU-128 is also being accepted and will guarantee a maximum price of \$299.00.

Advanced orders being paid for by credit card will be billed \$50.00 upon receipt and the balance charged automatically shortly before your unit is ready for shipment. Deposits paid for by check or money order, must be paid in full before the unit is ready to ship.

In Closing

The SuperCPU promises to take Commodore users to a level that has never before been possible. However, it remains a work-in-progress, and as such will take a while longer before details are set-in-stone.

What we can tell you is that CMD is creating a powerful new engine for our computers. This product without doubt is the most significant advancement since the release of the Commodore itself.

For the most up to date information about the SuperCPU look to Commodore World Magazine and CMD's Worldwide Web page which is lound at http://www.the-spa.com/cmd/. Specific questions may be presented by mail or e-mail to cmd.sales @the-spa.com.

So what is the Super CPU in layman's terms?

So what is the Super CPU?

The super CPU is a cartridge port module that plugs into your C-64 or C-128 and provides your computer with all of the horsepower you need to keep pace with today's newer, faster (and more expensive) computers. Inside of the cartridge is a newer high-speed microprocessor which pushes your C-64/128 from 1 or 2 MHz to 20 MHz speed. That means that it can perform 20 million cycles per second instead of 1 or 2 million cycles per second instead of 1 or 2 million cycles per second instead of 1 or 2 million cycles per second in the pushes per second in the pushes at the power of the provided of the provided of the provided of the pushes per second in the pushes per second pushes per second in the pushes per second pushes p

The microprocessor in your computer is responsible for all of the mathematical calculations that are necessary to make your computer run. These calculations are responsible for functions as basic as calculating formulas within a spreadsheet, sorting lists in a database, updating the screen display and the execution of a program. As you can see, there is a huge benefit in performing these and other tasks at speeds 20 times greater than the stock system.

in addition to its processing capabilities, we have included the computer portion of the fifty DOS disk drive speed enhancement system. Jüly DOS enhances the speeds (up to 15 times) at which the computer and drives can communicate. Usually this requires replacing the Kernal ROM in the computer and the DOS chip in the disk drive. However, with the fifty FOS Kernal Leng built in to the SuperCPU, there is no longer a need to put fifty DOS in the computer—you need only swap the chip in your disk drives.) to complete the July FOS System.

Aside from its ability to speed up your existing software, the SuperCPU is geting to allow developers to write new software that will not only perform better but offer more and better features than ever before possible. Why? Because the chip in the SuperCPU has a native mode which has more programming capabilities and features plus the ability to access up to 16 megabytes of systemmemory. That means that a single program can occupy up to 16 MB's of RAM instead of just 64K or 128K (that's up to 256 times the system memory).

How can I benefit from using a SuperCPU7

The benefits of a 20 times speed increase can be more noticeable in some programs than in other programs. Those that benefit most would be:

BASICPrograms: The SuperCPU enhances all ItASIC programs even if they've been compiled. This clininates the need for special machine language routines (ML) to gain reasonable speeds and makes it easy for even a novice to achieve desirable results without having to learn ML.

BBS Programs: Since most BBSs are written in BASIC, the lenefits are obvious. Imagine low fast you can search message bases and user logs. Phisyour users will find the board to be much mover-type users. Couple the Superci Pluvitha RAM Link or Hard Drive and your users will swear you bought a 45% or Pentium.

GEOS: Pecause GEOS is a graphical program, it really su etches the capabilities of a 1-or 2-3d lb machine to the limit. The most noticeable improvement can be found when updating large areas of the screen, such as when you scoll through text in GEOWrite or when moving around in GEOPaint or GEOPublish. It is also great for enhancing the speed of your printing-expecially with Perfect Print I.Q. Experienced GEOS users wort find it difficult to imagine the bits they will experience when pages scroll nearly instantaneously, when spellchecking no longer takes forever and when printing is no longer a from both pages a consistency and then printing is no longer a fewer back in a 1/2 hour process. The Superful speeds up virtually every aspect of GEOS including disk acress

Spreadshests, Databases and Word Processors: Some of these programs are more gloring to the C64/1285 processor and will certainly benefit greatly from the new speed — faster spell checks, scrolling, calculations sorts and more. In fact, the SuperCPU may be a weight loss program—poince having a cup of coffice and your favorite pastry while you wait for a spell check, sort or calculation.

All of this power must be hard to use, right? Wrongl Remember, you are not buying a whole new computer. The Super-CPU is designed to merely speed up what you already have. You will continue to use your trusy C 64/128 in exactly the same fashion as before! We wouldn't dicaum of changing the way you use your Commodore. After all, you have stack with your Commodore because it is familiar and easy-to-use. Operation is simple... Simply plug it in, hold onto to your socks and get ready for the ride of your lite!





Why choo

CMD is here for you to each repair and of the problem are equipment than it you can rest assurare just a few rea

CMD offers full sicomputers. Our r which covers the f and/or labor beyi computers have b C-128/126-D com; charges for any c continental United.

JiffyDOS Installat 128-D drive selec

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CMD offers full sei 1541C, 1541-II, 157 minimum repair cha Additional charges w list ol standard repa performed at a reduc charges for any drive United States; addition

Device Select Switc Device Select Switc

CALL CMD F







1-800-638-3263

Why choose CMD's Service Center for repairs?

CMD is here for you. We are 100% committed to the Commodore market and we prove that every day! We bring over eight years experience to each repair and stand behind our work. You can count on CMD to not only repair your equipment, but also to make an honest assessment of the problem and provide you with the most cost effective solutions. There are times when it is less expensive to replace a piece of equipment than it is to repair it, and in those cases we will do just that. With our large inventory of reconditioned computers and drives, you can rest assured that you will be up and running in a short period of time. Reliability, honesty, quality service and top notch technicians are just a few reasons why CMD is the right choice for repairs!

COMPUTER SERVICES

Computer Repairs

CMD offers full service on all C-64, C-64C, C-128, C-128D and SX-64 computers. Our minimum repair charge is \$35.00 (\$50.00 for \$X-64) which covers the first hour of labor. Additional charges will apply for parts and/or labor beyond one hour. Average repair charge for C-64/64C computers have been approximately \$50.00. Average repair charge for C-128/128-D computers has been approximately \$70.00. Return shipping charges for any computer repair shall be \$7.00 to addresses in the continental United States; additional charges will apply to other addresses.

C-128 64K Video RAM Upgrade

CMD can upgrade your C-128 to 64K Video RAM without any messy piggyback boards or soldering. We will remove the old video RAM chips and replace them with higher capacity video RAM chips. Direct installation on the motherboard is the most reliable way to upgrade video RAM! Don't wait any longer to upgrade your C-128! Start using those new highpowered programs today!

C-128 64K VDC Upgrade

\$50.00

C-64/64C/C-128/128-D Special Services

JiffyDOS Installation (All computers / Includes Socket) 128-D drive select (8/9) or enable/disable switch

\$35.00 C64/64C Reset Switch Installation \$40.00

128-D drive select (8/9/10/11) & enable/disable switch

\$40.00 \$50.00

Prices do not include return shipping. Add \$7.00 (Continental US), \$12.00 (AK,HI,PR) Canada/Foreign Call

DISK DRIVE SERVICES

Disk Drive Repairs

CMD offers full service repairs for the following disk drives: 1541, 1541/71/81 Drive Alignment and Head Cleaning 1541C, 1541-II, 1571, 1581 and our own FD series floppy drives. Our minimum repair charge is \$35.00, which covers the first hour of labor. Additional charges will apply for parts and/or labor beyond one hour. A list of standard repairs are listed to the right. Enhancements can be performed at a reduced price while we repair your drive. Return shipping charges for any drive repair shall be \$7.00 to addresses in the continental United States; additional charges will apply to other addresses.

\$35.00 1541 Drive Mechanism (Refurb) Replacement (Incl. Labor) \$60.00 1541 Mother board (Refurb) Replacement (Incl. Labor) \$60.00 1571 Drive Mechanism (Refurb) Replacement (Incl. Labor) \$75.00 1571 Head Replacement (Incl. Labor) JiffyDOS Installation (Includes Socket)(Computer or Drive) \$35.00 JiffyDOS Installation (Computer and Drive) \$60.00 (Prices are for specific repairs and do not include any addition al services)

Disk Drive Enhancements

Device Select Switch 8/9 or 10/11 (1541) Device Select Switches 8/9/10/11 (1541)

Device Select Switches 8/9/10/11 (1571D Internal Drive) \$50,00 Device Select Switch 8/9 or 10/11 (1571D Internal Drive)

\$45,00

Prices do not include return shipping. Add \$7.00 (Continental US), \$12.00 (AK,HI,PR) Canada/Foreign Call

CALL CMD FOR A RETURN AUTHORIZATION NUMBER BEFORE SENDING EQUIPMENT

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Productivity Software

... to make your computer work for YOU!



Word Processing -1

(Also see geoWrite 64/128 and RUNSCRIPT in the RUN Productivity Bundles)

Superscript Versatile and reliable word processing software from the makers of Superbase. Superscript provides easy access to special printing features, interfaces easily with Superbase for mail-merge functions, and comes with a 30,000 word dictionary and an expandable user dictionary. Supports a wide variety of printers, including all Commodore compatible printers, Epson, Okidata, NEC Spinwriter, Oume, and even Commodore Daisy Wheel types. Customized printer definition supports virtually any printer. Superscript has been a standard in Commodore word processing for many years with both C-64 and C-128 versions (40/80 col.).

SSCRIPT64 SSCRIPT128 Superscript 64 Superscript 128 \$20.00

The Write Stuff Manufactured by Busy Bee Software, TWS is one of the most versatile word processors available for the C-64 or C-128. Features include: Menu or command driven interface, spell checker, multiple help screens and on disk documentation, 80 column high-res preview, user definable Macros, 1-pass two column printing, two doc's in memory, word search and replace, mail and document merge, sort, calculator, linked files, search and replace, man and document merge, sort, calculator, linked files, built-in file converter, built-in file translator supports 14 word processors, multi-line headers/footers, odd/even page header/footer offset, multiple copy printing and label printing, plus much, much more. Additional modules offer RAMLink and CMD Hard Drive Support, plus the illustrator modules let you add RUNPaint, Printshop and FGM graphics to TWS text. This is a slick system which is priced to sell and fully supported by the manufacturer.

The Write Stuff w/ BB Speller for C-64 TWS64 \$39.00 The Write Stuff w/ 88 Speller for C-128 TWS128 The Write Stuff/64 Hard Drive Module The Write Stuff/128 Hard Drive Module \$5.00 TWSHD64 \$5.00 TWSHD128 TWSRL64 The Write Stuff/64 RAMLink Module \$5.00 \$5.00 TWSRL128 The Write Stuff/128 RAMLink Module \$5.00 Illustrator 1(64) - RUNPaint/Printshop graphics TWSILL164 Illustrator 1(128) - RUNPaint/Printshop graphics Illustrator 2 (64) - FGM Clip Art and graphics TWSILL1128 \$5.00 TWSILL264 Illustrator 2 (128) - FGM Clip Art and graphics \$5.00 TWSILL2128

One of the first WYSIWYG word Pocket Writer 1 processors, Pocket Writer 1 offers a wide variety of easy-to-use features at an affordable price. Features include: on-screen formatting and lext wrap, text characteristics - bold, underline and italic, compatible with Pocket Filer and Pocket Planner; 40 or 80 column support, unlimited document length, multiple line headers and footers, addition, subtraction and sorting of columns, Foreign and definable characters, superscripts and subscripts, search and replace, mail merge, customizeable printer drivers; multiple copy print, and much more!

PWRITER1

Pocket Writer 1

Pocket Writer 2 With Pocket Writer 2's menu-driven instructions, you'll fly through letters, presentations, memos, lists, reports and articles. And because Pocket Writer 2 doesn't require using complicated and articles. And because Pocket Writer 2 doesn't require using complicated commands in the text, you'll format your text easily. You get on-screen text formatting and word-wrap, so that what you see is what you get. And since it can read files created by Pocket Filer 2 and Pocket Planner 2, you can easily incorporate data from these programs into your documents. You can even stay on top of your spelling with the Spelling Checker. (C-64/C128).

PWRITER2 PDICT

Pocket Writer 2

Pocket Dictionary (32,000 Words)

\$65.00

Built on the success of Pocket Writer 2, Pocket Writer 3 Pouket Writer 3 adds these new features: multiple columns (up to 4), macros (record and invoke), undo, markers (mark up to 10 locations in one text), book paging (odd-even and left/right), line and box drawing mode, word, sentence and paragraph count, find/replace both forwards and backwards. and cursor movement by sentence and paragraph.

PWRITER3-64 PWRITER3-128 Pocket Writer 3-64 Pocket Writer 3-128

Pocket Dictionary (32,000 Words)

\$70.00 \$70.00

\$20.00

(Also see GenPublish in the GFOS section)

Pagefox is a full featured desktop publishing cartridge and the perfect companion to your Handy Scanner. Pagefox includes full featured, menu driven graphics editor, text editor and page layout editor. Additionally, Pagefox stores an entire page in 100K of built-in RAM, and allows the Handy Scanner to scan larger single images (up to 640 x 800). Pagefox can be controlled by a proportional mouse, trackball or joystick for maximum flexibility in manipulating text and graphics. Pagefox is a great desktop publishing program and is ideal for use with the Handy Scanner.

PAGEFOX

Pagefox DTP cartridge by Scanntronik

\$139.00

SPREADSHEETS

(Also see geoCalc64/128 and RUNCALC in the RUN Productivity Bundles)

SwiftCALC An excellent tool for many tasks, Timeworks' SwiftCALC has long been considered the leading electronic spreadsheet program for Commodore users. The wide array of spreadsheet functions included will let you perform nearly any kind of financial or other numerical data analysis you you perform learly any kind of manager of the translation of the require. In these days when money is tight, wise spending comes from knowing your financial condition. SwiftCALC makes it possible to easily analyze your expenses and income, track checking and other bank accounts, compute when to make early payments on mortgages and loans, estimate costs for projects and much more. And because time is something we all wish we had more of, it's nice to know that once you have created a template for a specific task with SwiftCALC, you can quickly plug in new numbers and for a specific task with SwiftCALC, you can quickly pulg man with the same amounts to perform repetitive calculations. SwiftCALC can also export data directly to Word Writer or Data Manager 2 for inclusion in your word processing documents and databases. SwiftCALC also includes Timeworks' award winning SIDEWAYS utility, which allows you to generate wide reports with more columns than you can normally fit on a standard width printer paper. Maximum limits: 104 columns, 250 rows, 40 characters per cell. Total number of cells usable determined by contents of cells used and amount of memory required for each. (C-64 or C-128 in 64 mode)

SwittCALC Spreadsheet

Pocket Planner 2 Pocket Planner 2 is the answer for number crunchers. This powerful spreadsheet is the right tool for collecting, storing, analyzing and reporting information; financial or numerical. It's a common-sense solution for managing your checkbook, budget, installment payments, worksheets or investment portfolio. Pocket Planner 2 puts some real bite into your number-crunching! (C-64 or C-128/128 mode)

POCKETPLAN

Pocket Planner 2

\$35.00

DATABASES

(Also see geoFile 64/128 in the GEOS section and RUNFILE in this section.)

Data Manager 2 with Report Writer An exceptionally easy-to-use database program which has withstood the test of time, Data Manager 2 from Timeworks has become an industry standard in databases. With its simple menu driven user interface and unique features. it is ideal for the average small to medium sized database. Features include: extensive sorting and reporting capabilities, label printing, ability to exchange data with Word Writer and SwiftCalc documents, graphical reporting, builtin back-up feature, full user prompting audio cuing and password protection.

A great database at an even better price!

Data Manager 2 by Timeworks

Pocket Filer 2 Just like a giant file drawer, Pocket Filer 2 is a fullleatured database that will help you to keep track of just about anything. No matter what kind of information you have to store, Pocket Filer 2 will help you to organize it better, process it in more ways and retrieve it faster when you need it. At home or at the office, now you can organize information the way you want it. (C64 or C128 in 128 mode)

POCKETFILE

Pocket Filer 2 for C-64 and C-128

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CMD Catalog '96

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DATALLET (CONTINUE)

Superbase Precision Software's powerful database software for the Commodore 64 and 128 puts the power of managing large amounts of data at your disposal. The built-in programming language allows you to create custom database applications to do everything from arranging simple lists to running a complete business. Interfaces with Superscript to provide convenient mail-merging of data. Supports Commodore drives as well as CMD's powerful mass storage peripherals. C128 version supports 40 and 80 column modes

erbase 64 v3.01, 5.25" disk	\$35.00
erbase 128 v3.01, 5.25" disk	\$35.00
erbase 64 v3.01, 3.5" disk	\$35.00
erbase 128 v3.01 3.5" disk	\$35.00
	erbase 128 v3.01, 5.25" disk erbase 64 v3.01, 3.5" disk

Keystone Task-Specific Databases

Looking for an easy way to organize something without having to design your own database? Well, here is your answer. The people at Keystone Software have put together a collection of easy-to-use databases that can organize everything from a mailing list to CD's and videos. Each database has been designed especially for a certain application but share many common features. This is ideal if you are planning on using more than one of the databases because they all operate in basically the same manner.

Each program supports the C-64 and C-128 (40/80 column) as well as color and monochrome monitors. In C-64 mode, programs allow for up to 300 records, while 128 versions allow up to 1000 records. Both offer great compatibility with CMD's own storage devices. All share a common pull compatibility with CMD's own storage devices. All share a common pull down menu system and include a handy help screen which displays the commonly used key commands. Additionally, all versions have built-in screen blanking after five minutes of inactivity. Aside from the databases themselves, there is an additional program called Label Maker, which allows you to print out various labels that may coincide with a given database. For additional information on this product, refer to the subject heading Label Programs within this section.

MAILMGR CD/RECLIB AUDIOCAS VIDEOLIB HOMEINV PHOTOLIB HOMEBOOK COIN/STAMP BBALLCARD	Mail List Manager CD/Record Library Audio Cassette Library Video Cassette Library Home Inventory Database Photo/Slide Library Home Book Library Coin/Slamp Collection Library Baseball Card Database	\$17.95 \$17.95 \$17.95 \$17.95 \$17.95 \$17.95 \$17.95 \$17.95
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LABELS

(Also see Dweezil's Greatest Hits in the GEOS section and Label Base on RUN WORKS)

Label Maker One of the most flexible label programs ever! includes: A full set of templates for printing most any type of label, template designer for custom labels, easy merging with popular databases and last but not least, the ability to use embedded printer codes. Label Maker is also ideal for use with the Keystone databases featured elsewhere in this section.

LABELMAKER Label Maker by Keystone

\$17.95

GRAPHICS AND DESIGN

I Paint I Paint From Living Proof, Ltd. comes the most powerful paint program ever released for the C-128. I Paint offers powerful tools and features that just can't be duplicated by any other graphics program. I Paint's use of interlaced video offers an amazing 640x400 pixel resolution with thousands of apparent on-screen colors which can be blended in its easy-to-use palette. Additionally, I Paint is leaded with possible test features which thousands of apparent on-screen colors which can be blended in its easy-to-use palette. Additionally, I Paint is loaded with special text features which allow you to underline, flip, rotate, reflect, reverse and create 3-D effects, when text is superimposed on graphics by using the WITH feature. I Paint also offers full support for RAM Expansion; 24 pin, Laser and color printers; and CMD Devices. I Paint requires a C128-D or C-128 with 64 K video RAM, 80 column RGB monitor and 1351 compatible mouse.

I Paint Interlaced Graphics Program

I PORT From the makers of I Paint comes the most versatile graphics I PUH I From the makers of I Paint comes the most versatile graphics manager everf I PORT is ideal for preparing graphics for cross platform compatibility or for editing. I Port let's you import Amiga IFF, KOALA, GIF, MACPAINT, GEOPAINT, BASICB, uncompressed DOODLE, and PRINTSHOP graphic file formats to I PAINT format; and export from I PAINT images to GIF files which may be used with any computer platform. IPORT also includes a cut and paste option as well as adjustments for height and width. Also IPORT has a built-in selectable compression utility for use with also includes a cut and paste option as well as adjustments for neight and width. Also, IPORT has a built-in selectable compression utility for use with GIF files. I PORT is a must have for the serious C-128 graphics enthusiast.

I PORT Graphics Conversion Utility Flexidraw V5.5 Whether it's freehand drawing with a Light Pen or Koala Pad or detailed drawings, Flexidraw will work for you. Features or Koala Pad or detailed drawings, Flexidraw will work for you. Features include: Multiple line widths for freehand drawing, rubberbanding and point-point lines; Auto shapes; Ten fonts/3 sizes; Undo; Two separate work screens allow split screen for large work; pattern fills; shading; edge outline; rotate, flip; copy/paste; wide array of printer support including dot matrix, color and plotters; Library of symbols to include in schematics, floor plans or math and scientific equations. With features like these, Flexidraw will be able to meet all of your drawing needs! Keep in mind that Inkwell Systems has made a commitment to continue producing and supporting these products. made a commitment to continue producing and supporting these products

So support them by buying their products! FLEXIDRAW

Flexidraw for C64/128 Flexifont An ideal companion to Flexidraw and The Light Pen. Flexifont will let you create patterns, symbols and letters for use with Flexidraw. Includes 33 font styles, font capture program and file mover to relocate fonts.

FLEXIFONT

Flexifont for use with Flexidraw

The Graphics Integrator The Graphics Integrator is a powerful tool for the graphics enthusiast. It offers three main features: Graphics conversion to and from Flexidraw, Doodle, Koala, GEOS, Printshop, Newsroom and more. Slide show creator leatures shutter, sparkle and open door formats as well as 3 presentation formats; Picture conversion allows you to convert pictures for use in any word processors with external file capabilities. Many powerful features—one low price!

INTEGRATOR The Graphics Integrator 2

Graphics Galleria 1 & 2 Each set includes 4 DS/DD disks with 15 to 20 pages of clip art in Doodle and Flexidraw formats. Group 1 includes: Mixed images; maps; borders & signs; and Holiday themes. Group 2 includes: Add'l Mixed images; Animals; The Office; and Futuristic Encounters. Use them to spice up your documents!

GALLERIA1 The Graphics Galleria-Collection 1 GALLERIA2 \$16.00 The Graphics Galleria—Collection 2

Cadpak One of the most popular programs ever produced for the C-64/128, Cadpak produces scaled output of your drawings with most 9-pin printers. Useful for mechanical drawing applications, projects. landscaping, interior decorating, and more. Accepts keyboard, light pen, or mouse inputs. C-128 version has advanced template mode for objectoriented drawing, and uses four linked 40 column screens for the drawing area.

CAD64 Cadnak 64 \$22.00 CAD128 Cadpak 128 \$25.00

LANGUAGES AND COMPILERS

Fortran-64 Designed for students and programmers, Fortran-64 contains support for over 45 Fortran statements and functions, is able to compile subroutines and functions separately from the main program, and has support for accessing the processor registers and Kemal routines. Programs can also call external machine language programs written by the user, and its MEM function allows examining and modifying the contents of memory. (C64 or C128 in 64 mode) FORTRAN64

Fortran-64 Programming Language

Pascal-64 Contains most standard Pascal programming structures and data types, plus support for Commodore SEO and REL files. Procedures and functions for easy handling of strings, hires and multicolor graphics, sprites, and interrupts. (C64 or C128 in 64 mode)

PASCAL64

Pascal-64 Programming Language

\$17.00

CMD Catalog '96

Orders: 1-800-638-3263 Info: 1-413-525-0023

Productivity Software

...to simplify daily tasks!



LANGUAGES AND COMPILERS

Cobol 64 Once considered the most widespread language used for the programming of business applications. Features a syntax-checking editor, interpreter, compiler, and a number of symbolic debugging aids. Also included are a crunch function to reduce the size of programs, a print on/off feature, and sample programs. (C64 or C128 in 64 mode)

COBOL64

Cobol 64 Programming Language

POWER C The only C programming language for the C-64/128. PowerCoffers all of the power and convenience of this high level programming language. Based on the Kernighan and Richie standard, Power C offers Native machine language object code that is 10 times faster than BASIC, language components such as C shell, full screen syntax checking editor, compiler, linker, etc., over 95 functions, C Utilities such as sort, find, and text formatter, tutorials, full support of floating point, and two development environments for the C-64 and C-128. Whether you're an experienced programmer or a beginner who wants to leam, Power C is for you!

Power C Programming Language

BASIC Compiler The BASIC 64 and BASIC 128 Compilers offer a complete compiler development system that will boost the speed of your BASIC programs from 3 to 35 times. Options allow you to compile your programs into machine language, speedcode or a combination of both. Supports overlays and BASIC language extensions.

F. BASIC64 .BASIC128

BLITZ128

BASIC 64 Compiler BASIC 128 Compiler

\$25.00

- Blitz! The Blitz! BASIC Compilers speed up execution of your BASIC programs from 5 to 20 times. Blitz! translates and reduces your programs into a much faster P-code (pseudo code). Compiled programs are complete programs that can be copied and saved like any other program, but cannot

be listed or changed once compiled. Blitz! is easy to use, and offers special features through the use of compiler directives. BLITZ64

Blitz! BASIC Compiler (64 version) Blitz! BASIC Compiler (128 version) \$30.00 \$30.00

UTILITIES

(Also see the GEOS section for GEOS related utilities)

CMD Utilities Apowerful collection of disk utilities for CMD devices. CMD Utilities contains many new and unique programs, as well as significant upgrades of CMD classics. For example, FCOPY+ which is an upgraded version of CMD's two-drive file copier with new features such as unscratch. copy/delete boot sectors, unnew disk/partition, file compare, lock/unlock files, make/remove subdirectory, file/header/partition renaming and more. A new version of BCOPY+ is also included, giving you the ability to back up any CMD device to another, or to any CBM floppy drive. Then there's MENUETTE 64. a simple point and click interface for getting around last on CMD devices. Also included are MCOPY, a two-drive whole disk copy program; FIND, for locating files anywhere on your system; DIR SORT, for alphabetizing directories; MCOMPARE, to compare entire disks or partitions; FOLLOW LINKS, for locating corrupt files; CONVERT 41 \Leftrightarrow 71, to convert disks between double or single-sided modes; FOREIGN CREATOR, for making large foreign partitions; SANGIE-SINGOMODES, FOREIGN CHEATON, IOI MAINING LIGHT OF IGHT INTO INTO IT AMALIAN, RAMDrive memory, HD POWER TOOLS, for direct editing of HD partition tables; REBUILD PDIR, which helps recover lost partitions. The shareware directory sorting utilities DEDIT 64 and DEDIT 128 are also included.

CMDUTILS

CMD Utilities

Big Blue Reader A superb utility for transferring text or data files between Commodore and IBM or CP/M disk formats. The Big Blue Reader allows you to read and write MSDOS formatted disks, plus it performs ASCII and Screen Code translations during transfer. Requires a 1571 disk drive for IBM 350K and CP/M formits, 1531 or CMD FD Series drive for IBM 720K format, or CMD FD drive for IBM 1.44 MB format. Includes both C-64 and C-128 versions.

Big Blue Reader 128/64

CHECK128

SEC Check Register 128 (128 mode only)

JiffyMON Designed for use with JiffyDOS, JiffyMON is one of the most powerful ML monitors ever developed for the C-64. Features include: built-in sector editor and disk drive monitor, uses no BASIC memory, works along with BASIC, complete command set with debugging commands, and allows access to hidden RAM under BASIC, Kemal ROM's and I/O. JiffyMON is a uniquely powerful development/debugging tool, as well as a means for exploring the inner workings of the C-64 and C-128 (64 mode)

JIFFYMON/64- ML Monitor JMON

The Compression Kit-CKIT '94 version adds more power and speed to an already powerful utility. C-Kit '94 contains seven powerful utilities for copying and archiving files, disks and partitions on Commodore or CMD drives. And what makes all this power even better is that Mad Man has made sure that The Compression Kit is easy to use through a simple menu system. Even more important, each of these new utilities fully verifies the data written, so that you can be sure your data is sale. CompKit '94 contains: Filemaster, a full-featured file copier, Procopy, a whole-disk/partition copier, Archiver, a file backup utility which compresses multiple files into single CKit files; and the 1541/71/81/CMD Boa. (C-64 or C-128 in 64 mode). Newfeatures include a faster, more efficient compression scheme, full REU and RAMLink support, more selectable files, dissolver-creates self-dissolving archives for non-CKIT equipped systems, and RAMTEST which tests RAM to ensure reliable REU/RAMLink operation.

COMPKIT

The Compression Kit - CKit'94

BUDDY Assembler As the industry standard in assemblers. Buddy is a complete machine language assembler which supports C-64. C-128 and Z-80 processor with up to four Commodore compatible disk drives including CMD's HD, FD and RAMLink storage devices. A rich body of commands and range of abilities set the standard for convenience and flexibility in assembly language programming. Buddy supports source code written in the BASIC editor and Buddy's own SEQ file editor. Also included is Buddy's own Disassembler. Coming Soon - BUDDY for the SuperCPU!

BUDDYCPU

Buddy Assembler for C-64 and C-128 BUDDY Assembler for SuperCPU 65C816 \$59.95

MISCELLANEOUS PRODUCTIVITY

Personal Portfolio Manager A must for anyone who plays the market. Today's investor needs the help of a computer to keep track of the enormous amount of data that is presented at the end of each business day. PPM offers you the flexibility and detailed reporting that you need to make intelligent decisions as to the make up of your investment portfolio. PPM will help you to: easily keep track of buys, sells, short sells, covers, taxable/nontaxable dividends/interest income, stock splits and cash adjustments. PPM also allows you to create custom reports with the information you need most. PPM creates special interest portfolios and monitors their individual performance. By obtaining historical quotes from Dow Jones, you can analyze a security's past performance to help develop a specific strategy. Why spend countless hours checking quotes in the newspaper when it can be done automatically with PPM? PPM is by far the most advanced program of its kind for the Commodore 64 or 128 in 64 mode.

Personal Portfolio Manager

Chartpak From the author of Cadpak, Abacus' Chartpak 64 and 128 provide a wide range of charting capabilities, including pie charts, horizontal and vertical bar graphs and line graphs. Excellent for presentations and comparing data. C-128 version uses four linked 40 column screens for the drawing area.

CHART64 CHART128

Chartpak 64 Chartpak 128

SEC Check Register 128 Manages personal or small business checking accounts in a fast and efficient manner. Features fast data entry, predefined transactions, easy editing, and bidirectional scrolling. Maintains history file and allows up to 750 entries for current register. Define up to 54 names and addresses for recurring payees. Excellent reporting and support for multiple check formats and printers.

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Bible S∈ New Testamen search options and an exhaus Bible with over time (per/word, other Biblical available in 3.5

BIBLEKJV-5 BIBLENIV-5 BIBLEKJNIV-5





DigiMast sounds on the C sound reproduct The easy-to-use paste, and revers sound samples c to the user port how to add real s DIGIMASTER

Caged Ar

Create, edit, store with the MIDI pato Yamaha FB-01 ar 3000/5000, Kaiwa JX-8P. DX-Heave MIDI interface rec

CAGED40P CAGEDCZ CAGEDDX

Algorithm scoring Miami Vic music based on p create KCS compa COMPOSER

RUN

Productiv collection of us (database), F (telecommunica: Screen Print, an utilities for use wi

RPPAK

Productivi provides some ne to earlier releases v2.40 (word proce for the C-64 is R (telecommunical Construction Set (one or two 1541 d

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RPPAK2

PAGE 8

ORDERS: 1-800-638-3263 INFO: 1-413-525-0023

Bible Search

Ouickly search the contents of the Old and New Testament for specific words or combinations of words. Offers extensive search options using wildcards and boolean operators (AND, OR & NOT), and an exhaustive English Concordance indexes every word in the entire Bible with over 700,000 references. With an amazing five (5) second lookup time (per/word, per/disk), Bible Search is great for writing sermons and all other Biblical research. Includes both C-64 and C-128 programs, and available in 3.5* and 5.25* disk formats. KJV and NIV versions available.

 BIBLEKJV-5
 KJV Bible Search on 5.25" disks (-3 for 3.5")
 \$49.00

 BIBLEKJNIV-5
 NIV Bible Search on 5.25" disks (-3 for 3.5")
 \$59.00

 BIBLEKJNIV-5
 KJV/NIV Bible Search on 5.25" disks (-3 for 3.5")
 \$99.00



I SOUND

DigiMaster An exciting new program edits and plays 8 bit digitized sounds on the C- 64 or C-128 (64 mode). DigiMaster provides crisp, clear sound reproduction, and includes a utility for Amiga IFF sound conversion. The easy-to-use interface makes editing a breeze, and you can copy, cut, paste, and reverse segments of sound samples. DigiMaster can also record sound samples directly on the C-64 by attaching an Amiga sound digitizer to the user port (instructions provided). Sample programs even show you how to add realistic sounds to your BASIC programs!

DIGIMASTER DigiMaster Digital Sound Editor

Caged Artist/Dr. T MIDI Patch Editors

Create, edit, store and save sound patches for your MIDI instrument directly with the MIDI patch editor/librarian programs from Dr. T. The 4-OP supports Yamaha FB-01 and DX100/21/27. CZ-Rider supports Casio CZ-101/1000/3000/5000, Kaiwai K-3, Lexicon PCM-70, Oberheim Matrix-6 and Roland JX-8P. DX-Heaven supports DX-7 and TX-7. Passport, Sequencial or Dr. T MIDI interface required. (C64 or C128 in 64 mode)

 CAGED4OP
 4-OP MIDI Editor/Librarian
 \$20.00

 CAGEDCZ
 CZ-Rider MIDI Editor/Librarian
 \$20.00

 CAGEDDX
 DX-Heaven MIDI Editor/Librarian
 \$20.00

Algorithmic Composer Used by Jan Hammer in scoring Miami Vice episodes, this program helps your computer create music based on parameters set by you. Outputs directly to MIDI, and can create KCS compatible files. (C64 or C128 in 64 mode)

COMPOSER

Algorithmic Composer

\$20.00

SONUS MIDI Sequencing Software

the most popular pieces of sequencing software ever released for the Commodere C-64 and C-128, the SONUS Super Sequencer is a full featured 8 track sequencer which provides the user with everything they need to begin editing and creating MIDI music. SONUS supports Passport, Yamaha, Sentech and Sequential Circuits MIDI interfaces and is compatible with the Dr. T's programs listed below. Affordably priced, the SONUS SuperSequencer is ideal for every musician from beginner to expert.

 SONUS64
 SONUS/64 Midi Sequencing Software
 \$59.00

 SONUS128
 SONUS/128 Midi Sequencing Software
 \$59.00

 SONUSINTRO64
 SONUS/64 Sequencer w/ Sentech Interface
 \$99.00

 SONUSINTRO128
 SONUS/128 Sequencer w/ Sentech Interface
 \$99.00

Sentech MIDI Interface Ideal for use with the SONUS Super Sequencer, the Sentech MIDI interface will allow you to connect your C-64 or C-128 to a host of keyboards, drum machines and sound generators. For more information, see the hardware section later in this catalogue.

VIDEO & VIDEO TITLING

Video Digitizer Produced by Scanntroniks, one of Germany's most recognized Commodore peripheral manufacturers, the Video Digitizer is loaded with features that you would expect to see only on high end PC's. The Video Digitizer allows you to capture a video signal and



save it as an electronic image. Images may be captured from a Video Camera, VCR or Camcorder. The Video Digitizer package consists of the Video Digitizer cartridge, Utilities disk and English manual. The utilities disk includes: Digison (Full featured paint program/Graphic converter), Digifox (Digitizer Program) and DigiMulti (Color Video Capture System).

With The Video Digitizer, you will begin building your own graphics and clip art library in no time. Imagine adding your own graphics to your documents, newsletters, cards and banners. So if you're serious about producing professional looking documents and are tired of seeing the same old canned graphics, pick up your own Video Digitizer today!

DIGITIZER

Video Digitizer Cartridge

\$189.00

Videofox This unique program offers video enthusiasts a number of powerful features which range from video tidling to animations and the ability to create small trick films. In addition to the many fading effects, Videofox also offers a variety of scrolling effects, movements and colors, all of which make a great addition to home videos, demonstration videos or any video screen the



videos, demonstration videos or any video presentation. Ideal for the hobbyist or any want-to-be producer. The Videofox system is also produced by Scanntroniks and has become the standard for video effects and titling in Germany. Includes: Videofox software and English manual translation.

VIDEOFOX

Video Titling and Special Effects Program

\$89.00

RUN Productivity Bundles

Productivity Pak I First of the series, containing a collection of useful productivity programs including: Datafile v3.3 (database), Run It Write (word processor), RUN Term (telecommunications), Finance Aid, GraphMaker, Memo, Disk Master, Screen Print, and BASIC 4.5. Also included are DFPnnt and DFCalc, utilities for use with Datafile. (All programs for C-64 or C-128 in 64 mode)

RPPAK

RUN Productivity Pak I

\$15.0

Productivity Pak II RUN's second productivity Ilneup provides some new programs for both the C-64 and C-128, plus updates to earlier releases. For the C-128, this package includes RUN Script 128 v2.40 (word processor), Reminder 128, and Gradebook 128. Also included for the C-64 is RUN Script 64 v2.40 (word processor), Runterm Plus (telecommunications), Turtle-Tutor (Logo-type language for kids). Construction Set (graphic screen and character editor), Disk Backup (for one or two 1541 drives), and Datafile v3.6 (database).

RPPAK2

RUN Productivity Pak II

\$15.00

Productivity Pak III For both the C-64 and C-128, this package includes: RUN Script Plus (word processor) and it's companion RUN Script Speller and Dictionary Maintenance programs, RUN File v1.0 (database), RUN Calc (spreadsheet), and RUN Notepad. Also includes RUN DEX for the C-64 (rolodex), and RUN Investor for the C-128.

RPPAK3

RUN Productivity Pak III

\$15.00

RUN WORKS AUN WORKS offers a new mix of productivity programs for the C-64 and C-128, including RUNTerm, Form Writer, Money Manager, Label Base, RUN Paint, Graphmaker, and RUN Shell,

RWORKS

RUN WORKS

\$20.00

Super Starter Pak

An excellent start-up kit for the C-64
and C-128 that includes: RUN Script Plus (word processor), RUN File
v1.0 (database), RUN Calc (spreadsheet), RUN Term
(lelecommunications), RUN Palnt (drawing), RUN Shelt (disk
maintenance), and Label Base (label printing). Available on either 5.25°
or 3.5° disks.

RSS1541 RSS1581 Super Starter Pak 1541 Super Starter Pak 1581

\$20.00 \$20.00

CMD Catalog '96

Orders: 1-800-638-3263 Info: 1-413-525-0023

GEOS™ v2.0 Whether it's a 64 or a 128. GEOS makes everything on your Commodore as easy as pointing and clicking. No kidding

The spreadsheet works by pointing and clicking, just like the desktop publisher does - which is exactly how the word processor works, and so on So once you know how to point and click a mouse or joystick, you pretty much know how every GEOS program works. Simple, huh? Well, that's the idea.

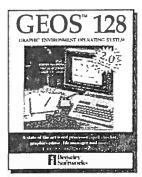
GEOS applications freely swap data with one another, too, so trading text or graphics is never a problem. Which means you spend more time creating and less time deciphering instruction manuals.

The head of the family is GEOS 2.0, which includes everything you need to get started. Its deskTop keeps track of all your files and comes with a diskTurbo that drives your Commodore up to seven times faster. It also

comes with a calculator, alarm clock and memo pad.

But the real power of GEOS 2.0 is the way it lets you create beautiful, custom documents with all kinds of graphics. What-you-type-is-what-yousee with geoWrite, a full-featured word processor that displays fonts as you type. And to keep your spelling in check, geoSpell automatically checks your spelling, scanning its own geoDictionary and correcting any blunders it finds. With geoPaint, you get a graphic workshop with over 32 different tools and





By now, you've heard a lot

patterns that allow you to draw and save almost any kind of graphic, And everything you produce can be printed out on dot matrix or even Postscript™ supporting laser printers.

Developed by Geoworks and distributed by CMD, GEOS comes bundled vith geoWrite, geoSpell, geoPaint, and a wide array of printer and input drivers. Supports up to three drives and RAM expansion.

	GEOS64	GEOS 64 v2.0	\$44.00
	GEOS128	GEOS 128 v2.0	\$49.00
ı	GEOS 2.0R	GEOS Kemal for GEORAM (64 / 128)**	\$25.00

** Note: GEOS 2.0R is only for use with GEORAM and requires an original working copy of GEOS 64 or GEOS 128 2.0.

GEOSTM Applications and Related Products

GEOFILE™ A powerful graphical database designed to provide you with fast access to any number of facts you may have stored. With GEOFILE ryou have the ability to organize volumes of important data into easy to find records. And with the GEOFILE "form" you can organize names, numbers, or whatever you tell it to, for business forms, address labels; whatever you need. Just click your mouse and GEOFILE starts searching, sorting, comparing and listing data in whatever order you prefer.

solving a variety of mathematical problems including balancing check

books, budgeting, or projecting personal profits. GEOCALC offers you up to

112 columns and 256 rows which you can fill with all kinds of text, formulas

and numbers. It can even generate random numbers, average or use the

built-in investment functions. Formulas are as easy to write as... one two

three! With mouse in hand, you can zip all over huge spreadsheets, solving

Charts have been proven to increase peoples ability to absorb statistical data, and GEOCHART data can be easily imported into GEOWRITE for professional looking documents. GEOCHART supports up to 80 data points

and the following chart types: column, bar, area, pie, point, line, unibar and

scatter line. Data may be imported from GEOS 64 and 128, geoCalc 64 and

128, and geoFile 64 and 128. geoCHART is a must for anyone who wants

GEOPUBLISH™ With geoPUBLISH, newsletters become

surprisingly simple. All you need to do is draw in your master columns and

just "pour" in your GEOWRITE document - text, graphics and all - into column after column, page after page. You can resize text. Change fonts.

Even insert or delete graphics anywhere on the page. You can lay text over

graphics; graphics over text. Wrap text around graphics. Even shrink or

enlarge graphics to fit where you want them. And its built-in clip art makes it perfect for posters and fantastic for flyers.

This incredibly useful spreadsheet is ideal for

An excellent way to spruce up any document.

GEOFILE64 **GEOFILE128**

GEOCALC64

GEOCHART

GEOCALC128

GEOCHART™

GEOCALC™

GEOFILE 64 **GEOFILE 128**

GEOCALC 64

GEOCALC 128

'what if' questions with a few quick clicks.

to present professional looking documents.

GEOCHART

\$40.00 \$45,00

\$40.00

\$45.00

GEOPROG

GeoPROGRAMMER allows assembly language programming in GEOS Includes: GeoAssembler, geoLinker, geoDebugger plus over 400 pages of documentation which offers complete listings of GEOS macros and equates, as well as documented source code for sample GEOS applications

about the various GEOS applications, but if you're one of those people who

likes creating your own software, then this is the product for you

geoPROGRAMMER \$45.00 GEOBASIC™ Everything you've ever wanted in a high level programming language at an affordable price. With over 100 commands, graphics, fonts and specialized editors, you have all the tools you need to

create utilities, games and personal applications with the familiar pull down

GEOBASIC

menus and icons that you have grown to love in GEOS. **GEOBASIC**

GEOPROGRAMMER™

DESKPACK PLUS^{1M} A uniquely powerful collection of utilities for optimizing GEOS. Graphics Grabber lets you convert Print Shop, Print Master, and Newsroom artwork for use with GEOS applications. If customizing your GEOS system is your bag, then the ICON editor will give you the chance to make your own icons. With geoMerge, you can create personalized form letters with data from geoWrite, GEOFILE, and geoDex. If you want to keep track of important phone numbers, names and addresses, you will like geoDex with its autodial features. And if that isn't already enough, Desk Pack Plus includes a great calendar program and Black Jack card game.

DESKPAK

DESKRACK PLUS

FONTPACK PLUS™ Offering over 53 font styles with multiple sizes, FONTPACK PLUS gives you the flexibility to create a variety of exciting styles for your letters, banners, newsletters and invitations. Includes geoFont, which creates new fonts and edits existing fonts.

FONTPAK

FONTPACK PLUS

INTERNATIONAL FONTPACK™ Packed with twenty-five fonts with support for nine languages, International Font Pack is perfect for anyone who wants the flexibility to use the special characters that are common in written languages around the world. Fonts are included in English (U.S. and U.K.), Spanish, German, French, Italian, Danish, Swedish and Swiss. Includes geoFont, for creating new fonts or editing existing ones.

FONTPAKINT

International FONTPACK

\$25.00

GEOPUB

geoPUBLISH

\$40.00

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Re

RRSPR85 CALCAIDER, QUAT PLENTY, RECORDS

RRSUM85 LANDLORD, INVOICE BALL TEACHER, SPE SOUND SAMPLER, G

RREALIRS AUTO MENU, DISK DO BANNER MAKER TUF TEST MAKER TESTT COMPLEA.

RRJAN86 BASIC AD 64, AUTOBO ML TYPIST 64, RUNTER AUTORUM 64, LISTEF DEDUCTION 64, BURGE

RRMARS MENU 121 MENU 64 SONGFEST 64, AUTO: METROHOME 64, GRAD

RRMAY86 SWISH, DISK READER, L. SKETCH, TOKENIZER, C. MURDER MYSTERY, MYS

RRJUL86 VIDEO 1. VIDEO 2. VIDEO MAG PRODUCTION, MAG DISK KEEPER, MAKECHAR

RRSEP86 LOM ARAMGER, TURT, MAKER, DATAMAKER 64, D. FAOTHEWORD, DEMO POR HALLOWEEN

RRNOV86 CALCAID 64, PUT IT ON PA MATH SQUARE-OFF, MICRO-COMM AND-OR 64, MAG RE CHAR ME TYPIST 20, SUM F

PEG SOLITAIRE RRJAN87 REMINDER 128, PATCH RS1 TWIDDLE 128, RAM DISKLOAD

ADOTALC 128, NOTEPAD 1, SPELLING, SORTER 1, SORTE SPLITWORDS, M100 TO CC4, D LABELS, LABEL COPY 64, EM

RRMAR87 MENU 64, DEPRINT, PICK A LE RECIPE, DECALC, MENU PRG ENHANCER, DATAFLE 3 6.

RRMAY87
PRESTOWNTE 128, WINDOW 12
64, DEBUGGER 64, 128 KEYS IN
STUFFER, NOTEPAD, POWER K
TECH SPRITES, PUZZLER'S CHC

RRJUL87 TRI-SOLITAIRE, SHOPPING LIST CARDS, UH PIECHI-RTS, DECLO-KEYBOARD NUMBERS, PEGBOAL

RRSEP87

128 NOTEPAD, TALKING DATA ST SCREENGENIE OUTLINE 128 DIRI DE COPY, MONEY PROGRAM, 15 LIERARIAN

CMD Catalog '96

PAGE 10

ORDERS: 1-800-638-3263 INFO: 1-413-525-0023



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Perfect Print LQ

If you're like most GEOS users, you love its point-andclick interface and icons, but are lired of the poor output quality. Well, Perfect Print is about to change all of that 0

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quanty. Wen, Penect Pnnt is about to change all of that by offering you laser like output from your 9 or 24 pin printer. Impossible, you say? Not hardly... Perfect Print is a powerful collection of custom printer drivers (LQ for geoWrite/HQ for all GEOS applications) and fonts for GEOS which utilize the high resolution modes that are built-in to most IBM, Epson or NEC compatible printers. Perfect Print is capable of printing at 240x216 dpi on 9 pin printers and 360x360 dpi on 24 pin printers. So when you compare standard GEOS output at 80x72, you can really see the difference.

How is this possible? It takes some pretty tricky programming and complex mathematical equations. Perfect Print's LO fonts and drivers work like this. Perfect Print determines what density it will be printing in and selects a new point size based on that density; for example 24 points to print 8 point type at triple density. Since three times as many dots fit into the same area at triple density, a 24 point character comes out the same size as 8 point does in standard density. Additional calculations smooth out jagged curves and lines.

HQ drivers support all GEOS applications, and work in a somewhat different fashion because characters are handled as graphics. This means that there is no printer font from which it can compare. Basically, HQ drivers simply determine the beginning and end points of a given image. It then calculates the center point and places dots along that line as it sees fit resulting in a dramatically improved output.

Special Features, you ask? Perfect Print also offers a variety of convenience features that make printing easier. Features like its multiple copy print allow you to print multiple copies while the printer is unattended, GEOCABLE compatibility makes for much faster printing on Centronics printers and LO Border fonts allow you to put eye catching borders around geoWrite documents. And if that weren't already enough, Perfect Print comes with a Font Editor for creating your own LO or HO fonts and a print quality control that allows you to print in draft, medium and high quality modes to maximize the output speed.

Now, if what we say doesn't convince you that Perfect Print is the finest printing enhancement for GEOS, then take a look for yourself.



Standard GEOS



Perfect Print

Output Enlarged for Comparisons

PPMAIN F PPLQ F PPFONTS L PPFONT3 L BORDER1

 Perfect Print LQ (Main System/7 LQ Fonts/1 Border)
 \$34.95

 Perfect Print LQ (Main System plus LQ Font Coll. 1 & 2)
 \$49.95

 LQ Font Collection 1 & 2 (49 LQ Fonts, 7 Borders)
 \$29.95

 LQ Font Collection 3 (18 LQ Fonts/5 LQ Borders)
 \$19.95

 LQ Border Font Collection 1 (24 LQ Borders)
 \$19.95

Note: Partical Print's not computable with the following Commodore ready puritiess: Blue Chip, CBM 1525, 1526, MPS801/802803, Eppson GX-90. Home emitter LX-90. MX Sames, Outsite Microline, Oldclata 123, Olomate 16/20, Sekosha SP-180VCSP-1000VC, Star SG-52-100, 2420, IBM 2024, all C Insh.

GEOS Accessories

CMD's GEOCable II

Ideal for use with Perfect Print LQ and standard GEOS, GEOCABLE II offers the fastest printing speed possible. By connecting directly to the User port on the computer and the Centronics port on the printer, your documents can be printed up to 50% faster.

GEOCABLE GEOCABLE15 GEOS Compatible Parallel Print Cable (6 FT.) \$29.00
GEOS Compatible Parallel Print Cable (15 FT.) \$34.00

CMD Smart Mouse and Smartrack Trackball



MOUSE TRACKBALL Perfect for GEOS, these three button, C1351 compatible devices offer GEOS users better control over pointer movement, drawing functions and menu control than ever before. Both come complete with CMD's custom GEOS drivers, built-in real-time clock, TURBO button, Analog/Digital modes, and double click button.

Smart Mouse - 1351 compatible mouse Smart Track - 1351 compatible trackball

pall \$69.95

GEOS Programmers Reference Guide & Hitchhikers Guide

Extinct for several years, CMD has revived these in-depth programmers manuals for GEOS. The Progs. Ref. Guide offers 450+ pages of detailed programming into while the Hitchhikers guide offers 350+ pages of programmers notes from the authors of GEOS.

PROGREF Prog. Ref. Guide \$35.00
HITCH Hilchhikers Guide \$35.00
PROHITCH Both tilles \$60.00

geoMakeBoot Rated 5 Stars in *DieHard* (November 1993). This simple utility program allows users of GEOS and GEOS128 to create GEOS boot disks on Commodore 1541, 1571, 1581 drives. It can also create boot partitions on all CMD devices (HD, FD and RAMLink).

\$12.95

Collette Utilities Acollection of Jim Collette's most popular GEOS utilities, this disk is a must for GEOS users of all abilities. Includes: geoWizard which freezes a current program while you run a second program or perform a screen dump; Font Editor lets you create or edit standard GEOS fonts, Mega Fonts or Perfect Print fonts; Font Changer, lets you change fonts within any given GEOS application; MiniDesk, the ultimate GEOS file copier D/A; Select Printer, for quick printer driver switching from within applications; Auto AlbumAdd places the current photo scrap directly into the Photo album without having to open the album itself; DOS Wedge lets you send standard DOS commands from within GEOS; and finally Laser Landscape, which supports postscript laser printers by allowing you to print sideways from geoPublish.

COLUTIL

with a comprehensive 38 page manual.

GEOS Companion Whether you're creating animations and sound effects or playing Breakout in 3-D, GEOS Companion has something for every GEOS user. It is packed with powerful accessories and utilities such as Pattern Editor 2.0, File Merge. 1581 Boot Maker, Auto-Loader and Batch File Copier. And it hat isn't enough, we've added Susan Lamb's collection of clip art images, ideal for dressing up cards, newsletters or any other document you may be creating. Comes complete

GEOCOMP

\$20.00

\$19.95

GEOS Power Pak This revolutionary disk features some of the best talent in the GEOS community. A two-sided disk packed with ten of the most practical GEOS desk accessories, utilities and applications, plus 21 fonts and over 100 cllp art images. GEOS Power Pak expands C-64 capabilities, increases your efficiency, and makes you more productive. GEOS Power Pak includes: geoTerm 1.0, CardFile, Write Hand Man, geoBreak, Autoview, Pattern Editor, Thumbnail, geoOrganizer, Convert 2.2, and PaintVlew II.

GEOPAK

\$20.00

GEOS Power Pak II Log on to your lavorite BBS without ever leaving GEOS. Shoot before you're shot in a challenging arcade-style game. Create documentation files for GEOS utilities. Capture your opponent in Egyptian Siege. Save time with a simple text editor or view any style or size font. Includes: GeoTerm64 V2.0, GeoTerm128 V2.1, Egyptian Siege, FontView, geoTILE, Q&D Edit. Import Runner, DocWright II, Shoot Out, four fonts and over 30 clip art images.

DPAK2

\$20.00

CMD Catalog '96

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More GEOS Related Software...



System Requirements

- Commodore C-64, C-64C, C-128, 128-D computer
- GEOS 64 or GEOS 128 version 2.0
- SwiftLink RS-232 cartridge
- · Group III, Class 2 fax modem
- GEOS compatible disk drive (large capacity drive or RAM disk recommended but not required)

Prices & Special Bundles

Features

- SEND & RECEIVE FAXES to/from any fax machine or computer running a fax modem
- User-friendly and easy to operate
- Auto-answer mode for unattended operation
- · Manual send/receive mode shares phone line
- Built-in functions covert faxes to geoPaint files
- geoPaint files may be faxed without conversion
- · Built-in printing functions for printing fax documents and geoPaint files
- Printer drivers may be selected directly from within the program
- Full-page scanning into geoPaint is possible using a standard fax machine as a scanner
- Built-in simple terminal program lets you browse telecommunications services

Click Here Software's - geoShell



geoShell brings another facet to GEOS - a true command line interface for entering disk commands, viewing directories, starting up applications, copying files, and a whole lot more. In fact, geoSHELL provides you with so many features and so much flexibility that you'll wonder how you ever managed without it!

For speed in getting around in GEOS, nothing else comes even close to geoSHELL. Why? Because geoSHELL doesn't have to load icons.

doesn't care how many files are in your directory, doesn't even bother with loading a directory until you tell it to! And geoSHELL makes starting an application a snap - just type in the name of the application, and geoSHELL will go looking for it - and won't give up until it has checked every drive on your system! Additionally, it can automate common tasks, is compatible with other desktops, dualtop, topdesk, and gateWay, supports devices A-D including CMD devices, offers over 50 commands, built-in help, programmable function keys, and much, much more. So if you want to get the most out of GEOS, shell out a few bucks for geoShell! GEOSHELL geoShell - CLI for GEOS



streamlined approach to file management under GEOS. With a resizable Note Pad, proportional slider and fuel gauge, the gateWay

makes it easier to get where you're going. Convenient Status Boxes will indicate current copy or delete status, and brand new disk and file Info Boxes let you quickly get the information you want. An integrated Control Panel replaces Preferences, and lets you choose your colors, background pattern, input and printer drivers, set the clock, and define function keys. The gateWay also provides a file locating browse feature, and a new Trash Can mechanism that never throws away files until you tell it to. In addition to the powerful new desktop, gateWay offers superior device support, including full partition support for CMD device users, plus a powerful task switching feature that allows you to have two applications open simultaneously!

Do you use RAM expansion? Then you can access multiple tasks with GEOS. The gateWay's Switcher allows two separate tasks to run concurrently. Imagine having geoWrite and geoPaint running at the same time. Imagine the ease with which you could paste graphics and text scraps between them, plus the ability to quit from either application and launch another at any time. Only with the gateWay - a whole new integrated way of working with GEOS.

GW-64 GW-64/128 gateWay 64 for GEOS 64 v2.5

gateWay 128 for GEOS 120 v2.5

\$29.95 GateWay 64/128 Combo \$44.95

Note: Gate-ingresques GEOS v.2.0 or GEOS128 v.2.0, and a minimum system consisting of at kinds over 1541 or 1571 dock drive, aim use or psystok and 510s. RAM Expansion. For best results, CMD recummends at least 1 MS of RAM.

Dweezil's Greatest Hits! A collection of classic GEOS utilities

Are you ready for a really great deal on some of the best GEOS related software ever devised? If you are, this collection is for you! It includes the famous NewTools2, the fabled utility that allows you to perform unbelievable feats of magic with text and objects when used with either the geoPaint or geoCanvas drawing applications for GEOS. Pick an object - any object - and rotate it! Or just tilt it. Form it into an arrow. Slant it. Stretch it into an arch. Double or triple its height or width. It can do it all!

Next up is DweezilLabel128 - the hottest label program to come along in years! Print labels in graphics or text modes, import paint scraps to be used as labels, or backgrounds for the labels you create in almost any font you desire. Print multiple copies of a single label, or a range of individual labels. Print onto single, double or triple column labels. And each label can have up to six lines of text. Label text can be imported or exported, and even written to geoMerge files. You can even sort labels, store and retrieve them. Obviously, Dweezil worked overtime on this superb application that works with GEOS 64 or with GEOS 128 (80 Col.).

And if that's not enough there's BIGSTAMP! BIGSTAMP works with geoPaint and geoCanvas to allow you to stamp out multiple copies of small graphics with the speed and accuracy that cut-and-paste just doesn't have. Plus, BIGSTAMP displays your position on the screen for exact placement. Not only that, but you can invertit, flip it horizontally or vertically, turn it into a cookie-cutter, and even paint with it! You can store and retrieve stamps in stamp files, and even layer stamps together to form more intricate patterns. Now with all this, plus Dweezil's StampCollect, StampEdit and StampPrint utilities, and sample stamp files, how can you go wrong?

DWEEZIL

Dweezil's Greatest Hits

for the (create ci lists to ru convenie CMD's p: column n SBASE6. SBASE12 SBASE64 SBASE12

Keyst

Looking for your own a Software ha organize ev has been o common fea of the databa Each program and monochi

records, while compatibility v down menu s commonly use screen blankin themselves, the you to print out additional infor: Programs within

MAILMGR CD/RECLIB AUDIOCAS VIDEOLIB HOMEINV **PHOTOLIB** HOMEBOOK COINSTAMP BBALLCARD



(Also see Dweenil's Gre

Label Mak Includes: A full set o designer for custom but not least, the abil ideal for use with the I

LABELMAKER



I Paint

program ever released features that just can't b use of interfaced video thousands of apparent, lo-use palette. Additional allow you to underline, it when text is superimport also offers full support fo and CMD Devices. I Pain 80 column RGB monitor IPAINT

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\$29.95

CMD Catalog '96

ReRUN Disks...

SELECT ANY RERUN DISK FOR \$10.0° ANY 3 FOR \$18 OR ANY 6 FOR \$24

...featuring hundreds of programs from the pages of RUN magazine

RRSPRAS Spring 1985
CALCAID44, CUATRO, SCREEN, SMOKING, TAG MEMO, JACKETS, PLENTY, RECORDS, SCRAWBLER.

RRSUM85 Summer 1985
LANGLORD, HYDICES, MONEY MANAGER, BARGAIN HUNTER, PLAY
BALL, TEACHER, SPELLING, NUMBER PUZZLE, BLOCKBUST, RENUMBER,
SOUND SAMPLER, GRAPHMAKER, MYSTICK ARTIST

RRFALLBS FAIL 1985
AUTO MENU, DISK DOCTOR, 64 DIRECTORY, BIGLETTERS, TITLE MAKER,
BANNER MAKER, TURTLE GRAPHICS, CALCULATOR, FINETON KEYS,
TEST MAKER, TEST TAKER, HOME HUN DERBY, GOLD GRAEBER, MICRO
COMPLEX.

RRJAN86
BASIC AID 64, AUTOBOOT 128, STACK 64, CREDIT CARDS 64, 128 TYPIST,
ML TYPIST 64, RUNTERM PLUS 64, WORD JUMBLER 64, PULSWA PYCS 64,
AUTORUM 64, LISTER 64, DISK REMAMER 64, ULTRA HIRES, TAX
DEDUCTION 64, BURGERS 64, BAPOQUE MUSIC 64

RRMAR86 March/April 1986
MENU 129, MENU 64, RUNSCRIPT, KEYPAD 64, KEYPAD TYPIST 64,
SONGFEST 64, AUTOBOOT 64, AUTONUMBER 64, ML TYPIST 64,
METROMOME 64, GRADEBOOK 128

RRMAY86 May/June 1986
SWISH, DISK READER, LABEL MAKER, COMMA GENERATOR, ARITHMESKETCH, TOKENIZER, QUICK MERGE, FIND IT, 30-CCL CHARACTER,
MURDER MYSTERY, MYSTERY GAMEPAD

RRJUL86
JUIY/August 1986
VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4, HI RES WRITER, NEEDLEGRAPH,
MAG PRODUCTION, MAG READER, MAG PRINTER BOOTIANER 1254,
DESKEEPER, MAKECHARS, USECHARS, MENUSUBROUTINE, 10 OBJECT
EDITOR

RRSEP86 September/October 1986
LOAN ARRANGER, TURTLE TUTOR, RUN BASIC 1.0, NOTERAD, SIGN
MAKER DATAMAKERSI, DATAMAKER 129, BALANGE SHEET, SWGRAFIX,
F240 THE WOPD, DEMO PONTER, MIRROR, OVERLAY BOOT, SCROLLER,
HALLOWEEN.

RRJAN87

REMINDER 128, PATCH RS125, 128 HI RES DUMP, RETIREZE 12964,
TWIDDLE 128, RAM DISKLOADER, LOAN MANTSS, MODIN HOPHLOHTER,
ADDICALC 128, NOTEPAD 1, NOTEPAD 2, NOTEPAD 3, CROSSWORDS,
SPELLING, SORTER 1, SORTER 2, SORTER 3, CALENDAR, SPLIT WORDS,
SRLITWORDS, MIGHT STATE 1, SATELE 1, SAMPHENT CHOS, MONTHLY
UABELS, LABEL COPY 64, ENVELOPE MAKER, M, MEMU LOADER, 1986
NDEX.

RRMAR87

MENU 64, DEPRINT, PICK A LETTER, C128 SCREEN DUMP, FILE LOCK, RECIPEL, DECALC, MENU PRG. 1, MENU PRG. 2, MENU PRG. 3, 64 EDIT ENKANCER, DATAFLE 36.

RRMAY87

PRESTOWRITE 128, WINDOW 128, HANDY WIND

RRJUL87
TR-SOLITARE, SHOPPING LIST, LINKER 128, INPUT SENTRY, RASH
CAROS, UH. PIECHARTS, DFCLONE, TYPING TACH 128, THE DIRECTORY,
KEYBOARD NUMBERS, PEGBOARD, LOCATOR 64, SPRITE DB 64

RRSEP87 September/October 1987
128 NOTEPAD, TALKING DATA ST., PHASER PHIRE, 64 FLACTION KEYS,
SCREEN GENIE, OUTLINE 128, DIRECTORY WINDOW, ARRAY ARRANGER,
DF COPY, MONEY PROGRAM, 15 PUZZLE, CURSOR COMMOTION, DISK
LIBRARIAN.

RRNOV87 November/December 1987 DOS SHELL, WORLMANY 14, C128 HIRES GRAPH, SNOWFLAKE, SUPER SORT 64, DELETE 64, SIZZAE, BRICKOUT, RUN INVESTOR 129, TENPIN LEDGER, SMART SHOPPER, TAS FINDER, GRAPHICS CATALOG, CASH REGISTER[28]

RRJAN88
RUNTERNIZI, RUNMEMOBOOK, NEWCKSUN SUIZI, CALENDARUMKER,
BLANKT BL, RUNCOPY, WOUSE 128 EDITOR, TIME KEEPER 64, BLANKT
128, SPRITE ML, SPRING, SUMMER, FALL, 1987 MOEX.

RRMAR88 March/April 1988 HOME INVENTORY 128, AFFAIRS OF STATE, BOWLING & I, TIME KEEPER 128, DISPLAY FRAME ANIMATOR, WINDOW CONSTRUCTION SET, C-123 WINDOWS, CURSOR COMMOTION 123, VIDEO RASHCARDS, COMMUND COLLECTOR, MR.POSTER, FCATTASTIC 64.

RRMAY88

MOVING MESSAGES, DRIP DROP, GRAPHIX NAX DRUM, TICK-TICK: 123.
SCRATCH & SAVE, FORM WRITER 64, FORM WRITER 123, SPECIAL
DELIVERY, NOW YOU SEE IT, UNLOCKUP, MATH WHIZ, SPACE TIME
MACHINE

RRJUL88 July/August 1988
ALPHABET CADET, 16-COLOR PRINTER, CCOR CORNICOORS BANDORS 183, TRAVEL TALLY, EVEL'S REVENGE, LOAN MALYSIS, DISK
RESTORER, ISLANDS, NET WORTH CALCULATOR, VIDEO POKER, DISK
FILEHELPER, SEGFILE DESIGN, REMARKABLE DISK DIRECTORY, MOMS
KITCHEN, MEDIUM RESOLUTION GRAPHICS, 1881 DIRECTORY,
KEYBOARD EDITOR

RRSEP88 September/October 1988
TRY TO REMEMBER, PAGE LISTER, CARCS 11, RUBBER BANDT BALL
VACATION CHECKLIST GENERALTER KERNAL PRGI1, KERNAL PRGI2,
KERNAL PRGI3, MUSIC EDITOR 123, QUESTION BOX, EASY BANNERS,
MONKEY SEE, SCARED SILLY, Z'SCORES, JOYSTICK POINTER, FLIPPER

RRNOV88 November/December 1988 TRYMA PANEL MAKER MEASURE MATE 41 CONCENTRATION STATION SAYINGS FORECAST, MASS FLE DELETE, PRIANCE 128, FRIANCE 64 CRAZY CAYERYS, MATH MATCH, ROLODEX REPLACER, KON EDITER, 128 SCROLLER BASIC 72.

RRJAN89 January/February 1989
2001-CALENDAR, MULTITASKING OPERATING SYSTEM, RAISING
RAMBOWS, SCREEN BASIC 94, ADDRESS BOOK 128, CHUMMY
CHECKERS, EXPNOER BUG-FIX, RAM EXPANDER 94, TRACE THE LIGHT,
ALOVE-LY IDEA, MULTI-CCLOR EDITIOR

RRMAR89 March/April 1989 RUNPART, KALAH, MSDOS CCANECTION, YATZEE, MULTITASK FACTOR, AMAZINGI, CRABBIE, KIDNAPPED, 1988 INDEX.

RRMAY89 May/June 1989
MS-DOS FORMATTER, TIC-TAC MATH, BOX SCORES, CALCULATOR,
SOLITAIRE, CALORIE COUNTER, TYPE INVADERS, MS-DOS 64, SPACE
CONDORS, OURCX WRITER 128, AUTOSET, BETWEENS, ANIMATION
MAKER.

RRJUL89 July/August 1989 Runshell, A-Z Scramble, Cubix I, Mousetrap &I, Mousetrap 128, Label Base, Memory Moticn, Thoroughbro racing, Ketchup Attack, Storybook &I, Budget Plus 128

RRSEP89 September/October 1989 GEOSLIDES, CALENDAR 64/129, WORD WONDER, GAMTRY, QUIKMAT, MATCH GAMES, MAZE RUN, FUNCTIONAL KEYS, 3-D SURFACES, GEORIYADERS, THE BATTLE, CUSTOMIZER.

RRNOV89 November/December 1989 RUNCOPY, EMANCED BASIC, WALL STREET 128, AQUA 64, DIRECTORY SPEED LOADER, GRAPH MAXER, SEASONS GREETING, XMAS CAPOLS 128, WRAPAROUND, FAMILY TREE

RRJAN90 January/February 1990 RUNBASE 128, MONEY MANAGER, 128 BUTTONS, FOOSBALL 64, DUO, SUPERFONTS, FAST-40, NICK, BASIC U.S. MAP, MONITOR WEDGE, TRAFFC JAM RRMAR90 March/April 1990 COLOROUT, SPEEDVIEWER, CALENDAR, COLOR OUICK, AFCO, ALPHABET, ALIEN STRIKE, DATER 128, DATER 64, CONNEX, 128 MODE1, 128 MODE2, GRAND PRIX, SNAKE BITE.

RRMAY90 May/June/July 1990 RUNCOPY 123, PARSER, DODGE 'EM, 123 COLORS, BULL'S-EYE, PEGS, EDITOR SWAP, DA-RUNNER, LEDGER CHECK, POWER PUNCH, ALU.

RRSUMMER90 Summer Special 1990 GOCARTS, RECOL, QUICK WINDOWS, CRAZY SQUARES, OUT OF ORDER CANNONADE, PAINTVIEW III, ALLEY WARS, ADDRESS MANAGER, FRANTIC!

RRAUG90 August/September/October 1990
AIR MLES 123, MOUSE, POPTOP, HORSESHOES, SID BASIC, TWRKLE,
TIMECLOCKEL, RUNPAINT, RENAMER, SPRITE MAGICIAN, DEVICE
TOGGLER, APPLE HARVEST, CRGANIZER

RRNOV90 November/December 1990 PRATER CONTROLLER 64128, PLAQUE MAY, MACRO MANIA, TEXT FX, GEOSTRIPPER, PREQUALIFY, GRORUNNER, BEE 54, US-MAP, MARXED SOUARE, GEOS DISK EDITOR.

RRJAN91 January/February 1991 BUTTONS, ENVELOPE ADDRESSER, BATTLING BOAS, QUESTICHNAIRE, VANCUISHI, SAR 128 ASSEMBLER, 80 COLUMNS 84, RANDOM SOUNDS 128, LASER MATH.

RRMAR91

SEARCH-REPLCE, HELP SCREEN SEO SCANNER, DIRDUSPLAY, FREEZE
KEY, COUBLE DISPLAY, SMART SHOPPER, OVERKILL, PTICH 123, ADE

64. CALCULATOR, ESCAPE KEY 123, NDEXER.

RRMAY91 May/June 1991
BOOKDISK 54, PROFILER 64, BOMB SQUAD, CONVERT, MISSILE, SCOREBOARD, VIDEO DATAFILE, WILD EIGHTS.

RRJUL91 July/August 1991
FUEL COMPARE, YOOT, ROAD TEST 64, SUPER KEYS, MOVIE PHILE 64,
RLYBASE II, DISK COPY 64, MATH MATCHER.

RRSEP91 September/October 1991 MULTI-COPY, ROLLERDASH, FRACTION ACTION, KEYPAD IN 54, HALLOWER TREAT, SCRAMBLE, MENU RUNNER, MENU MAKER, SOURCEMASTER

RRNOV91 November/December 1991 PORT AUTHORITY, VOLLEYBOUND, ULTIMATE SPRITE EDITOR 64. CASSETTE TIMEKEEPER, AUTOMENU 64. AUTOBOOT 64. GENERIC DISKMENU, CCMPOSITE MAN, INTERLACE, MUGGINS 128.

RRJAN92 January/February 1992 MAH JONGG, HIPHOP, GRAPHIC CALENDAR CALENDAR MOUSE, FLE PACKER M, MULTI-FORMAT, MOUSE CURSOR 128, MURDER MANSION, CARDS 31, CALCULATOR 128.

RRMAR92
8.000HOUND, RICCHET, COPY REL 54, FLASHCARDS 128, VIDEO
SWITCHEN, YCCYDC, SURRY CHASE, RAGING THUNDER, PSCONVERTER,
SUPER VALIDATE, MULTICOPY II.

RRMAY92
TRAVERSE, STOCK MARKET, STOCK MARKET BLITZ, SUN DIAL 128,
MAGAZINDEX, SUPER AUTO RUN 64, INTERMISSION, CONNECTOR 128.

RRJUL92 July/August 1992 LOOK 4 LOAD, BOWL'N SCORE, LEAP FROG, ROUNDBALL ROUNDUP, PACK RAT 44, PASSWORD 64, RENUMBER 64, PROFILE 128, SCROLLER 129, ANGLER 64.

RRSEP92 September/October 1992 HOT KEY 44, 5TACK 15M 128, CASSETTE MANAGER, PRINT USING DEMO, CRYPTO PUZZLER 64, RUNDISK PRO, BASIC PLUS 64, MENU ENTRY 64, MENU MAKER 64, MENU ENTRY 128, MENU MAKER 128.

RRNOV92 November/December 1992
BOMBARD 64, DIRECTORY SORT, CHECK IT OUT, HAPPY HOLIDAYS,
DROPLINE 128, CAVERNS 64, FACE WADDES, DESKTOP DULLER 128,
DESKTOP DIALER 68 BALLOON DERBY 128, SILICON COBBLER 64.

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Entertainment Software...



In our endless pursuit to bring new products to the Commodore user, CMD has found Electric Boys Entertainment Software (EBES) in the United Kingdom, who remains committed to the development of innovative software for the C-64. As their exclusive North America distributor for their many new game filtes. CMD plans to release a whôle collection of new software during the next year. Your response to these games a graphics and sound used in these never-before released games is unparalleled, and

will dictate whether or not CMD will continue the search for new software titles. The graphics and sound used in these never-before released games is unparalleled, and is sure to renew your faith in the capabilities of the C-64. Our stall and outside testers feel that these new games are among the best that they have ever seen for the Commodore. So stop playing those old games over and over again. And support those companies that are continuing to support you!

HEAVENBOUND

T-Fant is missing!

Curiosity has gotten the best of him, and he's off in search of Heaven. But there's a lot of meanies between T-Fant and the promised land, so it's not going to be an easy trip!

in Heavenbound, you'll assume the role of T-Fant; your average pink elephant with a yearning for adventure. Race against time as you climb your way up through the



dbuds in search of the pearly gates of Heaven. You'll have to battle your way past many strange creatures that will do anything to see that you fail in your quest for the promised land. To aid in your pursuit, you'll have to be on the lookout for the golden pellets that will increase your time, shot power and give you extra lives.

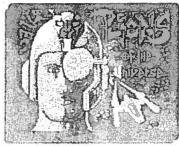
##Eavenbound is a brand new arcade-style game for the C-64 and C-128 (##mode) that features outstanding graphics and superb sound. So grab your favorite joystick or gamepad and say your prayers, you're going to need all the help you can get if you plan to get to the promised land!

HEAVEN

Heavenbound Arcade Game

\$19.95





Electric Boys has done it again with this outstanding space duel! Things have been quiet in the Omacron sector for a long time - that is, until NOW! You must prepare to face the seemingly invincible MEGA Guardians who are all too eager to put an end to your pitiful existence. But wait, in two player mode you have the advantage of having your

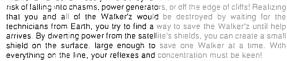
trusted comrade back you up as you brave the corridors of death and confront the MEGA guardians. Either way, it's up to you to fulfill your sworn duty to protect this sector from those despicable intruders from another galaxy. One thing is for sure, the action will be swift and the fighting fierce! Whatever you do, strap on your seat-belt. You're in for the battle of your life!

Lions of the Universe Arcade Game



Walker'z are genetically engineered life-forms, which are programmed to reconstruct dying planets and turn them into class M planets which can support human life. Walker'z do not require oxygen, go weeks without food and water, are 10 times stronger than a man and have a life span of more than 200 years.

In the year 2101, Walker'z are sent to the planet Talia which is about to implode causing a black hole. Only 72 hours remain, when the Walker'z land on the planet, however, shortly after they take up positions, a freak magnetic storn completely erases their memory causing them to run amok across the planets surface. From your satellite, you watch in horror as the Walker'z wander aimlessly where they run the



WALKERZ

Walkerz by EBES

\$19.00

COMING IN SPRING 196 SWORD OF HONOR



The dynasty sword, often called the Sword of Honor, has been in Shogun Yuichiro's family since the beginning of time. Tradition says that a samurai's sword is his soul and that no one else can touch it, which is why the Yuichiro sword has been guarded for centuries. The power-hungry damion, Toronaga, ruler of northem Japan, would do anything to defeat his rival, Yuichiro, ruler of southern Japan. To help in his quest to become ruler of Japan, Toronaga has managed to steal the Yuichirosword Shogun Yuichiro, upon finding that his sword has been stolen, calls you in; his most dangerous ninja warrior, to reclaim his sword and family's honor! As powerful as you are, you must beware, rumor has it that the evil damion has mysterious powers!

Now, if the story line didn't get you, the spec's on this phenomenal game will. Try 2.5 megabytes of compressed data - that's right, four disk sides or one 3.5' disk! Outstanding graphics - over 90 colors on screen! Outstanding Sound! It also features: lethal weapons, vicious hand-to-hand combat, and awesome gameplay! And if that's not enough - 1581, CMD FD, HD and RAMfunk owners can buy a special 3.5' version of Sword of Honor which can be loaded onto these devices! So don't miss this opportunity to get one of the greatest action games ever developed for the Commodore! Also available in PC and Amiga versions.

SWORD

Sword of Honor

\$24.0

PAGE 14

ORDERS: 1-800-638-3263 INFO: 1-413-525-0023

CMD Catalog '96



It is the ye millennium which con corporate to duel to the tanks, white of geometric have mastivill survive Duel offers to bring yo hard press

THRESHOLD



Armed with you enter th the screen Mario Bros different sc retrieve all ; the many dif You begin w any of the st There are fi when you co playing all o For your cor sound effec Slaterman i. everyday sti of instruction SLATER



CMD Cala

... just for the fun of it!



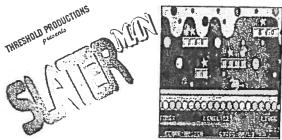
It is the year 3000 AD - technology has grown at an exponential rate for a millennium, and civilization as we know it has given way to large corporations which control the world. Law and order are nonexistent for these huge corporate armies and the only way that disputes can be settled is through a duel to the death. The method by which they duel is fusion powered laser tanks, which attempt to disintegrate each other as they fire through a field of geometric shapes that deflect or absorb each laser blast. Only those who have mastered the technique of banking shots in the direction of their enemy will survive. Play against the computer or in head to head combat. Lazer Duel offers 40 different screens and 80 different levels - each victory is sure to bring you more of a challenge and with the variety of screens, you'll be hard pressed to defeat this challenging game!

LAZERDUEL

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Lazer Duel by Threshold Productions

\$14.95



Armed with an unlimited supply of bullets, a catchy tune and your reflexes, you enter the world of Slaterman, where it is your job to collect every star on the screen within the allotted time. Similar to the phenomenally successful Mano Bros. in screen layout, Staterman is uniquely different and has many different screens and levels. To advance through the game, you must retrieve all the stars on the screen while you avoid contact with or terminate the many different creatures that are put into action to make your life difficult! You begin with three Slatermen and will loose them if you make contact with any of the strange attackers, fall into the water or fail to clear a screen in time. There are five game screens per level and a password may be assigned when you complete each level so that you can advance to that level without playing all of the way through - a nice feature if you want to beat the game! For your convenience, the author has also allows you to play the game with sound effects and music, just music, just sound effects or total silence.

Slaterman is a well designed game which promises a great escape from everyday stresses, but best of all, you can play it without reading volumes of instructions!

SLATER

Slaterman by Threshold Productions

\$14.95

CMD GAME PAD - Tired of that clunky old joystick? Wake up to CMD's GamePad - it will enhance the game-play on all of your games! This unique adaptation of a SEGA controller offers fast fire control with turbo feature, 8 direction thumb control pad and 8 foot cord. Enjoy the smooth operation that Sega players take for granted! Old Commodore games are new again with the all new CMD GamePad!

GAMEPAD Sega-style controller for C64/128 \$24.95

Exciting New Games from CREATIVE PIXELS

A Day in the Life of a Prehistoric Man

A Day in the Life provides hours of entertainment for people of all ages. It is presented as a "Public Network Television Documentary" which is narrated by Salisbury Smythe, the wisecracking host. As a player, you will guide the Prehistoric man through all six of his daily events: Bone Collecting, Dinogoober Hunting, Save Your Mate from the Cave Ape, Escape the Pteranodons, Diamonds in the Rough, and A Mammoth Traffic Jam. It's like six games in one and promises lots of laughs, fun and challenges. PREHIST

Island of the Dragon

This challenging action/role playing game is set on a remote island full of prehistoric creatures which Jack Roberts must defeat in order to save his girlfriend from the evil Reptilican. Jack fights his way through seven locations where along the way he defeats prehistonic creatures to gain strength, and collects the tools he will need to get to the Fort of the Replican. ISLAND

Wings of Circe

Odysseus has been abducted and must be saved. Circe is told of this by a wizard and is transformed into Pegasus to begin your quest. You must win four arcade-style battles before meeting the kidnapper in the final battle! WINGS \$19.00

Escape Route-The Adventures of Eric Hawthorne, Pl

You've got three weeks to recover the ACME diamond which was stolen by the IceLady, who has managed to put 4,000 miles between you! There are many challenging events that lead to her capture: Piano Drop, Roulette Expenses, Driving, Gems, The IceLady's Castle and Flat Tire. Escape Route promises outstanding graphics and sound.

ESCAPE

\$19.00

RUN Game Bundles - Any 3 for only \$18

RUN 128 Funpak

A rare collection of games for the C-128 Includes Bloodstar, Cubix and Mazamorf for 40 column mode, and Gwynell, Death Quadrant, Sye Bye Brick and Nighthawk for 80 col. mode

FUNPAK

\$10.00

RUN C-64 Gamepak

A host of games for the C-64 Includes Ski, Hassle Castle, Chopper RUN. Snakes, Shell Game, Bugs, Trap Shoot, Shuffle, Lava Pit, Mad Adder, Scrambler, Tag, Quatro, Taxman, Findword, Mystery, Battleship, Symbol and Zelax.

GAMEPAK

RUN C-64 Strategy Games 1 & 2

A two disk collection of strategy games to challenge your abilities. includes Peg-Solitaire, Pegs, Tri Solitaire, Boxes, Stack, Video Poker, Chummy Checker, Number Puzzle, Islands, Slides Cards 31, Yatzy, Quattro, Peg Board, Mystery, Duo, Maze, Kalah, Puzzlesand more.

STRATEGY1/2

RUN Educational Pak I & 2

Great fun for school aged children, this unique collection of educational games teaches math, presidents, spelling, geography and more. Two fun packed disks for the price of one.

EDPAK1/2

RUN Educational Paks 1 & 2

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More Fun & Games...



Atomino

A challenging game as you race the clock to form molecules from the atoms provided. The next atom provided may just not be the one you want!

ATOMINO



Blood Money

Head out on a space-age alien safari across four planets, and collect your bounty as you blast your prey. Fast paced action! BLOOD



Ballistix

Hi-tech sports with an arcade feel, Ballistix is like Marble Madness, soccer and an arcade shoot-emup all rolled into one. Intense!

BALLISTIX



Mainframe

We've all seen movies depicting the battle between man and a computer bent on destroying him. Now it's your turn to win that battle! \$13.00



Chomp!

A great game for youngsters. Find out about survival from the viewpoint of a fish; avoid being eaten by the bigger fish!

CHOMP

\$10.00



Total Eclipse

Alone in a vast Egyptian pyramid, you face horrors beyond your wildest dreams. But you forge ahead knowing this could be your greatest find - or your last! \$10.00



Rings of Medusa

Battle to find the five rings of Medusa and regain your kingdom in this superb role playing game. Great for first-time RPG players.

MEDUSA





Skate or Die

Zany skate-board action tests your skill and reflexes Experience the thrills and spills - without the hospital bills!

SKATE

Menace

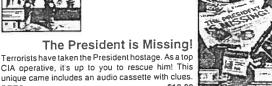
Your mission: Destroy the planet Draconia. Level after level of arcade action as you blast your way through planetary defenses. \$15.00

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An action/strategy game with dynamite graphics that puts you in charge of an elite team ready to meet the challenge of any mission.

\$13,00 LASERSQ



The President is Missing!

CIA operative, it's up to you to rescue him! This unique came includes an audio cassette with clues. PRES



Navy Seal

Join the Navy's elite force on missions of espionage, sabotage and rescue. Action and adventure abound in this exciting simulation.

NAVY



The Amazing Spider-Man

Help Spidey rescue Mary Jane from Mysterio's clutches. Over 250 screens packed with action! SPIDER



The Three Stooges

Join those zany masters of mirth as they try to save and old lady and her 3 beautiful daughters from an

evil banker! STOOGES

\$10.00



Tie Break Tennis

Thrilling realistic tennis action combine in this sports simulation. Loaded with options and covering all major tournaments.

\$16.00





MENACE

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CMD

ULT5 PAGE 16

is probably the best of the Ultima series and quantities are limited!

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who has seized the throne in a quest for power. This

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Beginners Guide to the InterNet

Disguised as a humorous detective-novel parody, Simple Internet cracks the NtiT cross wide open Learn how to make the internet work brilyou You will learn how to dend and the internet york entryou Yo) will learn now to dend and retrieve in prination learning the Internetion supply Highway. From simple E-MAIL to connecting with huge databases like NASA, this book shows you how. So don't be intimidated by the Net, let Simple Internet beyour map to the Super Highway

SIMPNET

Mapping the C64/64C

A great reference for any C64/64C user. CMD's tech staff rates this book as a MUST HAVE! It offers a complete memory map of the C-64/64C. Not only does it identify the memory but it also tells you how to access it from your own programs and provides detailed practical examples of how to utilize this memory.

Mapping the C-64/64C by compute!s

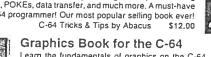
Ideas for Use on Your C-64

Dozens of helpful and fun programs to type into your C-64. including auto expense minder, store window advertiser, strategy games and computer poetry

IDEAS Ideas for Use on Your C-64 by Abacus \$12,00

Commodore 64 Tricks & Tips

A collection of easy-to-use programming techniques covering graphics, POKEs, data transfer, and much more. A must-have for any 64 programmer! Our most popular selling book ever! TRICKS



Learn the fundamentals of graphics on the C-64, including computer aided design, sprites, animation, and more. Sample easy-to-follow program listings are included.

GRAPHIC Graphics Book for C-64 by Abacus



Covers the use of DOS commands and includes numerous examples and sample programs, plus a complete listing of the 1541 DOS ROM. A must for any programmer!

ANAT1541

Anatomy of the 1541 by Abacus \$12.00



Printer Book for the C-64

An in-depth look at what you can do with your 64 and a printer. Covers interfacing, printing graphics, formatting program listings, and more.

PRINTER Printer Book for the C-64 by Abacus \$12.00

Science & Engineering for the C-64

A valuable reference for serious Science and Engineering applications. Covers variables, computational accuracy, sort algorithms and more. Provides examples and program listings for chemistry, physics, biology, astronomy and electronics. SCIENCE Science & Engineering for C-64by Abacus



Compiler Design & Implementation

An introduction to writing compilers which covers: Compiler fundamentals, Language design, Lexical, Syntactical and Semantical Analysis, Generating 6502 code and Interfacing to the operating system. A must for serious programmers!

COMPILERDES Compiler Design by Abacus



MAPPENG.

64 & 64C

The same is a

BASIC 128 Training Guide

A superb reference for programmers and a great introduction for beginners. This book covers everything you need to know about programming in BASIC 2.0 & 7.0 on the C-128.

BASTRN

C-128 Computer Aided Design

Discover professional design techniques and learn the fundamentals of CAD, 3-D drawing, and more with this definitive C-128 CAD book. A perfect companion to CADPAK 128!

CADBOOK

\$12.00



issue Number 8



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CW-5 Issue Number 5
GEOS 101, GEOS, 102, GEOS 103 and more
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CW-8 Issue Number 9 CW-9 CW-10 Issue Number 10 sembler, More New Gam CW-11 Issue Number 11 view, Internet/Unix, BBS Issue Number 12 Drive History CW-13 Issue Number 13 ML GeoKeys, Type-in Issue Number 14 rs, Annual User Group List the wide array of regular

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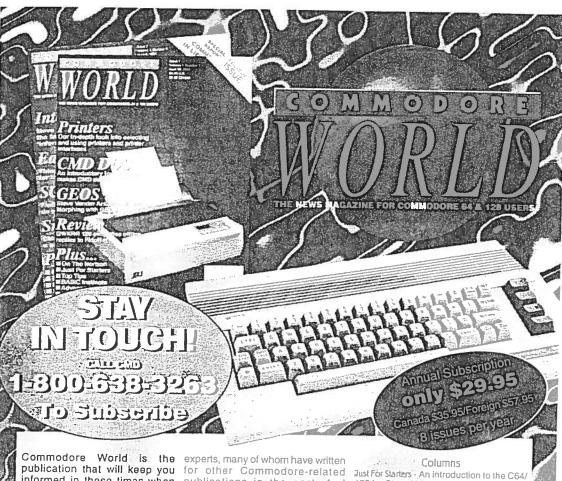
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informed in these times when up-to-date information on Commodore computing is so hard to find. Published by Creative Micro Designs, the industry leader in development of C-64 and C-128 related products for over eight years, Commodore World will supply you with information on what's new, what's still available, and above all else-where to get it. If you felt you had nowhere to turn to for Commodore support, turn to the pages of Commodore World for a wealth of resources ready to help you get the most from your computer!

You'll find Commodore World feature articles informative and easy to read; what's more, they're written by leading authorities and

publications in the past. And Commodore World has something

lor everyone, whether you're a novice or an experienced programmer.

And while our feature articles help to cover different subjects in each issue, regular columns and departments provide on-going discussion of various topics, news and events. You'll lind columns that cover BASIC, ML and GEOS programming; hardware & software tips and projects; GEOS; peripherals, foreign market news, GEOS; reviews, telecommunications and more.

So, if you really want to get the most from your Commodore, There's no better way to get it than Commodore World!

Just For Starters - An introduction to the C64/ 128 by Steve VanderArk

Foreign Exchange - An inside look at the market in Europe by Joseph Gaudi Graphic Interpretation - GEOS, GEOS and more GEOS by Steve VanderArk geoProgramming - GEOS programming

techniques by Maurice Randall

BASIC Instincts - BASIC tutorials and type-in

programs by Gene Barker Jim Buttefield's ML Column - Probably the best known name in our industry, Jim covers every aspect of programming in ML

Peripheral Vision - Technical insights to C-64/ 128 hardware peripherals

Carrier Delect - Exploring every facet of the Telecommunications experience Over The Edge - Editorial covering various computer related topics and news

Departments

From The Editor · BackTafk · On The Horizon Just Asking • The Connection • Top Tips User Group Connection • Trivia • BBS Spotlight

...Hardware



CMD FD-2000 High Capacity 3.5" Disk Drive

The powerful new 3.5° high capacity drive from CMD are backwardly compatible with Commodore's 1581 (800K) drive – but this drive does a whole lot more! Its High Density drive offers an amazing 1.6 MB storage capacity or twice the capacity of the 1581 while also remaining compatible with Double Density disks.



The FD-2000 also features built-in JiffyDOS, optional real-time-clock and is ideal for virtually every application including GOES! See the CMD device section for details.

FD-2000	FD-2000 800K/1.6MB Floppy Drive	\$179,95
FD-2000RTC	FD-2000 800K/1.6MB Floppy Drive w/RTC	\$199.95
	Real-Time Clock Option for FD Drives (attermarket	\$29.95

CMD HD Series SCSI Hard Drives



Mass storage devices for the Commodore 64 and 128, ready-to-use with no messy installation. Easily attached directly to your serial port like any other drive, these hard drives come complete with a real-time-clock, utilities, copy programs, and User's Manual. Compatible with GEOS, CP/M, BBS's and many

other applications. Perfect for anyone who wants to eliminate disk clutter and faster access to your valuable data and programs! See the CMD device section for complete details.

HD-40	40 MB Hard Drive	CALL	40 MB upgrade	CALL
HD-100	170 MB Hard Drive	CALL	170 MB Upgrade	CALL
HD-500	500+ MB Hard Drive		500+ MB upgrade	\$239.00
HD-1000	1 GB Hard Drive		1 GB upgrade	\$350.00
HD-2000	2 GB Hard Drive		2 GB upgrade	\$725.00

Upgrade prices above apply to any existing HD and include new drive mechanism, controller checkout and upgrade (if required), new DOS installation, latest utilities, and 6 month warranty. Due to the ever changing drive market, please call for capacities & pricing before ordering.

CMD RAMLink RAM-based Drives

RAMLink provides your computer with an ultrafast RAM-based drive that retains programs and data even while your computer is off. The optional backup battery provides security for data during power failures. RAMLink offers access to up to 16 MB of RAM, has a Pass-Thru port for use with other cartridges, and a RAM



port for use with existing REU's or GEORAM. A parallel interface allows high-speed connection to CMD's HD Series drives. Built-in JiffyDOS routines simplify disk access and speeds operation with JiffyDOS-equipped disk drives. Perfect for GEOS, Telecommunications, productivity and more. See the CMD device section for complete details.

RL	RAMLink Base Model, no RAMCard, no RTC	\$149.00	
RAMCARD.	RAMCard, 0 MB, no RTC	\$49.00*	
RL1*	RAMLink w/RAMCard, 1 MB, no RTC	\$229.00°	
RL4*	RAMLink w/RAMCard, 4 MB, no RTC	\$349.00*	
RTCKIT	Real-time-clock option (as aftermarket add-on)	\$19.00	
RL BATTERY	RAMLink Backup Battery w/cable	\$24.00	
RL-HD CABLE	RAMLink to HD Parallel Cable (14-pin DIN)	\$15.00	
RLDIRECT	Optional RL DOS for use w/ SwiftLink and REU	\$15.00	
1SIMM	1 MB SIMM	CALL	
4SIMM	4 MB SIMM	CALL	
JUMPER	RAMLink Timing Jumper Clip	\$4.00	
(°) Add \$1	0.00 for RTC option at time of RL/RAMCARD purchase	•	

Commodore 1541/1541C (Single Sided 5.25")

The 1541 is the standard in 5.25" single sided disk drives (170K) for the C-64 and can be identified by its internal power supply. These trusty old work horses are ideal for backup drives or as a replacement for an ailing drive. As is true with all of our drives, new and refurbished, each one has been put through a rigorous test and has been equipped with JiffyDOS to ensure



that these drives have the latest ROM revisions and will operate up to ten times faster on JiffyDOS equipped computers.

41DR

1541 or 1541C Disk Drive (Refurbished)

\$89.00*

Commodore 1541-II (Single Sided 5.25")



These 5.25° disk drives (170K) are fully? compatible with the original 1541, offer a more compact design, external power supply, device selection switch and are equipped with JiffyDOS. Thoroughly lested by our team of technicians, they are a perfect upgrade or replacement drive

for any system and will provide years of reliable service.

41HDR

1541-It Disk Drive with power supply (Refurb.)_\$109.00*

Commodore 1571(Double Sided 5.25")

Originally designed for the C-128, the 1571 offers both 64 and 128 users a 5.25" double sided floppy drive (340K) with fast serial compatibility on the C-128. They also feature a device selection switch, and through the use of the *Big Blue Reader*, are capable of reading and



writing MSDOS formatted disks. These drives are JiffyDOS equipped and fully tested by CMD's technicians.

1571 DR 1571 Disk Drive (Refu

1571 Disk Drive (Refurbished)

\$119.00

* Refurbished drives include: Drive, Power Supply or Cable, Serial Cable and JiffyDOS

Vervoe needs a 5.25 Veryot det des vers Rough of

- Everyone needs a 5.25° floppy disk drive. Why? Because most Commodore software was released on this format. In order to copy programs to different disk formats, you must first be able to load it.
- 2. If you are buying a secondary storage device for your system, you should consider your requirements carefully. With today's technology, it may make more sense to invest in something other than another 5.25° drive. Speed, capacity, compatibility and data security are all issues that should be considered. For example, 3.5° drives offer superior speed, capacity and above all-security! 3.5° disks are much more durable and are less susceptible to damage from their environment. If you have large amounts of data to store, a hard drive should be considered, as they are faster than a 3.5° drive and allow the storage of your software in a single location. When speed is most important, RAMLink must be investigated, as RAM will load data in the matter of a second or two.
- 3. Remember that with new technology comes better refiability and performance which will without a doubt make your Commodore more productive for you. Don't listen to anyone who says your Commodore is outdated a new drive may be all you need! CMD's technical staff is always here. If you need help, we'll be happy to help you select the right storage device for your needs. Call 413-525-0023 (9AM-5PM EST).

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More Hardware...

COMPUTERS



C-64 & C-64C Computers These computers have gone through extensive testing in CMD's service center and have been fitted with JiffyDOS. Refurbished units carry a 30 day warranty. All units come with CPU, power supply and JiffyDOS users manual.

COMP64 COMP640 C-64 Computer (Refurbished) C-64C Computer (Refurbished)

\$99.00 \$119.00

Commodore C-128 Computer Offers four operating modes: 64 mode, 128 40-column mode, 128 80-column mode and CP/M, C-128's offer 128 K RAM, 16K Video RAM, a 2 Mhz processor, RGBI (80 col.) and composite (40 col.) video outputs, Extended keyboard and Fast Serial. They come with

CPU with JiffyDOS and a 30 day warranty.



COMP128 COMP128PS C-128 Computer (Refurbished, No P.S.) \$129.00 C-128 Computer (Refurbished, with New P.S.) \$179.00



Commodore C-128D Computer CBM's latest offering on the C-128 platform, these computers offer all of the C-128's features plus a built-in 1571 Disk Drive, 64K Video RAM, External Keyboard and Internal Power Supply. As an added feature, CMD includes a complete JiffyDOS system for faster disk access and ease of use

COMP128D

C-128D computer (Refurbished)

MONITORS

(All monitors are refurbished - cables not included) (A shipping surcharge will be applied to all monitors)

Commodore 1701 & 1702 - 40 column composite color monitors are among the first of the C-64 compatible monitors and offer a number of features ke: single composite input; separate Luma and Chroma inputs, Audio input, and a full compliment of indeo adjustments. These monitors are great for the C-64 or C-128 and make an inexpensive video monitor.



CON1702B

1701 or 1702 40 col. Composite Monitor



Commodore 1802 - 40 column composite color monitors represent the second generation C-64 compatible monitors and may be used with the C-128 in 40 column mode. 1802 monitors features a more modern appearance and include composite and separate Luma and Chroma inputs along with a host of monitor adjustments.

1802 40 col. Composite Monitor

\$139.00

40/80 column Color Monitors - Ideal for use with the C-128 or as a video monitor, all models feature 40 color composite and 80 column color RGB modes. At the present time, these monitors are only available as refurbished units. Features and prices are dependent on the individual unit. Contact CMD for current pricing and availability



GAMEPAD

CMD's SmartTrack - Trackball

CMD GAME PAD - Tired of that clunky old joystick? CMD's GAMEPAD is the answer! This unique adaptation of a SEGA controller offers fast fire control with turbo feature, 8 direction thumb control pad and 8 foot cord. Enjoy the smooth operation that Sega players take for granted! Adds a new dimension to any new or old Commodore game!

C-64/128 compatible Sega controller

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ENHANCEMENT SYSTEMS

BARTER

The ultimate disk drive speed enhancement system, JiffyDOS is a set of replacement ROM's for your computer and disk drive. It speeds up all disk file access without compromising compatibility. JiffyDOS also adds convenience features making your system faster and easier to use. Features include a built-in DOS wedge command set to simplify commands programmable function keys, a two-drive file copier, a

text screen dump function, default device selection command and function, output device toggle for easy printer listings, and more. See the CMD Hardware Section for more details.

64/64V4*-drive, 64SXSystem - specify serial number and drive \$49.95 128-drive, 128D System - specify drive \$59.95

Computer ROM only - specify serial number \$32.95 64. 64V4° 128, 128D-K Computer ROM only

drive Drive ROM only - specify drive (see below) \$24.95
"Note: 64V4 designates the Commodore 64C Rev E (S/N Required)
Codes for drive: 1541, 1541C, 1541II, 1571, 1571D, 1581, BCD128 (Bluechip), BCD525 (Bluechip), CSD1 (Cardco), FD148 (Swan/Roctec), FD168 (Swan/Roctec), FSD1 (Oceanic), FSD2(Oceanic), EN2000 (INDUS), MSD, RF501, RF512 (Roctec)

NPITED EVICES

BP Pro-Stick Joystick - Combine solid feel with an equally sturdy design and you've got a joystick which can hold up to years of service, whether you're fighting the evil empire or cruising the streets of Monte Carlo. Features left and righthand fire buttons, handle-tip fire button and a contoured handle for surefire control.



A PARTITION

JOYSTICK

CMD SmartMouse - The ultimate 1351 compatible mouse brings the quickness and maneuverability of a PC mouse to the C-64/128. The preferred input device for GEOS and many other applications, the SmartMouse gives you more control over pointer movement, drawing functions, and menu control. It can also be operated in joystick mode to emulate a joystick for applications without mouse support, comes equipped with three buttons, real-time clock, plus software for use with GEOS and your own BASIC programs.

MOUSE

CMD's SmartMouse

as it moves over the pile of papers and magazines

that are strewn across your desk? Or do you just

have a limited desk space to maneuver a mouse?

Here's your answer... The CMD SmartTrack! It's

the first and only 1351 compatible trackball for

the C-64/128! Packed with the same great

features as CMD's SmartMouse, it offers you the easy and stationary operation of a trackball!

\$49.95

CMD SmartTrack - Tired of your mouse skipping

MONBOCOL 80 col. RGB/40 col. Composite Monitor CALL

TRACKBALL

\$24.95

PAGE 20

MON1802R

ORDERS: 1-800-638-3263 IRFO: 1-413-525-0023

... to Improve Performance

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The Light Pen by Inkwell Systems

The Light Pen by Inkwell Systems is the only input device of its kind for the Commodore C-64 and C-128 computer. Light pens provide an easy-to-use, natural way of entering data that children and adults alike can quickly master with little or no prior computer experience. The Light Pen may be used immediately as an input device with many popular software packages and your own programs. Software compatibility includes: Flexidraw, Flexifont, Graphics Integrator 2, Cadpak 64 & 128, Micro Illustrator, Picasso's

Revenge, GEOS, Prospectives II, and Blazing Paddles, just to name a few. Light pens are a fantastic way to actually draw on-screen with programs like GEOPAINT. However, not every drawing program is compatible. You should refer to your software's owners manual for information on compatible input devices. An extensive manual with technical data is included, as well as demonstration software.

LIGHTPEN

Light Pen 170C by Inkwell Systems

\$75.00

CALL

Printers

Cannon BJC-4100 Color Bubble Jet The BJC-4100 offers high speed, high resolution black or color printing. This model is ideal for the average user who uses black most often and likes to spice up their document by adding color. Separate black(Optional) and color cartridges optimize ink usage and help keep ink costs to a minimum. With the optional black cartridge (BC20), your output can be twice as fast or you may choose the high resolution mode (360 x 720). Cannon - great performance at an affordable price. (Interface Required)

BUBBLECINKB BUBBLECINKC Cannon BJC-4100 Bubble Jet Printer
Black Ink Cartridge for BJC-4100 (BC20)
Color Ink Cartridge for BJC-4100 (BC21)

Panasonic KXP-2135 24 Pin Color Printer

Specifications: Resolution: 36 x 360 dpi; Centronics Parallel Interface: 14 K Buffer Expandable to 32K; LQ Mode 83 CPS; Draft Mode 250 CPS; Carriage 11.7*; Rear and Top Feeds; LQ860 and IBM Proprinter x24e emulations; Fonts: 3 draft, 7 LQ; 20 page built-in sheet feeder. Requires GEOCABLE or Serial to Parallel Interface (MW-350) for use with C-64/128.

PRINTER24C Panasonic KXP2135 24-pin Color Printer \$299.00

Panasonic KXP-2023 24 Pin Printer

Specifications: Resolution: 360 x 360 dpi; Centronics Parallel Interface; 14K Buffer Expandable to 45K; LQ Mode 80 CPS; Draft Mode 240 CPS; Carriage 11.7°; Rear and Top Feeds; LQ850 and IBM Proprinter x24e emulations; Fonts: 3 draft, 4 LQ. Requires GEOCABLE or Serial to Parallel Interface (MW-350) for use with C-64/128.

PRINTER24

Panasonic KXP2023 24-pin Printer

\$229.0

Panasonic KXP-1150 9 Pin Printer

Specifications: Resolution: 240 x 216 dpi; Centronics Parallel Interface; 4K Buffer Expandable to 86K; NLO Mode 32 CPS; Draft Mode 240 CPS; Carriage 11.7*; Rear and Top Feeds; FX850 and IBM Proprinter emulations; Fonts: 3 draft, 4 NLO. Requires GEOCABLE or Serial to Parallel Interface (MW-350) for use with C-64/128.

PRINTER9

Panasonic KXP1150 9-pin Printer

\$169.00

Note: GEOS users may need special print drivers to support newer printers. As a service, we have compiled a disk with drivers for 24 pin, color. Canon inkiet, and geoCable connected printers, etc. The GEOS Drivers and Extras disk is available for \$10.00 plus shipping. This disk is included with the geoCable II but may be purchased separately.

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Micro R&D Printer Interfaces

The MW-350 printer interface connects modern Centronics printers to the serial bus on Commodore C-64 and C-128 computers. Capable of translating both text and graphics, it is available in two models; the basic interface (Jr.) and the deluxe interface (Sr.) which has a built-in 8K buffer. The MW-350 offers

correct graphics/text aspect ratio for most major printer types, easy access configuration/mode switches and built-in reset button. The MW-350 by Micro R&D has become known for its simplicity and reliability.

PRINTJR PRINTSR MW-350 Junior (Includes 0K RAM Buffer) MW-350 Senior (Includes 8K RAM Buffer)

\$49.00 \$60.00

GEOCABLE II Parallel Print Cable

Connects modem IBM compatible Centronics printers via the User Port on your C-64 or C-128. Parallel print cables are supported by GEOS. Superbase, and other productivity programs which are written to use parallel printing. For additional software compatibility with nonparallel programs, you may want to look at the Action Replay cartridge later in this section. It has a feature that enables centronics parallel printing with most software applications. GEOCABLE II offers speed



increases up to 200% over conventional serial interfaces, built-in switchable pass-thruport, DB25 connection, and GEOS software included. GEOCABLE II is ideal for use with any Samsung or Cannon printer.

GEOCABLE GEOCABLE15 Parallel Print Cable (6 ft.) Parallel Print Cable (15 ft.) \$29.00 \$34.00

PORT EXPANDERS



EX3 & EX2+1 Cartridge Port Expander

CMD's all new cartridge port expansion cards offers three vertical ports, a reset switch, and individual e i g h t position port switches, which offer the flexibility of completely enabling or disabling the entire port or the following individual signals: +5 GAME, EXROM, ROMH.

ROML, IO1 and IO2. Additionally, the middle port features a IO1/IO2 (SDE00/SDF00) swap switch. What does all that mean? Simply that these are the most complete, configurable and compatible cartridge port expansion devices ever conceived. This unit is ideal for use with REU's, Utility cartridges, SwiftLink, SID Symphony and most other cartridge port

Utility cartridges, SwiftLink, SID Symphony and most other cartridge port devices. The only difference between the EX3 and the EX2+1 is that the EX2+1 has two vertical ports and one horizontal port.

EX2+1

CMD EX-3 Cartridge Port Expander CMD EX-2+1 Cartridge Port Expander

\$29.95 \$34.95

Aprotek User Port Expander and User Port Extension Cable



Having been produced for many years, their designs are tried and true. The User Port Expander is equipped with three horizontal ports each with individual enable/disable switch. The Aprotek User Port Extension Cable is a convenient way to get that user port device out of your way!

APROUPX3

Aprotek 3 Way User Port Expander Aprotek User Port Extension Cable

\$30.00 \$19.00

CMD Catalog '96

Orders: 1-800-638-3263 Info: 1-413-525-0023

And Still More Hardware...

Telecommunications

SwiftLink High-Speed Interface

SwiftLink is an RS-232 interface for the Commodore C64 and C128 which offers true high speed communications at baud rates of 300 from 38,400 baud. This enables Commodore users to use the latest high-speed modems available (See our high speed modem packages listed below). SwiftLink can also be used to connect your Commodore C64/128 directly to other computers (IBM, Macintosh, Amiga) via a null-modem cable for direct transfer



of data at high speeds. SwiftLink plugs directly into the C64/128 expansion (cartridge) port, comes equipped with a standard DB9 connector and a NMI/ IRQ switch. SwiftLink also comes with file transfer and terminal software.

SL	SwittLink Cartridge	\$39.95
SLCABLE	DB-9 to DB-25 Modern Cable	\$9.95
NULL25	DB-9 to DB-25 Null-Modem Cable	\$9.95
NULL9	DB-9 to DB-9 Null-Modem Cable	\$9.95

Boca External 2400/14.4K/28.8K Baud Modems

Made in the U.S.A. by BOCA, these high-quality moderns interface to C-64/128 computers via SwiftLink. Fully Hayes-compatible, these moderns support baud rates of up to 28,800 baud. There are three models: the 28800E 14400E and 2400E. The model numbers indicate the baud rate, but with compression, the two high speed modems reach 115,200/57,600 baud respectively. All three models support two separate modem configurations, support tone and pulse dialing, auto-dial, auto-answer and full or half-duplex communication. Auto speed-sensing of incoming calls assure highest connection rate, and adaptive equalization improves transmission quality over noisy telephone lines. The



28800E and 14400E offerv.42bis, MNP 2 through 5, Group 3, Class 1 and 2 Fax protocol which is required to run GEOFAX which should be available by Fall 1995

		,
BOCA24	Boca 2400E only	\$69.00
BOCA24SL	Boca 2400E with SwiftLink and cable	\$99.00
BOCA14	Boca 14400E only	\$129.00
BOCA14SL	Boca 14400E with SwiftLink and cable	\$159.00
BOCA28	Boca 28800E only	\$199.00
BOCA28SL	Boca 28800E with SwiftLink and Cable	\$229.00

Aprotek Minimodem C and C-24

100% C-64/128 compatible, Aprotek Minimodems come ready to use. Simply plug it into the user port and you're ready to cruise the information super highwayl Both the Minimodem C (1200 baud) and the Minimodem C-24 (2400 baud) offer full Hayes and CBM 1670 compatibility, seven status lights, Busy Detect, DTR signal support, High-Speed Detect Line, Auto Answer/Auto Dial and terminal software,

APROMODEM12	Aprotek Minimodem C (1200 Baud)	\$50.00
APROMODEM24	Aprotek Minimodem C24 (2400 Baud)	\$69.00

Aprotek Com-Modem-Adapter

Aprotek's affordable solution to connecting your Commodore to an external modem. The Com-Modem-Adapter allows you connect any external Hayes compatible RS-232 modem up to 2400 baud to the C-64/128 user port. The Com-Modem-Adapter is compatible with the BOCA 24 listed above.

APROADAPT	Aprotek Com-Modem-Adapter	\$19.00
APCABLE	APROADAPT to Modem Cable (DB25M-25M)	\$9.95

Commodore 300 & 1200 Baud Modems

Commodore's Modern 300 (1660) or Modern 1200 (1670) is a logical choice for users on a low budget or just starting out in telecommunications. Reliable and designed for the C-64/128, these modems are NEW and in original box. 1660

Commodore Modem 300

Dialogue 128

Advanced communications software for the Commodore 128 (80 cols). Supports a wide range of modems at speeds up to 38.4K baud. Offers Punter, XMODEM CRC/CHK, XMODEM-1K, YMODEM Batch, and Quick-B protocols. Terminal emulation for ASCII, IBM, VT-52/100 and Commodore Graphics. Large buffer with editor, split screen chat mode, and script language. Compatible with SwiftLink and CMD devices

DIALOGUE Dialogue 128 \$29,00

MISCELLÂNEOUS GARTRIDGES

SID Symphony Stereo Cartridge

Instantly double the number of sound voices in your Commodore 64 or 128! SID Symphony has its own output which can be combined with the computers output, or plugged into your

stereo. Plays hundreds of mono and stereo SID files available in public domain. SID Symphony comes complete with stereo player and many sample songs for your enjoyment. Makes a great gift!

SID Symphony Stereo Cartridge

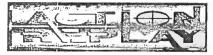
\$44.95

Sentech MIDI Interface

Ideal for use with the SONUS Super Sequencer, the Sentech MIDI interface will allow you to connect your C-64 or C-128 to a host of keyboards, drum machines and sound generators. Through the use of MIDI, musicians can create, blend and edit original music without paying for expensive studio time. If you are just getting into MIDI, check out the savings on our MIDI Intro Packages which include: Sonus Super Sequencer 64 or 128, Sentech MIDI interface and MIDI cables.

MIDIINT Sentech Midi Interface MIDICABLE 6 foot Midi Cable

\$59.00 \$4.95





Imported from Datel in England, AR VI is the ultimate utility/backup cartridge for the C64/128. A.R. VI is loaded with powerful features and utilities. Its freeze feature is the most effective method for removing copy protection from commercial software, which is a necessity if you want to load your software onto today's powerful storage devices such as CMD hard drives, RAMLink and FD Series drives. Simply load the program you wish to copy, push the freeze button and save it to a new disk...it's that easy! You may be asking why this is more effective than a parameter copier? Freeze carnidges make their copy by taking a picture of the program after it is in the computer's memory. This is in nortant because in most cases the software, once in memory, no longer has its copy protection intact. Parameter copiers or the other hand

only make an exact duplicate of the risk being copied, only make an exact duplicitie of the pisk denig copied, copy protection and afficiency like if you orly want to run it from the fame drive type. However, to run a program from metiple disk formats; i.e. 15.1, 1581, FD, HD in RL, you austremove the protection!

In addition to the freeze feature. A.R. /I features a whole New of hardy features and unities including: a built-in Centronics interface which allows most software to benefit from the speed of a GEOCABLE built-ig disk and file copiers, built-in ML monitor, blowup lets you blow up and segment of a picture to full size of screen, message maker allows you to turn any screen or graphic into a scrolling message with music, infinite lives generator for your favorite games, screen editor, printer dump, slide show maker, and more

ACTION Action Replay Mark VI w/ Graphics disk

ORDERS: 1-800-638-3263 INFO: 1-413-525-0023

CMD Catalog 96

\$59.95

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...to Upgrade Your System

ANNING & PAGE LAYOUR LEVEL BLANC DIEKE/DEK CAGES



Handy Scanner

Produced by Scanntroniks, one of Germany's leading hardware producers for the C-64, the Handy Scanner is the first and only hand

scanner for the C-64. It includes many of the features you expect to find in PC scanners that

cost hundreds more, such as 400 dpi resolution. B/W setting for crisp reproduction of line art, elaborate grey-tone scale digitizes color or B/W photos using 3 dithering settings, full featured drawing program included, scale images from 33% to 300% and standard graphics memory allows images up to 640 x 400 (640 x 800 w/ Pagefox). Full English manual included.

HANDYSCAN

Handy Scanner by Scanntronik's

POSSON

freeze,

GERI/ANY



Pagefox

A full featured desktop publishing cartridge and the perfect companion to your Handy Scanner, Pagefox includes full

featured, menu driven graphics editor, text editor and page fayout editor. Additionally, Pagefox stores an entire page in 100K of built-in RAM, and allows the Handy Scanner to scan larger single images (up to 640 x 800). Pagefox can be controlled by a proportional mouse, trackball or joystick for maximum

flexibility in manipulating text and graphics. Pagefox is a great desktop publishing program and is ideal for use with the Handy Scanner.

Pagefox DTP cartridge by Scanntronik

GERMANY

25DSDD5 10DSDD3 HD10 ED10 ED FILE25 FILE50	25 - DSDD 5.25" Disks (1541/71) 10 - DSDD 3.5" Diskettes (1581/FD-2000/4000) 10 - DSHD 3.5" Diskettes (FD-2000/4000) 10 - DSED 3.5" Diskettes (FD-4000) Single DSED 3.5" Diskettes (FD-4000) Flip-n-File 5.25"-25 pc. locking disk case Flip-n-File 5.25"-50 pc. disk case	\$10.00 \$10.00 \$14.95 \$29.00 \$4.00 \$5.95 \$8.95

C-64 & C128 Power Supplies These top quality power supplies for the Commodore C64, 64C, and C-128 are housed in sturdy metal cases and are fully repairable. Manufactured by Micro R&D and CMD, these supplies carry a 6 month warranty.

POWER64 POWER64HD POWER128

C-64/64C P.S. (5VDC@1.8A, 9VAC@1A) Heavy Duty 64 P.S. (5VDC@3A, 9VAC@1A) \$56.95 C-128 P.S. (5VDC@3A, 9VAC@1A) \$56.95

C128-D Power Supply Original Commodore 128-D internal power supplies. These units are new and are still in the original packages them as a direct replacement or as a spare - but get them while they last!

POWER128D C128-D Internal Power Supply

1541-II, 1581 & RAMLINK VERSION 1 POWER SUPPLIES Hard-tofind, these supplies come from numerous manufacturers; all adhere to or exceed Commodores standards, and may be used as a direct replacement for any of these drives

POWER1581

1541-II, 1581 & RL V.1 Power Supply

1571 INTERNAL POWER SUPPLY These hard-to-find units have been completely refurbished and tested by CMD. Ideal for repairs or simply as a spare for future use.

POWER1571

1571 Internal Power Supply

\$39.95

\$9.95

CMD HD SERIES POWER SUPPLY Manufactured to meet our standards. these supplies are a direct replacement for any CMD hard drive and make a great heavy duty replacement for RAMLink v.1, 1541-il or 1581 drive. They are also a universal power supply with detachable IEC cord for easy switch over to foreign power cord. Supports voltages from 110V to 240V.

CMD HD Replacement Power Supply

RAMLINK V.2, FD-2000 on FD-4000 Power Supply Replacement supplies straight from our production line. These supplies are the same units that we continue to use in our production of these popular storage devices.

CABLES

Serial Cables

6 ft. Serial Cable Extension

3 ft. Serial Cable

POWERRI

CMD FD Series/RAMLink v.2 Power Supply \$14.95

Video Digitizer allows you to capture a video signal and save it as an electronic image. Images may be captured from a Video Camera, VCR or Camcorder. The Video Digitizer package consists of the

Video Digitizer cartridge, Utilities disk and English manual. The utilities disk includes: Digison (Full featured paint program/Graphic converter), Digifox (Digitizer Program) and DigiMulti (Color Video Capture System).

With The Video Digitizer, you will begin building your own graphics and clip art library in no time. Imagine adding your own graphics to your documents, newsletters, cards and banners. So if you're serious about producing professional looking documents and are tired of seeing the same old canned graphics, pick up your own Video Digitizer today!

DIGITIZER

Video Digitizer Cartridge

Video Digitizer Produced by Scanntroniks, one

of Germany's most recognized Commodore peripheral

manufacturers, the Video Digitizer is loaded with features

that you would expect to see only on high end PC's. The

\$189.00

Videofox This unique program offers video enthusiasts a number of powerful features which range from video titling to animations and the ability to create small trick films. In addition to the many fading effects, Videolox also offers a variety of scrolling effects, movements and colors, all of which make a great addition to home

videos, demonstration videos or any video presentation. Ideal for the hobbyist or any want-to-be producer. The Videofox system is also produced by Scanntroniks and has become the standard for video effects and titling

VIDEOFOX

in Germany. Includes: Videolox software and English manual translation. Video Titling and Special Effects Program

GRANIAN



SERIAL3

SERIALEXT

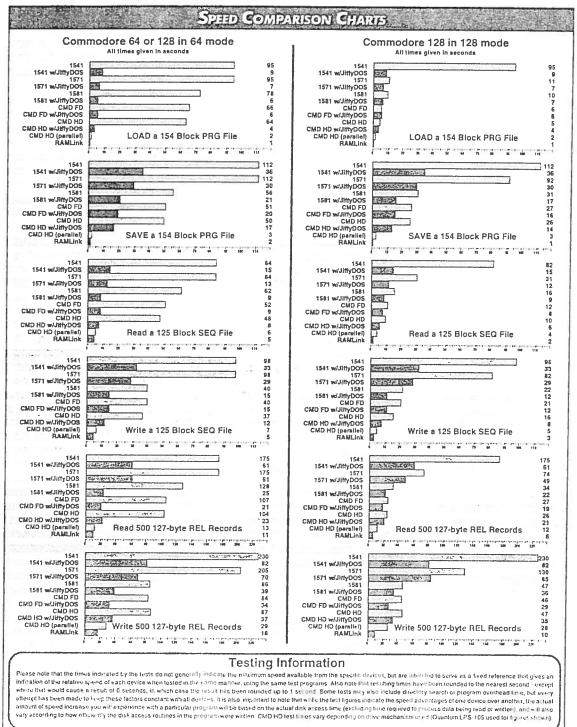
Monitor Cables RGBDB9-9 C128 RGB 80 cof. Cable, DB9-DB9 \$9.95 RGBDB9-8 C128 RGB 80 cof. Cable, DB9-DIN8 \$13.95 RGBDB9-RCA C128 RGB 80 cof. Monocrome Cable \$13.95 DIN8-3RCA 40 Column Color, Separate Luma/Chroma \$9.95 DIN5-3RCA** 40 Column Color/Mono Single Video Input \$19.95 **DIN8-6** 40 Column Color, DIN 8 - DIN 6 (1902A) \$15.95

Use this cable for C-64's or 64-C's with 8 pin din connector and 40 color composite monitors that have separate Luma and Chroma inputs. It is also used with C-128's as the composite cable if you have a monitor with separate Luma and Croma inputs.

This cable is a catch all and may be used for most any application. It is used on C-64 or C-128 computers with 5 or 8 pin DIN video connection and any composite monitor with a single composite input or with any monochrome monitor.

CMD Catalog '96

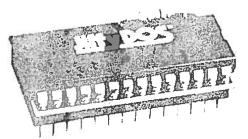
Orders: 1-800-638-3263 Info: 1-413-525-0023





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10th Anniversary

What Is JiffyDOS?

JiffyDOS is a Disk Operating System (DOS) enhancement which gives your C-64 or C-128 the disk access speed it has always needed. A chip-forchip replacement for the Kemal ROM in your computer and the DOS ROM in your disk drive(s), JiffyDOS achieves levels of performance and compatibility unmatched by other disk speed-enhancement products. Outstanding speed, solid compatibility with virtually all hardware and software, and a new set of desperately-needed commands and features, gives your system a new lease on life and the power to compete with today's newer, more-expensive machines.

JiffyDOS should not be confused with Cartridges, Turbo ROMs, Burst ROMs or "Parallel" systems. Ultra-high-speed multi-line serial technology enables JiffyDOS to outperform these products without any of their inherent disadvantages. JiffyDOS leaves all ports on your computer open, works with virtually all software, speeds up PRG, SEQ, REL and USR files, and does not require any extra cabling. Owning JiffyDOS also gives you access to some of the best product support available.

Convenience

JiffyDOS does more than just enhance speed; its built-in commands and features make using your computer easier and more enjoyable. The built-in commands enable you to perform everyday disk-housekeeping chores without having to type in long BASIC instructions. With JiffyDOS, you can format disks, load, save, scratch and rename files with just a few keystrokes. In addition, a full complement of convenience features makes things even easier. These features include: Directory listing to screen or printer (memory not affected), function key definitions that work with the directory listing (eliminates the need to type lengthy file names), a screen dump, built-in file copier and more.

Compatibility

JiffyDOS is the most compatible speed-enhancement system available. Designed on the premise that compatibility is just as important as speed, JiffyDOS loads and operates with virtually all software (including copy-protected commercial programs), and is compatible with all Commodore 64/128 hardware and peripherals. No other disk drive speed enhancement system can come close to working with as much hardware and software. In addition, we back up our claims with a 30-day, money-back compatibility guarantee.

Installation and Support

JiffyDOS is surprisingly easy to install. Clearly-written, illustrated, step-by-step instructions are provided to guide you through the process of installing the JiffyDOS ROMs in your computer and disk drive(s). Even those who have never seen the inside of a computer before can complete the installation in less than one hour and will find the experience interesting and rewarding. If any questions happen to arise, our product support staff is on hand to provide you with the help you need.

Benefits of JiffyDOS

Load programs and data up to 15x faster - JiffyDOS speeds the loading of BASIC programs, public-domain software, data fites, and virtually all commercial software – including programs that are heavily copy-protected Unlike cartridges, JiffyDOS becomes an integral part of your system, and cannot be rendered ineffective by complex multiple-file load sequences or copy-protection schemes. JiffyDOS keeps working even after a program is up and running – enabling you to load data, overlays and program modules at maximum speed.

Save programs and data up to 4x faster - Faster saving with JiffyDOS is automatic and works for you at all times - even from within other programs. This means that all your data files and programs will be saved at maximum speed. Unlike other products that boast quicker saving. JiffyDOS does not bypass any error checking routines.

Speed up PRG, SEQ, REL and USR file access - Perhaps the most important feature of JiffyDOS is its ability to speed up all disk accesses - including the reading and writing of PRG, SEQ, USR, REL and direct-access files. Unlike Cartridges and Turbo ROMs, JiffyDOS is effective in speeding up the many disk-intensive programs that use these file types - including databases, spreadsheets, word processors, and MIDI software.

Fast formatting on 1541 and 1571 - A JiffyDOS-equipped 1541 will format a disk in about 21 seconds. A 1571 with JiffyDOS will format one side in 21 seconds and both sides in about 42 seconds – even with a C-64 or a C-128 in 64 mode! As opposed to the 9-second format utilities, the JiffyDOS format is built in, will work from within programs, and does not bypass the error checking that ensures you of a properly formatted disk.

Multiple Drive Support - JiffyDOS is the only system that is able to simultaneously speed up 1541, 1571, 1581 and CMD HD and FD drives with C-64's, 64C's, SX-64's, and C-128's in both 64 and 128 modes. With JiffyDOS, a 1541 becomes faster than a stock 1571 in 128 mode. JiffyDOS-equipped 1571 and 1581 drives become even faster than they already are with a C-128 in 128 mode!

Quick Printer Output Toggle - A simple 3 key command that switches output from screen to printer and back. This eliminates the need to type the complicated OPEN4,4:CMD4 and PRINT#4:CLOSE4 command sequences.

Two Drive File Copier - Copy PRG, SEQ, REL, and USR files between two drives including CMD's HD hard drives, FD drives, RAMLink and Commodore REU's. This copier is great for back-up and convenient copying of files between devices.

Adjustable Sector Interleave - Allows you to optimize disk-access performance, even with hard-to-speedup software.

Text Screen Dump - Automatic screen mode recognition and printing of uppercase/graphics & lowercase characters. A convenient way to quickly create hard copy of text files, program listings, etc.

Built-in DOS Wedge Commands Display Error Channel Copy/Combine file(s) eī Initialize drive New (format) Disk 92 Rename Se Scratch (delete) file(s) ಆರು Reset drive Validate file ev. Display directory Set default device number Load a BASIC oronam Load and Run a BASIC program % [17] Load an ML program 16 Save a BASIC program Additional JiffyDOS Wedge Commands Disable 1541 head bump PD 12 List BASIC program from disk Disable JiffvOOS function keys 27 Set sector gap (interleave) Un-new BASIC program er Lock/unlock file Toggle printer/screen output GP. @T 14 List text file from disk ex Set destination drive for file conier Сору 📾 CTRL-A Mark/Unmark all files for copying w Mark/Unmark one file for copying CTRL Verify program Load and execute ML program CTRL-D Toggle default drive Load and Run first disk program RUN

30 Day Compatibility Guarantee

If you are dissatisfied because of incompatibility with any of your hardware or software, simply contact CMD within 30 days of purchase for authorization to return your JiffyDOS for refund.

CMD Catalog '96

Orders: 1-800-638-3263 Info: 1-413-525-0023



Power-Backed, Expandable RAM-Based Disk Drive for the C-64 and C-128

- Provides up to 16 Megabytes of ultra-fast RAM disk storage and a Real-Time Clock option
- · Operates up to 400 times faster than a 1541
- Nonvolatile retains programs and data even when the computer is turned off
- Plugs into cartridge port and responds to all standard disk drive commands
- Includes cartridge pass-thru port and a RAM port for Commodore REU's or GEORAM

What is RAMLink?

Having been described as *...a device so clever, so slick and so thoroughly neat that it can only be described as revolutionary' (-Conrad Tillman, Geoworld), RAMLink incorporates a powerful mix of today's latest technology with CMD's proprietary RL-DOS to provide an expandable, power backed RAM disk.

RAMLink is far more than a "REU" or a power back up. RAMLink brings a fresh new concept in high speed storage, employing the latest technology and a proven operating system packed with features. It is truly the most powerful and versatile storage system ever created for a Commodore.

Expandability, Flexibility and Capacity

In its base form, RAMLink is a compatibility and power backup interface for Commodore 17xx series REU's and GEORAM. In this state RAMLink has no internal RAM and is reliant upon the RAM capacity of your REU. Unlike other RAM devices, when the computer is switched off RAMLink's own power supply maintains the memory in the REU.

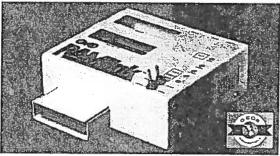
RAMCard is the internal expansion board used to transform the RAMLink interface into its own self contained power/battery backed RAM disk. RAMCard is a 'daughter' board which mounts internally in RAMLink and has four industry standard SIMM sockets on it. Each socket is capable of housing either a 1 Mb SIMM for capacities up to four megabytes or a 4 Mb SIMM for capacities up to sixteen megabytes. With the installation of the optional RAMCard, RAMLink becomes an expandable RAM disk with capacities up to 16 MB. You may also combine the use of RAMCard with a REU. The optional Real-Time Clock time and date stamps files are stored in RAMLink.

RL-DOS Makes it Work

Probably the most important feature in RAMLink is its built-in operating system, RL-DOS, which originates from the HD-DOS operating system used in the CMD hard disk drives. RL-DOS actually creates a RAM-based disk drive which is fully partitionable. Partitions are a means of organizing large amounts of memory by breaking it up into smaller segments. There are several types of partitions to choose from. Emulation mode partitions mimic 1541, 1571 and 1581 disk drives and provide great compatibility. Native mode partitions provide the most versatility because they can range in size from 256 blocks to 16 MB and incorporate MS-DOS style subdirectories.

Additional Features

In addition to the RAM Port, RAMLink provides a Pass-Thru port which can be used with many commercial utility cartridges and interfaces. RAMLink also has a parallel port to provide parallel access to CMD HD Series hard drives, making it capable of transfer speeds far greater than any other drive ever available for the Commodore computer. A version of the JiffyDOS Kemal is also built into RAMLink which makes executing frequently used commands easy and convenient.



Benefits

Compatibility With Existing Software - Since RAMLink is seen as a standard disk drive on your system and accepts all standard Commodore DOS commands, you'll be able to use it with much more software than other RAM devices. This same compatibility makes it is easy for you to start using RAMLink right away.

Ultra-fast Operating Speed - Because RAMLink is essentially a disk drive based in RAM, it operates very quickly, delivering speeds up to 20 times faster than a 17xx series REU using Commodore RAMDOS, and up to 400 times faster than a standard Commodore 1541 disk drive. You'll load and save programs at blindingly fast speeds, and access data files so quickly that you'll never want to go back to floppies again.

GEOS - Everyone knows that RAM disks transform GEOS into a faster and much more usable environment, and no other RAM device performs as well as RAMLink under GEOS. Have instant access to all of your GEOS applications, even boot GEOS from RAMLink in seconds using CMD's geoMakeBoot utility (see GEOS section).

Power Backup - Since RAMLink has its own power supply, it retains programs and files stored in its RAM even when you turn off your computer! And since it draws no additional power from your computer, it won't lead your computer's own power supply to an early grave.

Optional Battery Backup - An optional battery pack is also available for RAMLink. When attached, it is constantly recharged by the power supply and is there to protect you when the lights go out! No need to worry about loss of data if you suffer a power loss.

Built-in JiffyDOS Kernal Routines - The computer portion of JiffyDOS is built directly into RL-DOS, allowing RAMLink to take advantage of JiffyDOS-equipped disk drive. (See the hardware section for details on JiffyDOS.)

Partitions and Subdirectories - Keep your programs and data organized with up to 31 separate partitions and an unlimited number of subdirectories. A full set of DOS commands make it easy to move between partitions and subdirectories, and to find and view files anywhere on RAMLink.

CMD Native Partitions - Give your programs the ability to store more data than ever before with the extended storage capacity provided by CMD Native partitions, which can be as large as the amount of available RAM!

Emulation Modes - Use more software on your RAMLink with the increased level of compatibility provided by partitions which mimic the track and sector layout of standard Commodore disk drives (1541, 1571 and 1581), and which accept the commands specific to those devices.

Autobooting - RAMLink's unique Auto-File feature will allow you to run any program from any device on your system at power-up; even on a 64 or 128 in 64 mode! This means you can start using a program just seconds after tuming on your computer without entering a single command! And it you use a Commodore 128 computer, you can even define separate Auto-Files for 64 and 128 modes.

Device Swapping - Our unique SWAP feature allows you to easily exchange device numbers with your current floppy disk drives using device numbers 8 or 9. This allows you easy access to RAMLink when using programs which have limited device number support.

Simple Utilities - A complete set of easy-to-use utility programs for partitioning and copying files and whole disks are included free with RAMLink. Software for GEOS compatibility is also free of charge.

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CMD Catalog '96

For Commodore 64 and 128 Computers

- Fastest, most affordable, easy-to-use form of mass storage for the Commodore 64 and 128
- Standard capacities range from 40 MegaBytes up to 2 GigaBytes – house up to 12,048 floppy disks
- . Up to 100 times faster than a 1541 disk drive
- Connects and operates just like a standard disk drive
- Reliable and compact (about the same size as a 1581)
- Compatible with more hardware and software than any other hard drive ever made for the C64/128

Hard Drive Performance

CMD Hard Drives are the fastest disk-based storage devices available for the C-64 and C-128. Connected via the serial bus to a completely stock computer, HD Series hard drives outperform all other serial drives (including the 1581). If your computer is equipped with JiffyDOS, the HD delivers unbelievable speed, in most instances outperforming even older parallel interfaced systems. When connected to the parallel port on CMD's RAMLink, HD Series drives become as fast as the hard drives found on newer, more expensive machines, transferring data at up to 100 Kbytes/second in 128 fast mode and over 50 Kbytes/second in 64 mode.

Compatibility

Our specially designed operating system (HD DOS) gives HD series drives the ability to work with nearly all commercial software. This proprietary DOS fully supports all Commodore DOS commands, including block reads and writes, memory access commands, fast serial and burst commands. Complete compatibility with GEOS and CP/M coupled with the HD's ability to use partitions which emulate the popular 1541, 1571, and 1581 disk drives, result in a level of compatibility unparalleled in any other hard drive system available for C-64 and C-128 computers. Additionally, the operating system is stored on the hard drive itself - not in ROM. This allows DOS upgrades to be installed quickly and easily without opening your drive.

Ease Of Use

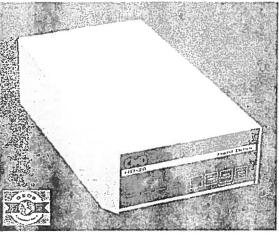
From the moment you begin using the HD, the simplicity of design and operation become apparent. We provide you with the tools to easily organize and access the large amounts of data you will be storing. Partitioning and system defaults are handled effortlessly through our HD-TOOLS software. GEOS compatibility is accomplished easily by installing a new CONFIGURE file on your GEOS boot disk. Utilities have been provided to automatically set the GEOS clock from the HD's Real-Time Clock and to quickly navigate through and copy files between the HD's partitions. Easy-to-remember commands allow MS-DOS style subdirectories to be created within native mode partitions and within other subdirectories, and enable easy movement to other areas within the drive.

Future Expandability

Another important feature of CMD hard drives is that they are designed to be part of your future computer system. HD Series drives are based on SCSI and are equipped with an external SCSI port which allows them to be connected to many other types of computers (such as IBM, Macintosh, Amiga or Atari) using standard SCSI interfaces.

Support

One of the most important benefits you'll receive as an owner of a CMD product is support. Prompt and courteous phone and telecommunications service support are part of what makes CMD unique in the Commodore marketplace. We'll also support you by continuing to improve and upgrade our products, and by providing new hardware and software solutions.



Benefits

Partitions and Subdirectories - Keep your programs and data organized with up to 254 separate partitions and an unlimited number of subdirectories. A full set of DOS commands make it easy to move between partitions and subdirectories, and to find and view files anywhere on the drive.

CMD Native Partitions - Give your programs the ability to store more data than ever before with the extended storage capacity provided by CMD Native partitions, which can be up to 16 Megabytes each!

Emulation Modes - Use more software on your CMD HD with the increased level of compatibility provided by partitions which mimic the track and sector layout of standard Commodore disk drives (1541, 1571 and 1581), and which accept the commands specific to those devices.

BBS Capabilities - Perfect for BBS use! With up to 254 partitions you can expand your system with up to 4.4 Gigabytes of storage space, making the CMD HD the drive you'll never outgrow. Compatible with all BBS programs, many of which have special support such as automatic setting of time and date. With JiftyDOS, it's the fastest BBS HD around, and with RAMLink it moves you into a whole new realm of performance.

Device Swapping - Our unique SWAP feature allows you to easily exchange device numbers with your current floppy disk drives using device numbers 8 or 9. This allows you easy access to the HD when using programs which have limited device number support.

JiffyDOS Compatible - In addition to being fully compatible with standard serial and fast serial protocols, HD Series drives have built-in JiffyDOS compatibility to provide additional speed on JiffyDOS-equipped computers.

Time and Date Stamping - Keep track of when files were last changed and make incremental backups easily! The HD uses a built-in Real-Time Clock chip to place a date and time stamp on each file as it is created or modified, and you can make use of the time and date when viewing and copying files.

HD Series Drive Additional Commands

These new commands provide access to special HD features.

directory name Make New Subdirectory

md:directory name
rd:directory name
rd:directory name
cp<partition#>
cP+chr\$(partition#)
g-p<partition#>
g-p+chr\$(partition#)
s-c<SCSI command>
t-ra
t-wa<new time>

t-wa<new time> t-rb t-wb<new time>

t-rd t-wd<new time> Remove Subdirectory
Change to Subdirectory
Change to partition (ASCII)
Change to partition (ASCII)
Get information about partition (binary)
Get information about partition (binary)
Send SCSI commands to controller
Read Real-Time Clock (ASCII)
Write Real-Time Clock (ASCII)
Write Real-Time Clock (BCD)
Read Real-Time Clock (BCD)

Write Real-Time Clock (decimal)

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CMD Catalog '96



High Capacity 3.5" Floppy Drive

- Amazing 1.6 MB High Density /800K Double Density Modes
- 20% faster than a 1581 on a stock computer and up to 1500% faster on JiffyDOS equipped systems
- Emulate multiple 1541/71/81 disks for compatibility or use Native Mode partitions for greater flexibility
- Configurable as device 8 through 15 plus front panel SWAP button for instant device 8 or 9 selection
- Optional Real-Time Clock (RTC) stamps time and date on files and automatically sets GEOS clock
- FD-2000 drives offer an innovative compact design (actual dimensions 7 5/8"L x 4 3/4"W x 2 3/8"H)

CMD's FD-2000 3.5" Floppy Drives

While MS-DOS and Maciniosh users struggle with 1.44 MB disks and Amiga users are frustrated by a wimpy 880K, Commodore 64 and 128 users soar to new heights with CMD's FD Series disk drives. CMD offers an amazing 1.6 MB alternative at an attractive price. FD Series drives offer users far better compatibility than even Commodore's own 1581 drive, an easy-to-use operating system, and all of the utilities anyone could possibly dream of to run and maintain this powerful new device. Fast, compact and reliable, the FD-2000 is great for virtually any application!

Capacity and Formatting

The FD-2000 is compatible with Double-Density disks (800K) in both CMD and 1581 formats, and High Density disks (1.6 MB) commonly used at 1.44 MB on other computer platforms. Note that due to a more efficient formatting method, the FD-2000 provides a higher capacity than the same disk formatted on an IBM compatible or Macintosh computer.

FD Series drives are capable of reading and writing three basic formats: 1581 (800K), CMD (800K, 1.6 MB) and MS-DOS (720K, 1.44 MB). The first format, 1581, is rather obvious - FD's can read and write standard 1581 disks, making it an ideal replacement for 1581 drives.

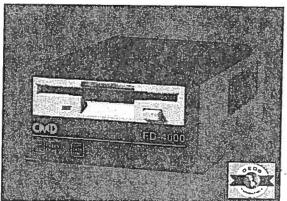
FD -2000 drives can also format disks in 720K, 1.44 MB, and 2.88 MB for use on MS-DOS machines through the use of SOGWAP's Big Blue Reader. With the ability to read and write MS-DOS disks, the FD is ideal for sharing files between Commodore and MS-DOS computers. (The Big Blue Reader is available from CMD as a separate product.)

CMD FD Partitioning

The FD utilizes the same powerful operating system found in CMD's HD Series hard drives and RAMLink. This unique and powerful DOS allows you to create multiple 1541, 1571 and 1581 emulation mode partitions which insure the highest levels of compatibility with existing commercial 64 and 128 software. Each of these partitions identically maps the track and sector layout and BAM placement of the disk drive being emulated. This means that most software which was written to run, for example, on a 1541, can run in a 1541 emulation mode partition on the FD-2000.

In addition, there are also Native Mode partitions. Although not quite as compatible as emulation mode partitions, Native Mode partitions work well with most software, and can be as large as the capacity of the disk (800K, or 1.6 MB). You may also use MS-DOS style subdirectories to organize your data within these often large partitions. Native Mode partitions are ideal for storing large amounts of data or graphics.

But don't let all of this talk about partitions scare you, partitions are easily created, deleted, and manipulated through FD-TOOLS; an easy-to-use utility developed specifically for the FD and the novice computer user. Partitions are merely a way to organize larger amounts of data. Simply think of a partition as being a piece of pie—a smaller more manageable portion of a larger object.



Compatibility & Reliability

The FD is the most compatible 3.5° disk drive ever developed for Commodore computers. Why? Because of CMD's operating system. As you can see in the previous paragraphs, the FD has the flexibility of emulating Commodore's own 5.25° disks, and as a result, some software written to run only on these disk formats can run on the FD - but not on Commodore's own 1581. FD's are also great for use with GEOS, and with geoMakeBoot (see the GEOS products section) you can even boot GEOS directly from the FD

FD's have also proven far more reliable than the old 1581 drives, due to the use of a modern disk controller chip and CMD's time-tested advanced operating system. Additionally, FD's also use new high-quality, low-power drive mechanisms. The result is a drive that runs cooler and quieter than the 1581, and without reliability problems which could cause the loss of important and valuable data.

Special Features

FD-2000 drives are equipped with several special features. Probably the most noticeable of these features is CMD's proprietary SWAP button. This feature allows you to "swap" instantly from the current device number to device 8 or 9. FD's also come complete with an easy access dip switch which allows for configuration as any device from 8 through 15.

Tired of setting the GEOS clock, or trying to figure out which file is the most current? Well, the Real-Time-Clock (RTC) option puts an end to that. FD's are available with an optional RTC pre-installed on the controller board. This option is also available as an add-on that you can install yourself later on for a slightly higher cost.

OK, you're sold but you think to yourself, "Where can I put another drive?" Well, don't start tearing your system apart yet. FD drives are designed to be amazingly compact and use a simple wall mount power supply which helps to minimize cable clutter. Housed in a sturdy metal case that measures only 7 5/8*L x 4 3/4*W x 2 3/8*H, these drives can fit into almost any system regardless of any space constraints that you may have.

Copying & Partitioning Software

All FD drives come complete with a comprehensive collection of copy utilities. Included on the FD utilities disk are: MCOPY, a whole disk copier; FCOPY, a two drive file copier; and BCOPY, a powerful backup utility that allows HD and RAMLink owners to back up large partitions or entire drives to multiple disks. BCOPY can also be used to make backups of FD disks to a 1541 or 1571 disk drive. These copiers handle virtually all of the copying needs of the average user.

For formatting and partitioning, the FD-TOOLS program provides a simple easy-to-use menu-driven environment. You'll format and partition your disks quickly without having to wade through pages of documentation.

So now that you know just what the FD-2000 is all about, the decision is up to you. Do you want to struggle with low capacity, technologically outdated disk drives? Or do you want to become one of the thousands of Commodule users who have made the decision to keep their system current and productive? It's your choice!

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\$60.00-\$149.99	\$7.50	\$21.00	CALL	\$28.00	\$12.00	CALL
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